091-33

Mathematical Reviews

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Annual Index — 1989

Subject Index 60 — 94

TABLE OF CONTENTS

Subject Index 60 — 94 . . . . 903 — 1638
1980 Subject Classification (1985 Revision) . . . . S1 — S32

Index of Mathematical Papers Volume 21
American Mathematical Society
Providence, Rhode Island USA
ISSN 0025-5629

1980 Mathematics Subject Classification (1985 Revision)

00 General
01 History and biography

03 Mathematical logic and foundations
04 Set theory
05 Combinatorics
06 Order, lattices, ordered algebraic structures
08 General mathematical systems

11 Number theory
12 Field theory and polynomials
13 Commutative rings and algebras
14 Algebraic geometry
15 Linear and multilinear algebra; matrix theory
16 Associative rings and algebras
17 Nonassociative rings and algebras
18 Category theory, homological algebra
19 *K*-theory

20 Group theory and generalizations
22 Topological groups, Lie groups

26 Real functions
28 Measure and integration
30 Functions of a complex variable
31 Potential theory
32 Several complex variables and analytic spaces
33 Special functions
34 Ordinary differential equations
35 Partial differential equations
39 Finite differences and functional equations

40 Sequences, series, summability
41 Approximations and expansions
42 Fourier analysis
43 Abstract harmonic analysis
44 Integral transforms, operational calculus
45 Integral equations
46 Functional analysis
47 Operator theory
49 Calculus of variations and optimal control; optimization

51 Geometry
52 Convex sets and related geometric topics
53 Differential geometry
54 General topology
55 Algebraic topology
57 Manifolds and cell complexes
58 Global analysis, analysis on manifolds

60 Probability theory and stochastic processes
62 Statistics
65 Numerical analysis
68 Computer science

70 Mechanics of particles and systems
73 Mechanics of solids
76 Fluid mechanics
78 Optics, electromagnetic theory

80 Classical thermodynamics, heat transfer
81 Quantum mechanics
82 Statistical physics, structure of matter
83 Relativity
85 Astronomy and astrophysics
86 Geophysics

90 Economics, operations research, programming, games
92 Biology and behavioral sciences
93 Systems theory; control
94 Information and communication, circuits

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60–XX Probability theory and stochastic processes {For additional applications, see 11Kxx, 62–XX, 90–XX, 92–XX, 93–XX, 94–XX. For numerical results, see 65U05.}

60–00 Handbooks, dictionaries, and other reference works

Items with secondary classifications in 60–00

Prabhu, N. U. A bibliography of books and survey papers on queueing systems: theory and applications. **89d:60186**
Ross, Ian C. (*with* Tukey, John W.) ★ Index to statistics and probability: locations and authors. **89a:62001d**
— (*with* Tukey, John W.) ★ Index to statistics and probability: permuted titles. **89a:62001c**
Tukey, John W. ★ Index to statistics and probability: the citation index. **89a:62001b**
— *see also* **Ross, Ian C., 89a:62001c** *and* **89a:62001d**

60–01 Elementary exposition; textbooks

Billingsley, Patrick ★ Prawdopodobieństwo i miara. (Polish) [Probability and measure] **89b:60001**
Blake, Ian F. ★ An introduction to applied probability. **89a:60001**
Brémaud, P. ★ An introduction to probabilistic modeling. **89i:60001**
Cacoullos, T. ★ Exercises in probability. **89k:60001**
Chacon, Paul *see* **Iranpour, Reza, 89i:60002**
Dürr, Walter (*with* Mayer, Horst) ★ Wahrscheinlichkeitsrechnung und Schließende Statistik. (German) [Calculus of probabilities and statistical inference] **89k:60002**
(Engelbert, H. J.) *see* **Shiryaev, A. N., 89i:60003**
Iranpour, Reza (*with* Chacon, Paul) ★ Basic stochastic processes. **89i:60002**
(Kac, Mark) *see* **Iranpour, Reza, 89i:60002**
(Kizeweter, Krystyna) *see* **Billingsley, Patrick, 89b:60001**
(Manthey, R.) *see* **Shiryaev, A. N., 89i:60003**
Mayer, Horst *see* **Dürr, Walter, 89k:60002**
Métivier, Michel ★ Probabilités. (French) [Probability theory] **89m:60001**
O'Hagan, Anthony ★ Probability. **89m:60002**
Pfanzagl, J. ★ Elementare Wahrscheinlichkeitsrechnung. (German) [Elementary probability theory] **89h:60001**
(Roguski, Janusz E.) *see* **Billingsley, Patrick, 89b:60001**
(Schmidt, Wolfgang Michael) *see* **Shiryaev, A. N., 89i:60003**
Shiryaev, A. N. ★ Wahrscheinlichkeit. (German) [Probability] **89i:60003**
Stoyanov, Ĭordan M. ★ Counterexamples in probability. **89f:60001**

Items with secondary classifications in 60–01

(Danilov, Yu. A.) *see* **Horsthemke, Werner, 89d:82002**
(Emel'yanov, V. I.) *see* **Horsthemke, Werner, 89d:82002**
Ferrari, Pablo Augusto ★ Passeios aleatórios e redes elétricas. (Portuguese) [Random walks and electrical networks] **89k:60121**
Flusser, Peter Theory, simulation and reality. (Not in MR)
Horsthemke, Werner (*with* Lefever, René) ★ Индуцированные шумом переходы. (Russian) [Noise-induced transitions] **89d:82002**
Körner, T. W. ★ Fourier analysis. **89f:42001**
Lefever, René *see* **Horsthemke, Werner, 89d:82002**
(Mikhaĭlov, A. S.) *see* **Horsthemke, Werner, 89d:82002**
(Zubarev, D. N.) *see* **Horsthemke, Werner, 89d:82002**

60–02 Advanced exposition (research surveys, monographs, etc.)

Anisimov, V. V. ★ Случайные процессы с дискретной компонентой. (Russian) [Random processes with a discrete component] **89m:60003**
Chow, Yuan Shih (*with* Teicher, Henry) ★ Probability theory. **89e:60001**
Dellacherie, C. (*with* Meyer, P.-A.) ★ Probabilities and potential. C. **89b:60002**
— (*with* Meyer, P.-A.) Erratum: *Probabilités et potentiel. Chapitres XII–XVI* [Hermann, Paris, 1987; MR 88k:60002]. **89j:60001**
Meyer, P.-A. *see* **Dellacherie, C., 89b:60002** *and* **89j:60001**
(Norris, James) *see* **Dellacherie, C., 89b:60002**
Prokhorov, Yu. V. (*with* Rozanov, Yu. A.) ★ Теория вероятностей. (Russian) [Probability theory] **89a:60002**
Rozanov, Yu. A. *see* **Prokhorov, Yu. V., 89a:60002**
Teicher, Henry *see* **Chow, Yuan Shih, 89e:60001**
Zolotarev, V. M. ★ Современная теория суммирования независимых случайных величин. (Russian) [Contemporary theory of the summation of independent random variables] **89a:60003**

Items with secondary classifications in 60–02

Borovskikh, Yu. V. The theory of U-statistics in Banach spaces. (Russian) **89f:62010**
Jacod, Jean (*with* Shiryaev, A. N.) ★ Limit theorems for stochastic processes. **89k:60044**
Meyer, P.-A. Fock space and probability theory. **89c:60050**
Moore, Marc Inférence statistique dans les processus stochastiques: aperçu historique. (English summary) [Statistical inference in stochastic processes: a historical overview] **89g:62007**
Ruzsa, Imre Z. (*with* Székely, Gábor J.) ★ Algebraic probability theory. **89j:60006**
Sharpe, Michael ★ General theory of Markov processes. **89m:60169**
Shiryaev, A. N. *see* **Jacod, Jean, 89k:60044**
Stoyanov, Ĭordan M. ★ Counterexamples in probability. **89f:60001**
Székely, Gábor J. *see* **Ruzsa, Imre Z., 89j:60006**

60–03 Historical (must also be assigned at least one classification number from Section 01)

Kesten, Harry Correction: "The influence of Mark Kac on probability theory" [Ann. Probab. **14** (1986), no. 4, 1103–1128; MR 88j:60002]. **89e:60002**

Items with secondary classifications in 60–03

(Bernoulli, Jacob, I) *see* **Yushkevich, A. P., 89a:01025**
(Chebyshev, P. L.) *see* **Ermolaeva, N. S., 89d:01038**
(Cohen, J. W.) *see* **Le Gall, Pierre, 89m:60239**
Dale, A. I. On Bayes' theorem and the inverse Bernoulli theorem. (French and German summaries) **89j:01029**
Ermolaeva, N. S. An unpublished course on probability theory by P. L. Chebyshev. (Russian) **89d:01038**
Gani, J. M. Adventures in applied probability. **89m:01089**
(Gauß, Carl Friedrich) *see* **Sheĭnin, O. B., 89k:01021**
(Gnedenko, B. V.) *see* **Grodzenskiĭ, S. Ya., 89a:01062**
Grodzenskiĭ, S. Ya. ★ Андрей Андреевич Марков. 1856–1922. (Russian) [Andreĭ Andreevich Markov. 1856–1922] **89a:01062**
Hald, A. On de Moivre's solutions of the problem of duration of play, 1708–1718. **89d:01032**
Ineichen, Robert Dante-Kommentare und die Vorgeschichte der Stochastik. (English and French summaries) [Dante commentaries and the prehistory of stochastics] **89i:01011**
Jorland, Gérard The Saint Petersburg paradox 1713–1937. **89d:01033**
Kendall, David G. Applied probability—past, present and future. **89m:01062**
Le Gall, Pierre Some comments on the work of J. W. Cohen and new results in the theory of queueing networks. **89m:60239**
(Malyshev, A. V.) *see* **Grodzenskiĭ, S. Ya., 89a:01062**
(Markov, Andreĭ Andreevich) *see* **Grodzenskiĭ, S. Ya., 89a:01062**
(de Moivre, Abraham) *see* **Hald, A., 89d:01032**
Rozanov, Yu. A. Some aspects of prediction theory. (Russian) **89g:60148**
Sheĭnin, O. B. C. F. Gauss and the χ-square distribution. **89k:01021**
(Suetin, P. K.) *see* **Grodzenskiĭ, S. Ya., 89a:01062**
Yushkevich, A. P. The first edition of J. Bernoulli's *Ars conjectandi* (on the 300th anniversary of the law of large numbers). (Russian) **89a:01025**

Items listed otherwise than by author

Bibliography:
Markov, Andreĭ Andreevich *see* **Grodzenskiĭ, S. Ya., 89a:01062**
Biography:
Markov, Andreĭ Andreevich *see* **Grodzenskiĭ, S. Ya., 89a:01062**

60–04 Explicit machine computation and programs (not the theory of computation or programming)

Fox, Bennett L. (*with* Glynn, Peter W.) Computing Poisson probabilities. (Not in MR)
Glynn, Peter W. *see* **Fox, Bennett L.**, (Not in MR)

Items with secondary classifications in 60–04

Bhanot, Gyan The Metropolis algorithm. **89e:65006**

60–06 Proceedings, conferences, etc.

(Azéma, J.) *see* **Seminar: Probability Theory, 89c:60005; 89d:60001** *and* **89d:60002**
(Bokuchava, I. V.) *see* **School-Colloquium: Probability Theory and Mathematical Statistics, 89b:60007** *and* **89b:60008**
(Boxma, O. J.) *see* **Queueing theory and its applications, 89e:60004**
(Chung, Kai Lai) *see* **Seminar: Stochastic Processes, 89j:60005**
(Çinlar, E.) *see* **Seminar: Stochastic Processes, 89j:60005**
(Cohen, J. W.) *see* **Queueing theory and its applications, 89e:60004**
(Davies, I. M.) *see* **Stochastic mechanics and stochastic processes, 89c:60006**
(Gani, J. M.) *see* **Celebration of applied probability,** (Not in MR)
(Getoor, R. K.) *see* **Seminar: Stochastic Processes, 89j:60005**
(Glover, Joseph) *see* **Seminar: Stochastic Processes, 89j:60005**
(Grossmann, Wilfried) *see* **Probability theory and mathematical statistics with applications, 89c:60002**
(Hennequin, P. L.) *see* **School: Probability Theory, 89i:60005**
(den Hollander, F.) *see* **Seminar: Probability and Physics, 89e:60005**
(Hüsler, Jürg) *see* **Extreme value theory, 89j:60002**
(Ivchenko, G. I.) *see* **Probabilistic problems in discrete mathematics, 89j:60003**
(Kac, Mark) *see* **Seminar: Probability and Physics, 89e:60005**
(Karimov, Dzh. Kh.) *see* **Investigations in degenerate differential equations and limit theorems of probability theory, 89g:60002**
(Kinkladze, G. N.) *see* **School-Colloquium: Probability Theory and Mathematical Statistics, 89c:60004**
(Kõrezlioğlu, Hayri) *see* **Stochastic analysis and related topics, 89b:60010**
(Korolyuk, V. S.) *see* **Asymptotic methods in the investigation of stochastic models, 89b:60003**
(Lévy, Paul) *see* **Colloquium: Stochastic Processes, 89g:60001**
(Lin'kov, Yu. N.) *see* **Theory of random processes, 89b:60011**
(Maassen, Hans) *see* **Seminar: Probability and Physics, 89e:60005**
(Marr, G. I.) *see* **School-Colloquium: Probability Theory and Mathematical Statistics, 89b:60007**
(Métivier, Michel) *see* **Stochastic analysis, 89f:60002** *and* **Colloquium: Stochastic Processes, 89g:60001**
(Meyer, P.-A.) *see* **Seminar: Probability Theory, 89c:60005** *and* **89d:60002**
(Mogyoródi, J.) *see* **Probability theory and mathematical statistics with applications, 89c:60002**
(Neveu, J.) *see* **Colloquium: Stochastic Processes, 89g:60001**
(Norris, James) *see* **Stochastic calculus in application, 89k:60003**

(Prokhorov, Yu. V.) *see* **Congress: Bernoulli Society for Mathematical Statistics and Probability Theory, 89b:60005** *and* **Probability theory and mathematical statistics, 89c:60003**
(Reiss, R.-D.) *see* **Extreme value theory, 89j:60002**
(Shervashidze, T. L.) *see* **School-Colloquium: Probability Theory and Mathematical Statistics, 89b:60007** *and* **89b:60008**
(Siegel, Gerhard) *see* **Limit theorems in probability theory and related fields, 89b:60006**
(Sirazhdinov, S. Kh.) *see* **Probabilistic models and mathematical statistics, 89i:60004**
(Skorokhod, A. V.) *see* **Asymptotic problems in the theory of random processes, 89b:60004**
(Syski, R.) *see* **Queueing theory and its applications, 89e:60004**
(Truman, Aubrey) *see* **Stochastic mechanics and stochastic processes, 89c:60006**
(Üstünel, Ali Süleyman) *see* **Stochastic analysis and related topics, 89b:60010**
(Varadhan, Srinivasa R. S.) *see* **Colloquium: Stochastic Processes, 89g:60001**
(Vincze, István) *see* **Probability theory and mathematical statistics with applications, 89c:60002**
(Watanabe, Shinzo) *see* **Probability theory and mathematical statistics, 89c:60003** *and* **Stochastic analysis, 89f:60002**
(Wertz, Wolfgang) *see* **Probability theory and mathematical statistics with applications, 89c:60002**
(Wolf, Werner) *see* **Limit theorems in probability theory and related fields, 89b:60006**
(Yor, Marc) *see* **Seminar: Probability Theory, 89c:60005; 89d:60001** *and* **89d:60002**

Items listed otherwise than by author

Amsterdam ★ Mark Kac Seminar on Probability and Physics. Syllabus 1985–1987. **89e:60005**
Anniversary:
Applied Probability Trust ★ A celebration of applied probability. (Not in MR)
Birth of Lévy, Paul ★ Colloque Paul Lévy sur les Processus Stochastiques. [Paul Lévy Colloquium on Stochastic Processes] **89g:60001**
Asymptotic methods in the investigation of stochastic models ★ Асимптотические методы в исследовании стохастических моделей. (Russian) [Asymptotic methods in the investigation of stochastic models] **89b:60003**
Asymptotic problems in the theory of random processes ★ Асимптотические задачи теории случайных процессов. (Russian) [Asymptotic problems in the theory of random processes] **89b:60004**
Bakuriani ★ XVIII Школа-Коллоквиум по Теории Вероятностей и Математической Статистике. (Russian) [XVIIIth School-Colloquium on Probability Theory and Mathematical Statistics] **89b:60007**
— ★ XIX Школа-Коллоквиум по Теории Вероятностей и Математической Статистике. (Russian) [XIXth School-Colloquium on Probability Theory and Mathematical Statistics] **89b:60008**
— ★ XXI Школа-Коллоквиум по Теории Вероятностей и Математической Статистике. (Russian) [XXIst School-Colloquium on Probability Theory and Mathematical Statistics] **89c:60004**
Birthday:
Cohen, Jacob Willem ★ Queueing theory and its applications. **89e:60004**
Cambridge ★ Stochastic calculus in application. **89k:60003**
Celebration of applied probability ★ A celebration of applied probability. (Not in MR)
Colloquium:
Stochastic Processes ★ Colloque Paul Lévy sur les Processus Stochastiques. [Paul Lévy Colloquium on Stochastic Processes] **89g:60001**
Conference:
Extreme Value Theory ★ Extreme value theory. **89j:60002**
Stochastic Mechanics and Stochastic Processes ★ Stochastic mechanics and stochastic processes. **89c:60006**
Stochastic processes and their applications Sixteenth conference on stochastic processes and their applications. **89a:60004**
Congress:
Bernoulli Society for Mathematical Statistics and Probability Theory ★ Первый Всемирный Конгресс Общества Математической Статистики и Теории Вероятностей им. Бернулли. Том II. (Russian) [First World Congress of the Bernoulli Society for Mathematical Statistics and Probability Theory. Vol. II] **89b:60005**
Extreme value theory ★ Extreme value theory. **89j:60002**
Gainesville, FL ★ Seminar on Stochastic Processes, 1988. **89j:60005**
Investigations in degenerate differential equations and limit theorems of probability theory ★ Исследования по вырождающимся дифференциальным уравнениям и предельным теоремам теории вероятностей. (Russian) [Investigations in degenerate differential equations and limit theorems of probability theory] **89g:60002**
Kyoto ★ Probability theory and mathematical statistics. **89c:60003**
Lecture Notes in Mathematics ★ Séminaire de Probabilités. XX. 1984/85. (French) [Seminar on Probability Theory. XX. 1984/85] **89d:60001**
— ★ Séminaire de Probabilités. XXI. (French) [Seminar on Probability Theory. XXI] **89d:60002**
— ★ Stochastic analysis and related topics. **89b:60010**
— ★ Probability theory and mathematical statistics. **89c:60003**
— ★ Séminaire de Probabilités. XXII. (French) [Seminar on Probability Theory. XXII] **89c:60005**
— ★ Stochastic mechanics and stochastic processes. **89c:60006**
— ★ Stochastic analysis. **89f:60002**
— ★ École d'Été de Probabilités de Saint-Flour XV–XVII, 1985–87. [Saint-Flour Summer School on Probability Theory XV–XVII, 1985–87] **89i:60005**
Lecture Notes in Statistics ★ Extreme value theory. **89j:60002**
Limit theorems in probability theory and related fields ★ Limit theorems in probability theory and related fields. **89b:60006**
Oberwolfach ★ Extreme value theory. **89j:60002**
Palaiseau ★ Colloque Paul Lévy sur les Processus Stochastiques. [Paul Lévy Colloquium on Stochastic Processes] **89g:60001**
Paris ★ Stochastic analysis. **89f:60002**
Probabilistic models and mathematical statistics ★ Вероятностные модели и математическая статистика. (Russian) [Probabilistic models and mathematical statistics] **89i:60004**
Probabilistic problems in discrete mathematics ★ Вероятностные задачи дискретной математики. (Russian) [Probabilistic problems in discrete mathematics] **89j:60003**
Probabilités ★ Probabilités. (French) [Probability theory] **89c:60001**
— ★ Probabilités. (French) [Probability theory] **89j:60004**
Probability theory ★ Probabilités. (French) [Probability theory] **89c:60001**
— ★ Probabilités. (French) [Probability theory] **89j:60004**
Probability theory and mathematical statistics ★ Probability theory and mathematical statistics. **89c:60003**
Probability theory and mathematical statistics with applications ★ Probability theory and mathematical statistics with applications. **89c:60002**
Probability theory. Mathematical statistics. Theoretical cybernetics ★ Probability theory. Mathematical statistics. Theoretical cybernetics. Vol. 24. **89e:60003**
Proceedings:
Seminar on Stochastic Process, Statistical Inference and Sample Survey ★ Proceedings of the National Seminar on Stochastic Process, Statistical Inference and Sample Survey. **89a:60006**
— ★ Proceedings of the National Seminar on Stochastic Process, Statistical Inference and Sample Survey. **89a:60005**
Queueing theory and its applications ★ Queueing theory and its applications. **89e:60004**
Saint-Flour ★ École d'Été de Probabilités de Saint-Flour XV–XVII, 1985–87. [Saint-Flour Summer School on Probability Theory XV–XVII, 1985–87] **89i:60005**
Sambalpur ★ Proceedings of the National Seminar on Stochastic Process, Statistical Inference and Sample Survey. **89a:60006**
— ★ Proceedings of the National Seminar on Stochastic Process, Statistical Inference and Sample Survey. **89a:60005**
Santa Barbara, CA Extremes of random processes in applied probability. **89c:60007**
School-Colloquium:
Probability Theory and Mathematical Statistics ★ XVIII Школа-Коллоквиум по Теории Вероятностей и Математической Статистике. (Russian) [XVIIIth School-Colloquium on Probability Theory and Mathematical Statistics] **89b:60007**
— ★ XIX Школа-Коллоквиум по Теории Вероятностей и Математической Статистике. (Russian) [XIXth School-Colloquium on Probability Theory and Mathematical Statistics] **89b:60008**
— ★ XXI Школа-Коллоквиум по Теории Вероятностей и Математической Статистике. (Russian) [XXIst School-Colloquium on Probability Theory and Mathematical Statistics] **89c:60004**
School:
Probability Theory ★ École d'Été de Probabilités de Saint-Flour XV–XVII, 1985–87. [Saint-Flour Summer School on Probability Theory XV–XVII, 1985–87] **89i:60005**
Seminar:
Probability and Physics ★ Mark Kac Seminar on Probability and Physics. Syllabus 1985–1987. **89e:60005**
Probability Theory ★ Séminaire de Probabilités. XX. 1984/85. (French) [Seminar on Probability Theory. XX. 1984/85] **89d:60001**
— ★ Séminaire de Probabilités. XXI. (French) [Seminar on Probability Theory. XXI] **89d:60002**
— ★ Séminaire de Probabilités. XXII. (French) [Seminar on Probability Theory. XXII] **89c:60005**
— ★ Stochastic analysis. **89f:60002**
Stochastic Process, Statistical Inference and Sample Survey ★ Proceedings of the National Seminar on Stochastic Process, Statistical Inference and Sample Survey. **89a:60006**
— ★ Proceedings of the National Seminar on Stochastic Process, Statistical Inference and Sample Survey. **89a:60005**
Stochastic Processes ★ Seminar on Stochastic Processes, 1988. **89j:60005**
Siebenlehn 6th Symposium "Stochastic Models" in Siebenlehn (GDR), June 2–5, 1986. (Not in MR)
Silivri ★ Stochastic analysis and related topics. **89b:60010**
Stability problems of stochastic models ★ Stability problems of stochastic models. **89b:60009**
Stanford, Calif. Sixteenth conference on stochastic processes and their applications. **89a:60004**
Stochastic analysis ★ Stochastic analysis. **89f:60002**
Stochastic analysis and related topics ★ Stochastic analysis and related topics. **89b:60010**
Stochastic calculus in application ★ Stochastic calculus in application. **89k:60003**
Stochastic mechanics and stochastic processes ★ Stochastic mechanics and stochastic processes. **89c:60006**
Swansea ★ Stochastic mechanics and stochastic processes. **89c:60006**
Symposium:
Mathematical Statistics ★ Probability theory and mathematical statistics with applications. **89c:60002**
Probability Theory ★ Probability theory and mathematical statistics. **89c:60003**
Stochastic Calculus in Application ★ Stochastic calculus in application. **89k:60003**
Stochastic Models 6th Symposium "Stochastic Models" in Siebenlehn (GDR), June 2–5, 1986. (Not in MR)
Tashkent ★ Первый Всемирный Конгресс Общества Математической Статистики и Теории Вероятностей им. Бернулли. Том II. (Russian) [First World Congress of the Bernoulli Society for Mathematical Statistics and Probability Theory. Vol. II] **89b:60005**
Theory of random processes ★ Теория случайных процессов. Вып. 16. (Russian) [Theory of random processes. No. 16] **89b:60011**
Visegrád ★ Probability theory and mathematical statistics with applications. **89c:60002**
Workshop:
Extremes of random processes in applied probability Extremes of random processes in applied probability. **89c:60007**
Stochastic Analysis and Related Topics ★ Stochastic analysis and related topics. **89b:60010**

Items with secondary classifications in 60–06

(Accardi, Luigi) *see* **Quantum probability and applications, 89i:81004**
(Albeverio, S.) *see* **Stochastic processes in physics and engineering, 89a:00025**

(**Blanchard, Ph.**) *see* **Stochastic processes in physics and engineering**, **89a:00025**
(**Borevich, Z. I.**) *see* **Rings and modules. Limit theorems of probability theory**, **89f:00015**
(**Droesbeke, F.**) *see* **Spatial processes and spatial time series analysis**, **89b:62007**
(**Durrett, Rick**) *see* **Geometry of random motion**, **89b:58008**
(**Fleming, W. H.**) *see* **Stochastic differential systems, stochastic control theory and applications**, **89b:93009**
(**Florens, J.-P.**) *see* **Asymptotic theory for non i.i.d. processes**, **89b:62003** *and* **Spatial processes and spatial time series analysis**, **89b:62007**
(**Gamkrelidze, R. V.**) *see* **Probability theory. Mathematical statistics. Theoretical cybernetics**, **89g:00011**
(**Garmash, V. A.**) *see* **Models and investigation methods in systems in information science**, **89m:94001**
(**Hallin, Marc**) *see* **Spatial processes and spatial time series analysis**, **89b:62007**
(**Hazewinkel, M.**) *see* **Stochastic processes in physics and engineering**, **89a:00025**
(**Kharkevich, A. D.**) *see* **Models and investigation methods in systems in information science**, **89m:94001**
(**Lefevre, C.**) *see* **Spatial processes and spatial time series analysis**, **89b:62007**
(**Lions, Pierre-Louis**) *see* **Stochastic differential systems, stochastic control theory and applications**, **89b:93009**
(**Mouchart, M.**) *see* **Asymptotic theory for non i.i.d. processes**, **89b:62003** *and* **Spatial processes and spatial time series analysis**, **89b:62007**
(**Petrov, Valentin Vladimirovich**) *see* **Rings and modules. Limit theorems of probability theory**, **89f:00015**
(**Pinsky, Mark**) *see* **Geometry of random motion**, **89b:58008**
(**Raoult, J.-P.**) *see* **Asymptotic theory for non i.i.d. processes**, **89b:62003** *and* **Spatial processes and spatial time series analysis**, **89b:62007**
(**Rolin, Jean-Marie**) *see* **Asymptotic theory for non i.i.d. processes**, **89b:62003**
(**Schiehlen, W.**) *see* **Analysis and estimation of stochastic mechanical systems**, **89b:93005**
(**Simar, L.**) *see* **Asymptotic theory for non i.i.d. processes**, **89b:62003** *and* **Spatial processes and spatial time series analysis**, **89b:62007**
(**Streit, L.**) *see* **Stochastic processes in physics and engineering**, **89a:00025**
(**von Waldenfels, Wilhelm**) *see* **Quantum probability and applications**, **89i:81004**
(**Wedig, W.**) *see* **Analysis and estimation of stochastic mechanical systems**, **89b:93005**

Items listed otherwise than by author

Analysis and estimation of stochastic mechanical systems ★ Analysis and estimation of stochastic mechanical systems. **89b:93005**
Asymptotic theory for non i.i.d. processes ★ Asymptotic theory for non i.i.d. processes. **89b:62003**
Bielefeld ★ Stochastic processes in physics and engineering. **89a:00025**
Brussels ★ Spatial processes and spatial time series analysis. **89b:62007**
Conference:
  Geometry of Random Motion ★ Geometry of random motion. **89b:58008**
  Quantum Probability and Applications ★ Quantum probability and applications. III. **89i:81004**
Contemporary Mathematics ★ Geometry of random motion. **89b:58008**
Geometry of random motion ★ Geometry of random motion. **89b:58008**
Ithaca, NY ★ Geometry of random motion. **89b:58008**
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Lecture Notes in Mathematics ★ Quantum probability and applications. III. **89i:81004**
Luminy-Marseille ★ Asymptotic theory for non i.i.d. processes. **89b:62003**
Meeting:
  Asymptotic Theory for Non I.I.D. Processes ★ Asymptotic theory for non i.i.d. processes. **89b:62003**
  BIBOS ★ Stochastic processes in physics and engineering. **89a:00025**
  Statisticians ★ Spatial processes and spatial time series analysis. **89b:62007**
Minneapolis, Minn. ★ Stochastic differential systems, stochastic control theory and applications. **89b:93009**
Models and investigation methods in systems in information science ★ Модели и методы исследований в системах информатики. (Russian) [Models and investigation methods in systems in information science] **89m:94001**
Oberwolfach ★ Quantum probability and applications. III. **89i:81004**
Probability theory. Mathematical statistics. Theoretical cybernetics ★ Теория вероятностей. Математическая статистика. Теоретическая кибернетика. Том 26. (Russian) [Probability theory. Mathematical statistics. Theoretical cybernetics. Vol. 26] **89g:00011**
Quantum probability and applications ★ Quantum probability and applications. III. **89i:81004**
Rings and modules. Limit theorems of probability theory ★ Кольца и модули. Предельные теоремы теории вероятностей. Вып. 2. (Russian) [Rings and modules. Limit theorems of probability theory. No. 2] **89f:00015**
Spatial processes and spatial time series analysis ★ Spatial processes and spatial time series analysis. **89b:62007**
Stochastic differential systems, stochastic control theory and applications ★ Stochastic differential systems, stochastic control theory and applications. **89b:93009**
Stochastic processes in physics and engineering ★ Stochastic processes in physics and engineering. **89a:00025**
Udine ★ Analysis and estimation of stochastic mechanical systems. **89b:93005**
Workshop:
  Stochastic differential systems, stochastic control theory and applications ★ Stochastic differential systems, stochastic control theory and applications. **89b:93009**

60Axx Foundations of probability theory

60A05 Axioms; other general questions

Ahmad, Munir *see* **Ahsan, J.; et al., 89b:60012**
Ahmad, R. *see* **Ahsan, J.; et al., 89b:60012**
Ahsan, J. (*with* Ahmad, Munir; Ahmad, R.) Probability algebras: a review with some statistical application. I. **89b:60012**
Aniszczyk, Bohdan (*with* Burzyk, J.; Kamiński, A.) Borel and monotone hierarchies and extension of Rényi probability spaces. **89k:60004**
Burzyk, J. *see* **Aniszczyk, Bohdan; et al., 89k:60004**
Calude, Cristian (*with* Chiţescu, Ion) Random sequences: some topological and measure-theoretical properties. **89m:60004**
Chiţescu, Ion *see* **Calude, Cristian, 89m:60004**
Kalmár, I. G. On some kinds of event algebras in non-Kolmogorovian probability theory. **89i:60006**
Kamiński, A. *see* **Aniszczyk, Bohdan; et al., 89k:60004**
Keisler, H. Jerome Infinitesimals in probability theory. (*see* **89m:03060**)
Kyburg, Henry E., Jr. Addendum: "Bayesian and non-Bayesian evidential updating" [Artificial Intelligence **31** (1987), no. 3, 271–293; MR 88h:60002]. **89g:60003**
Rao, M. M. Paradoxes in conditional probability. **89m:60005**
Reeves, T. V. A theory of probability. **89k:60005**
Regazzini, Eugenio Finitely additive conditional probabilities. (Italian summary) **89g:60004**
Schwarze, M. G. Preorders compatible with probability measures defined on a Boolean algebra. **89f:60003**
Shortt, Rae Michael Notions of independence for random variables. **89k:60006**
Vovk, V. G. On a criterion for randomness. (Russian) **89a:60007**

Items with secondary classifications in 60A05

Baron, Jonathan Second-order probabilities and belief functions. **89d:03018**
Chaitin, Gregory J. ★ Algorithmic information theory. **89g:68022**
Dubois, Didier (*with* Prade, Henri) Nonprobabilistic aspects of uncertainty. I. Evidence measures and possibility theory. (Chinese summary) **89g:03080**
Kramosil, Ivan A note on nonaxiomatizability of independence relations generated by certain probabilistic structures. **89i:03043**
Lindstrøm, Tom An invitation to nonstandard analysis. (*see* **89m:03060**)
Noorbaloochi, S. Discussion: on Harold Jeffreys' axioms. **89f:03015**
Oblow, E. M. A probabilistic-propositional framework for the O-theory intersection rule. **89b:03049**
Prade, Henri *see* **Dubois, Didier, 89g:03080**
(**Schwartz, Jacob T.**) *see* **Chaitin, Gregory J., 89g:68022**
Stulpe, Werner Conditional expectations, conditional distributions, and a posteriori ensembles in generalized probability theory. **89f:81024**
Walley, Peter Belief function representations of statistical evidence. **89e:62005**

60A10 Probabilistic measure theory {For ergodic theory, see 28Dxx and 60Fxx.}

Beneš, Viktor (*with* Štěpán, Josef) The support of extremal probability measures with given marginals. **89b:60013**
Diaconis, P. Application of the method of moments in probability and statistics. **89m:60006**
Kharazishvili, A. B. On perfect probability spaces. (Russian. English and Georgian summaries) **89m:60007**
Lamb, Charles W. A comparison of methods for constructing probability measures on infinite product spaces. **89f:60004**
Lebedev, A. A. A mathematical model for description of random and indefinite factors from unified positions. **89m:60008**
Maitra, A. (*with* Ramakrishnan, S.) Factorization of measures and normal conditional distributions. **89g:60005**
Ramakrishnan, S. *see* **Maitra, A., 89g:60005**
Štěpán, Josef *see* **Beneš, Viktor, 89b:60013**
Zięba, Wiesław A note on conditional Fatou lemma. **89e:60006**

Items with secondary classifications in 60A10

Alonso, Alberto A counterexample on the continuity of conditional expectations. **89b:60118**
Bendikov, A. D. (*with* Pavlov, I. V.) L_p spaces with a mixed norm on an infinite Cartesian product of probability spaces. (Russian. English summary) **89i:46030**
Berres, Manfred λ-additive measures on measure spaces. **89m:28038**
Bierlein, D. (*with* Stich, W. J. A.) On the extremality of measure extensions. **89m:28007**
Chen, Jeesen *see* **Rubin, Herman, 89j:60029**
Hill, Theodore P. A proportionality principle for partitioning problems. **89m:60038**
Matúš, František Discrete marginal problem for complex measures. **89b:60024**
Pavlov, I. V. *see* **Bendikov, A. D., 89i:46030**
Pulmannová, Sylvia Functional properties of transition probability spaces. **89d:81013**
Regazzini, Eugenio Finitely additive conditional probabilities. (Italian summary) **89g:60004**
Rubin, Herman (*with* Chen, Jeesen) Some stochastic processes related to random density functions. **89j:60029**
Stich, W. J. A. *see* **Bierlein, D., 89m:28007**

60A99 None of the above, but in this section

Chuaqui, Rolando Sets of relational systems as models for stochastic processes. **89f:60005**
Delgado, M. (*with* Moral, S.) A definition of inclusion for evidences. **89m:60009**
Féron, Marc L. (*with* Féron, Robert L.) Fuzzy specifications and random fuzzy events considered as basic tools for statistical prediction. **89m:60010**
Féron, Robert L. *see* **Féron, Marc L., 89m:60010**
Höhle, Ulrich A general theory of fuzzy plausibility measures. **89e:60007**
Li, Xi He Stability of random membership frequency and fuzzy statistics. **89m:60011**
Moral, S. *see* **Delgado, M., 89m:60009**
V′yugin, V. V. The defect of randomness of a finite object with respect to measures with given bounds on their complexity. (Russian) **89b:60014**
Weber, Siegfried Conditional measures based on Archimedean semigroups. **89f:60006**

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Bigelow, John C. (*with* Pargetter, Robert) An analysis of indefinite probability statements. **89b:03041**

Dimiev, V. G. Fuzzing functions. (Bulgarian. English and Russian summaries) **89i:03104**

Droste, Manfred Super-rigid families of strongly Blackwell spaces. **89e:28006**

Feneyrol-Perrin, Yvette Interprétation non standard d'une probabilité standard. [Nonstandard interpretation of a standard probability] **89g:03098**

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Mamedov, V. M. *see* **Kiyasbeĭli, Sh. A., 89c:94054**

Muchnik, An. A. Lower bounds for frequencies in computable sequences, and relativized a priori probability. (Russian) **89j:68075**

Pargetter, Robert *see* **Bigelow, John C., 89b:03041**

Piasecki, Krzysztof A generalization of fuzzy P-measure. **89h:28034**

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Ramer, Arthur Uniqueness of information measure in the theory of evidence. **89h:03099**

Schächter, François The probabilistic-informational opacity functional, Jaynes's principle, and distances to equilibrium of an evolving system. **89g:94013**

Šustal, Jiří On the selective properties of the probability of fuzzy sets. **89g:03083**

Świtalski, Zbigniew *see* **Piasecki, Krzysztof, 89g:60025**

Uspenskiĭ, V. A. *see* **Kolmogorov, A. N., 89d:68035**

Vovk, V. G. The law of the iterated logarithm for sequences that are random in the sense of Kolmogorov or chaotic. (Russian) **89e:60072**

60Bxx Probability theory on algebraic and topological structures

60B05 Probability measures on topological spaces

Anastassiou, George A. A comparison between the Lipschitz and Prohorov metrics. **89e:60008**

Ganiev, I. G. Complete variation of measures with values in ordered vector spaces. (Russian) (*see* **89g:60002**)

Herer, Wojciech Espérance mathématique d'une variable aléatoire à valeurs dans un espace métrique à courbure négative. (English summary) [Mathematical expectation of a random variable with values in a metric space of negative curvature] **89c:60008**

Jakubowski, Adam On the Skorokhod topology. (French summary) **89a:60008**

Li, Hua Gui (*with* Zhang, Wen Xiu) Convergence theorems for the sequence of random sets with respect to the topology. **89m:60012**

Lin, Ta Fêng Decomposition of L^2-functionals on Hilbert spaces with Poisson measure. **89i:60007**

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Nguyen To Nhu (*with* Ta Khac Cu) Probability measure functors preserving the ANR-property of metric spaces. **89m:60013**

Pick, R. Expectation in metric spaces. **89d:60003**

Ponosov, A. V. Some problems of the theory of random topological spaces. (Russian) (*see* **89c:00008**)

Ruzsa, Imre Z. (*with* Székely, Gábor J.) ★ Algebraic probability theory. **89j:60006**

Székely, Gábor J. *see* **Ruzsa, Imre Z., 89j:60006**

Ta Khac Cu *see* **Nguyen To Nhu, 89m:60013**

Wójcicka, Małgorzata The space of probability measures on a Prohorov space is Prohorov. (Russian summary) **89h:60002**

Zhang, Wen Xiu *see* **Li, Hua Gui, 89m:60012**

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Baxter, John Robert (*with* Jain, Naresh C.) A comparison principle for large deviations. **89h:60043**

Cuesta, Juan Antonio (*with* Matrán, Carlos) Strong convergence of weighted sums of random elements through the equivalence of sequences of distributions. **89g:60103**

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Jain, Naresh C. *see* **Baxter, John Robert, 89h:60043**

Jawhar, Abdelali Mesures de transition et applications. [Transition measures and applications] **89g:49020**

Kallenberg, Olav An elementary approach to the Daniell-Kolmogorov theorem and some related results. **89m:60081**

Katznelson, Y. *see* **Malliavin, Paul, 89j:58144**

Komorowski, Ryszard Semistable and self-decomposable measures on separable Banach spaces. **89e:60010**

Kozak, P. P. Wiener measures in the Λ-product of spaces. (Russian. English summary) **89e:28022**

Krutina, Miroslav On the decomposition of continuous flows on the Polish space. **89c:28027**

Lin, Yi Xing Relations between the zero-one law of the convergence of quasicharacter sequences and ergodic measures. (Chinese) **89f:28034**

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Matrán, Carlos *see* **Cuesta, Juan Antonio, 89g:60103**

Meyer, P.-A. *see* **Hu, Yao Zhong, 89k:60070**

Milman, Vitali D. The concentration phenomenon and linear structure of finite-dimensional normed spaces. **89h:46029**

Ryznar, Michał Geometrical properties of Banach spaces and the distribution of the norm for a stable measure. **89k:46027**

Smoleński, Włodzimierz On the continuity of measurable linear functionals. (Russian summary) **89m:46084**

Suchanecki, Zdzisław Linear kernels of p-stable measures. **89g:28019**

Sugiman, Ikuo On a stochastic version of the Anscombe condition. **89g:60086**

Vrábelová, Marta On the conditional expectation in a regular ordered space. (Russian summary) **89f:60010**

Zähle, U. The fractal character of localizable measure-valued processes. I. Random measures on product spaces. **89m:60118**

60B10 Convergence of probability measures

Bakštys, G. (*with* Paulauskas, Vygantas) Convergence of distributions of sums of Banach-space-valued random elements with infinitely divisible laws. II. (Russian. English and Lithuanian summaries) **89a:60009**

Baushev, A. N. On the weak convergence of Gaussian measures. (Russian) **89g:60006**

Bergström, Harald Weak limits of probability measures on metric Schauderspaces. **89c:60009**

Fernique, X. Un modèle presque sûr pour la convergence en loi. (English summary) [An almost sure model for weak convergence] **89a:60010**

Ghosh, Sankar Almost sure equi-convergence and equi-convergence in L_1 of certain real-valued and Banach-space-valued functions. **89b:60015**

Harel, Michel Weak convergence of multidimensional rank statistics under φ-mixing conditions. **89m:60014**

Jakubowski, Adam Tightness criteria for random measures with application to the principle of conditioning in Hilbert spaces. **89h:60003**

Kamiński, A. On the Urysohn condition and the convergence of probability distributions. **89a:60011**

Lachout, Petr Billingsley-type tightness criteria for multiparameter stochastic processes. **89m:60015**

Morkvėnas, R. Convergence of two-parameter random processes. (Russian. English and Lithuanian summaries) **89i:60009**

Paulauskas, Vygantas *see* **Bakštys, G., 89a:60009**

Plachky, D. A continuity property of the convolution. **89b:60016**

Rusakov, A. A. (*with* Seleznev, O. V.) Weak convergence of functionals of random processes with continuously differentiable paths. (Russian) **89a:60012**

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Seleznev, O. V. *see* **Rusakov, A. A., 89a:60012**

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Girko, V. L. Elliptic law and elements of G-analysis. **89b:60075**

Helmberg, Gilbert On subsequences of normal sequences. **89g:11064**

Hoffmann-Jørgensen, J. The general marginal problem. **89f:46140**

Juknevičienė, D. Majorizing measures and operators of stable type in the space $C(S)$. (Russian. English and Lithuanian summaries) **89b:47046**

Jurek, Zbigniew J. Random integral representations for classes of limit distributions similar to Lévy class L_0. **89h:60032**

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Paulauskas, Vygantas *see* **Bakštys, G., 89c:60011**

Ritov, Yakov Tightness of monotone random fields. **89a:60133**

Rogge, Lothar *see* **Landers, Dieter, 89j:28007**

Ryzhov, Yu. M. A class of probability measures in a Hilbert space. (Russian) **89j:60009**

Salinetti, Gabriella Distribution functions and epi-convergence. **89k:60036**

Sempi, Carlo Orlicz metrics for weak convergence of distribution functions. (Italian summary) **89b:46040**

— A new metric for weak convergence. (Serbo-Croatian summary) **89g:28005**

Takeda, Masayoshi Tightness property for symmetric diffusion processes. **89h:60132**

Volný, Dalibor Martingale decompositions of stationary processes. **89d:60053**

60B11 Probability theory on linear topological spaces [see also 28C20]

de Acosta, A. A decoupling inequality for multilinear functions of stable vectors. **89h:60004**

Barsov, S. S. (*with* Ul′yanov, V. V.) The difference of Gaussian measures. (Russian) **89g:60007**

— A comparison principle. **89m:60016**

Bogachëv, V. I. Differentiability of measures in the sense of Skorokhod. **89h:60005**

Bulinskiĭ, A. V. (*with* Doukhan, Paul) Inégalités de mélange fort utilisant des normes d'Orlicz. (English summary) [Strong mixing moment inequalities using Orlicz norms] **89b:60017**

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Chu Van Dong Self-decomposable probability measures on locally convex topological vector spaces. **89e:60009**

Đặng Hùng Thắng Random operators in Banach spaces. **89d:60004**

Davydov, Yu. A. A remark on the absolute continuity of the distributions of Gaussian functionals. **89d:60005**

Doukhan, Paul *see* **Bulinskiĭ, A. V., 89b:60017**

Elezović, Neven Cylindrical measures on tensor products of Banach spaces and random linear operators. **89a:60015**

Jurlewicz, T. Wiener processes with values in p-homogeneous Fréchet spaces. **89h:60007**

Kolchinskiĭ, V. I. Operators of type p and metric entropy. (Russian) **89j:60007**

Komorowski, Ryszard Semistable and self-decomposable measures on separable Banach spaces. **89e:60010**

— Operator semistable probability measures on Banach spaces. **89i:60011**

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Li, De Li A remark on the symmetrization principle for sequences of B-valued random elements. (Chinese. English summary) **89i:60012**

Li, Yong Il H-valued generalized stationary stochastic processes and the spectral resolution of their covariance operators. (Korean. English summary) **89k:60007**

Lifshits, M. A. Density of the distribution of the norm of a stable vector. **89a:60016**

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Ryzhov, Yu. M. A class of probability measures in a Hilbert space. (Russian) **89j:60009**

Ryznar, Michał *see* **Byczkowski, T., 89h:60006**

Salehi, H. *see* **Makagon, A., 89a:60019**

Smoleński, Włodzimierz *see* **Pietruska-Pałuba, Katarzyna, 89g:60008**

Taqqu, Murad S. *see* **McConnell, Terry R., 89e:60011**

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Vinnishin, Ya. F. Operator-valued processes with independent increments. (Russian) **89i:60013**

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— *see also* **Lewandowski, Maciej, 89c:60010**

Items with secondary classifications in 60B11

Arkhangel′skiĭ, A. N. Lower bounds for the probabilities of large deviations in the multidimensional case. (Russian) **89b:60067**

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Baushev, A. N. On the weak convergence of Gaussian measures. (Russian) **89g:60006**

Bolthausen, E. Laplace approximations for sums of independent random vectors. II. Degenerate maxima and manifolds of maxima. **89g:60092**

Borovskikh, Yu. V. The theory of U-statistics in Banach spaces. (Russian) **89f:62010**

Brooks, James K. (*with* Dinculeanu, Nicolae) Modifications càdlàg et décomposition de Doob-Meyer des quasimartingales à valeurs dans un espace de Banach. (English summary) [Càdlàg modifications and the Doob-Meyer decomposition of quasimartingales with values in a Banach space] **89k:60064**

Byczkowski, T. RKHS for Gaussian measures on metric vector spaces. (Russian summary) **89c:46061**

Choi, Bong Dae (*with* Sung, Soo Hak) On Chung's strong law of large numbers in general Banach spaces. **89b:60018**

Daletskiĭ, Yu. L. (*with* Pipia, G. M.) Quasidistributions in function spaces connected with evolution differential equations. **89a:46099**

Dinculeanu, Nicolae Vector-valued stochastic processes. I. Vector measures and vector-valued stochastic processes with finite variation. **89h:60077a**

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— *see also* **Brooks, James K., 89k:60064**

Dobrić, V. Analytically normed spaces. **89c:46014**

— The law of large numbers in locally convex spaces. **89e:60065**

Enchev, Ognian Hilbert-space-valued quasimartingales. (Italian summary) **89b:60124**

Ghosh, Sankar On some versions of the de Finetti's theorem and the strong law of large numbers for Banach-space-valued functions. **89m:60083**

Gordon, Yehoram Gaussian processes and almost spherical sections of convex bodies. **89a:60107**

Inoue, Kazuyuki Conjugate sets of Gaussian random fields on a Hilbert space. **89a:60108**

Jurek, Zbigniew J. Random integral representations for classes of limit distributions similar to Lévy class L_0. **89h:60032**

Kandelaki, N. P. A collection of Gaussian random vectors. (Russian. English and Georgian summaries) **89a:60039**

Kemperman, J. H. B. The median of a finite measure on a Banach space. **89h:46032**

Klass, Michael J. A best possible improvement of Wald's equation. **89g:60155**

Kõrezlioğlu, Hayri (*with* Üstünel, Ali Süleyman) An Itô formula for processes with values in an abstract Wiener space. **89i:60113**

Krakowiak, Wiesław (*with* Szulga, Jerzy) On a p-stable multiple integral. I, II. **89k:60071**

Ledoux, M. (*with* Talagrand, Michel) Characterization of the law of the iterated logarithm in Banach spaces. **89i:60016**

Li, Yũ Chia Unitary operators on the space of L^2-functions over abstract Wiener spaces. **89h:47045**

Linde, Werner Jenaer Beiträge zur Wahrscheinlichkeitstheorie auf Banachräumen. (English and Russian summaries) [Jena's contribution to probability theory on Banach spaces] **89a:01094**

Liu, Pei De Set function processes and nuclearity in Fréchet spaces. (Chinese. English summary) **89k:46003**

Ma, Hong On some asymptotic properties of the solution for a stochastic differential equation on Hilbert spaces. **89e:60112**

Okazaki, Yoshiaki (*with* Takahashi, Yasuji) 0-1 laws for kernels of a linear uniform measure. **89a:28010**

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Paulauskas, Vygantas *see* **Bakštys, G., 89c:60011**

Pipia, G. M. *see* **Daletskiĭ, Yu. L., 89a:46099**

Skorokhod, T. A. Limit of a sequence of bounded random linear operators. (Russian) **89d:60115**

Sokhadze, G. A. Equivalence of measures corresponding to the solutions of some problems of mathematical physics with Gaussian random perturbation. (Russian) **89i:60090**

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Takahashi, Yasuji (*with* Okazaki, Yoshiaki) Uniform measures on linear spaces. **89a:28009**

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— (*with* Okazaki, Yoshiaki) On the relationship between γ_p-Radonifying operators and other operator ideals in Banach spaces of stable type p. **89i:47038**

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Üstünel, Ali Süleyman *see* **Kõrezlioğlu, Hayri, 89i:60113**

Xue, Xing Hong Some results on reversed adapted sequences. (Chinese. English summary) **89k:60065**

60B12 Limit theorems for vector-valued random variables (infinite-dimensional case)

Alt, Jean-Christian La loi des grands nombres de Prokhorov dans les espaces de type p. (English summary) [Prokhorov's law of large numbers in type-p spaces] **89f:60007**

— Sur le comportement asymptotique presque sur des sommes de variables aléatoires à valeurs vectorielles. (English summary) [On the asymptotic behavior in the almost sure sense of sums of vector-valued random variables] **89a:60021**

Andersen, Niels Trolle (*with* Dobrić, V.) The central limit theorem for stochastic processes. II. **89h:60010**

— (*with* Giné, Evarist; Ossiander, Mina; Zinn, Joel) The central limit theorem and the law of iterated logarithm for empirical processes under local conditions. **89g:60009**

Bakštys, G. (*with* Paulauskas, Vygantas) On the approximation of distributions of sums of independent Banach-space-valued random elements with infinitely divisible laws. (Russian) **89c:60011**

Bentkus, Vidmantas-Kastytis Jurgio (*with* Liubinskas, K.) Rate of convergence in the invariance principle in Banach spaces. (Russian. English and Lithuanian summaries) **89c:60012**

Borisov, I. S. An accuracy of Gaussian approximation of sum distribution of independent random variables in Banach spaces. **89f:60008**

Borovskikh, Yu. V. A central limit theorem for UB-statistics. (Russian. English summary) **89g:60010**

Butsan, G. P. (*with* Kozachenko, M. Yu.) A limit theorem for parametric stochastic operator systems. **89e:60013**

Bychkova, T. V. Probability inequalities for sums of random elements. (Russian) **89e:60014**

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Choukairi, A. Sur la convergence d'espérances conditionnelles de multiapplications. [Convergence of conditional expectations of multivalued mappings] **89i:60014**

Cuesta, Juan Antonio (*with* Matrán, Carlos) The strong law of large numbers for k-means and best possible nets of Banach valued random variables. **89g:60011**

Delesalle, Dominique Classes de Donsker et fonction d'entropie relatives aux mesures aléatoires. (English summary) [Donsker classes and an entropy function relative to random measures] **89b:60019**

Deng, Dian Liang The law of the iterated logarithm for tail sums of Banach-space-valued random variables. (Chinese. English summary) **89i:60015**

Denis′evskiĭ, N. A. The strong law of large numbers for a linear process in a Banach space. (Russian) **89g:60012**

Dobrić, V. The law of large numbers, examples and counterexamples. **89a:60022**
— *see also* **Andersen, Niels Trolle, 89h:60010**
Einmahl, Uwe Strong approximations for partial sums of i.i.d. B-valued r.v.'s in the domain of attraction of a Gaussian law. **89d:60008**
Fazekas, I. A strong law of large numbers in Banach spaces of type Φ. **89a:60023**
Giné, Evarist *see* **Andersen, Niels Trolle; et al., 89g:60009**
Goodman, Victor Characteristics of normal samples. **89h:60011**
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Jin, Wen Zhou The law of the iterated logarithm for subsequences of sums of random variables in a Banach space. (Chinese. English summary) **89a:60024**
Juknevičienė, D. The central limit theorem in the space $C(S)$ and majorizing measures. (Russian. English and Lithuanian summaries) **89a:60025**
— *see also* **Paulauskas, Vygantas, 89m:60018**
Kir'yanova, L. V. (*with* Rotar', V. I.) A lemma on "corrected" distributions. (Russian) **89b:60021**
Kolchinskiĭ, V. I. Limit theorems for empirical characteristic functionals in Banach spaces. (Russian) **89g:60013**
Kozachenko, M. Yu. *see* **Butsan, G. P., 89e:60013**
Krajka, A. On the limit behaviour of H-valued martingales with random indices. (Russian summary) **89j:60010**
Ledoux, M. (*with* Talagrand, Michel) Characterization of the law of the iterated logarithm in Banach spaces. **89i:60016**
— (*with* Talagrand, Michel) Un critère sur les petites boules dans le théorème limite central. (English summary) [A criterion on small balls in the central limit theorem] **89e:60015**
Li, De Li *see* **Wu, Zhi Quan; et al., 89g:60020**
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Marcus, Michael B. (*with* Talagrand, Michel) Chevet's theorem for stable processes. II. **89g:60014**
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Matsak, I. K. (*with* Plichko, A. N.) Some inequalities for sums of independent random variables in Banach spaces. (Russian) **89e:60016**
— (*with* Plichko, A. N.) A central limit theorem in a Banach space. **89g:60015**
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Mikosch, Thomas (*with* Norvaiša, R.) Limit theorems for methods of summation of independent random variables. II. (Russian. English and Lithuanian summaries) **89a:60026**
Norvaiša, R. (*with* Paulauskas, Vygantas; Račkauskas, A.) An operator approach in limit theorems for sums of the type $n^{-1/p}S_n$ in Banach spaces. **89h:60012**
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Paulauskas, Vygantas (*with* Račkauskas, A.) ★ Точность аппроксимации в центральной предельной теореме в банаховых пространствах. (Russian) [The accuracy of approximation in the central limit theorem in Banach spaces] **89b:60023**
— Estimates of the rate of convergence in the central limit theorem in Banach spaces. **89h:60013**
— (*with* Juknevičienė, D.) The convergence rate in the central limit theorem in the space $D[0, 1]$. **89m:60018**
— *see also* **Bakštys, G., 89c:60011** *and* **Norvaiša, R.; et al., 89h:60012**
Plichko, A. N. *see* **Matsak, I. K., 89e:60016** *and* **89g:60015**
Puri, Madan L. *see* **Harel, Michel, 89b:60020**
Račkauskas, A. *see* **Paulauskas, Vygantas, 89b:60023** *and* **Norvaiša, R.; et al., 89h:60012**
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Rhee, WanSoo T. (*with* Talagrand, Michel) Correction: "Bad rates of convergence for the central limit theorem in Hilbert space" [Ann. Probab. **12** (1984), no. 3, 843–850; MR 85m:60012]. **89j:60011**
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— Normal approximation in finite-dimensional and Hilbert spaces. (Russian) **89m:60020**
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Talagrand, Michel On liftings and the regularization of stochastic processes. **89g:60017**
— *see also* **Ledoux, M., 89e:60015; Marcus, Michael B., 89g:60014; Ledoux, M., 89i:60016** *and* **Rhee, WanSoo T., 89j:60011**
Topolski, K. Central limit theorem for some dependent random elements of $D[0, 1]$. **89g:60018**
Trần Quốc Việt The convergence of random series with finite second moments. (Vietnamese. English summary) **89m:60021**
Ul'yanov, V. V. Normal approximation for sums of nonidentically distributed random variables in Hilbert spaces. **89f:60009**
— *see also* **Zalesskiĭ, B. A.; et al., 89k:60008** *and* **Sazonov, Vyacheslav Vasil'evich, 89m:60019**
Vrábelová, Marta On the conditional expectation in a regular ordered space. (Russian summary) **89f:60010**
Vvedenskaya, E. R. Monotonicity of exact upper sequences for sums of independent random vectors in a Hilbert space. **89i:60017**
Wang, Xiang Chen (*with* Rao, M. Bhaskara) Some weak and strong laws of large numbers for $D[0, 1]$-valued random variables. **89g:60019**
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Wang, Zhen Peng On convergence of vector-valued GWT of class B. (Chinese. English summary) **89d:60009**
Wu, Zhi Quan (*with* Wang, Xiang Chen; Li, De Li) Some general results of the law of large numbers. **89g:60020**
Zalesskiĭ, B. A. Zones of normal convergence in a Hilbert space. (Russian. English summary) **89g:60021**
— Accuracy of normal approximation in Banach spaces. **89h:60014**
— (*with* Sazonov, Vyacheslav Vasil'evich; Ul'yanov, V. V.) Normal approximation in a Hilbert space. I. **89k:60008**
— Asymptotic expansions in the central limit theorem in Banach spaces. (Russian. English summary) **89e:60017**
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Zaman, Asad A type 2 inequality for functions of bounded variation. **89d:60010**
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Bentkus, Vidmantas-Kastytis Jurgio Large deviations in Banach spaces. (Russian) **89f:60033**
Byczkowski, T. (*with* Ryznar, Michał) Series of independent vector-valued random variables and absolute continuity of seminorms. **89h:60006**
Chiang, Tsu Shu (*with* Sheu, Shuenn Jyi) Large deviation of some infinite-dimensional Markov processes. **89a:60180**
Cuesta, Juan Antonio (*with* Matrán, Carlos) Strong convergence of weighted sums of random elements through the equivalence of sequences of distributions. **89g:60103**
Dabrowski, André Robert Invariance principles in probability for stable processes generated by a class of dependent sequences. (French summary) **89d:60062**
Deng, Dian Liang The law of iterated logarithm of weighted sums of Banach space valued random variables. **89j:60048**
Gabbasov, F. G. A multidimensional limit theorem for the sums $\sum f(t2^k)$. (Russian) **89b:60054**
Giné, Evarist (*with* Zinn, Joel) A remark on the central limit theorem for random measures and processes. **89e:60077**
Goodman, Victor (*with* Kuelbs, J.) Rates of convergence for increments of Brownian motion. **89a:60080**
Jakubowski, Adam Tightness criteria for random measures with application to the principle of conditioning in Hilbert spaces. **89h:60003**
Komorowski, Ryszard Operator semistable probability measures on Banach spaces. **89i:60011**
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Li, Bing The strong law of large numbers for B-valued amarts. (Chinese. English summary) **89i:60098**
Li, De Li A remark on the symmetrization principle for sequences of B-valued random elements. (Chinese. English summary) **89i:60012**
Linde, Werner Jenaer Beiträge zur Wahrscheinlichkeitstheorie auf Banachräumen. (English and Russian summaries) [Jena's contribution to probability theory on Banach spaces] **89a:01094**
Liu, Pei De Vector-valued martingales in the limit and their a.e. convergence. (Chinese) **89d:60091**
Liu, Zhi Hui Banach-space-valued L^1 martingales in the limit and their properties. (Chinese) **89d:60092**
Matrán, Carlos *see* **Cuesta, Juan Antonio, 89g:60103**
Philipp, Walter Invariance principles for independent and weakly dependent random variables. **89a:60093**
Ryznar, Michał *see* **Byczkowski, T., 89h:60006**
Sheu, Shuenn Jyi *see* **Chiang, Tsu Shu, 89a:60180**
Smirnov, A. K. Some properties of distributions in K. Urbanik's algebras. **89i:60028**
Talagrand, Michel Donsker classes and random geometry. **89b:60090**
— Donsker classes of sets. **89g:60124**
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60B15 Probability measures on groups, Fourier transforms, factorization

Bingham, Michael S. Local conditional expectations and an application to a central limit theorem on a locally compact abelian group. **89a:60027**
— Functional central limit theorems for approximate martingale arrays in a locally compact abelian group. **89i:60018**
Bloom, Walter R. (*with* Heyer, Herbert) Continuity of convolution semigroups on hypergroups. **89j:60012**
Bougerol, Philippe Tightness of products of random matrices and stability of linear stochastic systems. **89a:60028**
Byczkowska, H. (*with* Byczkowski, T.) Zero-one law for subgroups of paths of group-valued stochastic processes. **89g:60022**
Byczkowski, T. *see* **Byczkowska, H., 89g:60022**
Cartwright, Donald I. Random walks on direct sums of discrete groups. **89j:60013**
Cerrito, P. B. Limits of convolution iterates and properties of random walks defined on regular semigroups with applications to matrix semigroups. **89k:60009**
Dehay, D. (*with* Moché, R.) Strongly harmonizing operators and strongly harmonizable approximations of continuous random fields on LCA groups. **89j:60014**
Duncan, T. E. An estimation problem in compact Lie groups. **89e:60018**
Élie, Laure Noyaux potentiels associés aux marches aléatoires sur les espaces homogènes. Quelques exemples clefs dont le groupe affine. [Potential kernels associated with random walks on homogeneous spaces. Some key examples, including the affine group] **89f:60011**
Fel'dman, G. M. The Pólya characterization of a Gaussian measure on groups. **89g:60023**
— A characterization of a Gaussian distribution on abelian groups. (Russian) **89e:60019**
— Gaussian measures in Urbanik's sense and a characterization theorem for abelian groups. **89m:60022**
Gallardo, Léonard (*with* Gebuhrer, Olivier) Marches aléatoires et hypergroupes. (English summary) [Random walks and hypergroups] **89g:60024**
Gebuhrer, Olivier *see* **Gallardo, Léonard, 89g:60024**
Girko, V. L. Random determinants. (Russian) **89a:60029**
Hazod, W. (*with* Siebert, E.) Automorphisms on a Lie group contracting modulo a compact subgroup and applications to semistable convolution semigroups. **89m:60023**

Hennion, H. Comportement des exposants de Lyapounov d'une matrice perturbée par des rotations. [Behavior of the Lyapunov exponents of a matrix perturbed by rotations] **89j:60015**

Heyer, Herbert Convolution semigroups of measures on Sturm-Liouville structures. **89m:60024**

— *see also* **Bloom, Walter R., 89j:60012**

Kalina, Martin The central limit theorem on compact commutative groups. **89m:60025**

Matthews, Peter Mixing rates for a random walk on the cube. **89a:60030**

Matúš, František Discrete marginal problem for complex measures. **89b:60024**

Mindlin, D. S. (*with* Rubshteĭn, B. A.) Convolutions of random measures on a compact group. **89j:60016**

Moché, R. *see* **Dehay, D., 89j:60014**

Mukherjea, Arunava Convergence in distribution of products of random matrices: a semigroup approach. **89b:60025**

Ng, Boon-Yian An extension of random walks on the dual of SU(2). **89c:60013**

Onipchuk, S. V. Stability with respect to a group of actions of probability laws, defined on a finite abelian group. (Russian) **89b:60026**

Raugi, Albert Un théorème de Choquet-Deny pour les groupes moyennables. (English summary) [A Choquet-Deny theorem for amenable groups] **89f:60012**

Rubshteĭn, B. A. *see* **Mindlin, D. S., 89j:60016**

Siebert, E. *see* **Hazod, W., 89m:60023**

Soardi, P. M. Simple random walks on $Z^2 * Z_2$. **89k:60010**

— Random walks on a discrete semigroup and Chebyshev polynomials. **89h:60015**

Tarieladze, V. I. On a topological description of characteristic functionals. **89a:60031**

Taylor, John Christopher Minimal functions, martingales, and Brownian motion on a noncompact symmetric space. **89e:60020**

Tortrat, A. Le support des lois indéfiniment divisibles dans un groupe abélien localement compact. [The support of infinitely divisible laws in a locally compact abelian group] **89h:60016**

Varopoulos, Nicholas Th. Convolution powers on locally compact groups. (French summary) **89h:60017**

Vol'kovich, V. È. Infinitely divisible distributions in algebras with stochastic convolution. **89j:60017**

Zapała, August M. On exponential integrability of a transferable pseudometric with respect to a Gaussian measure on a group. (Russian summary) **89i:60019**

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Berger, Marc A. A Trotter product formula for random matrices. **89b:60049**

Cartwright, Donald I. (*with* Soardi, P. M.) A local limit theorem for random walks on the Cartesian product of discrete groups. (Italian summary) **89a:60159**

Dani, S. G. (*with* McCrudden, M.) Factors, roots and embeddability of measures on Lie groups. **89j:43001**

Derriennic, Y. ★ Entropie, théorèmes limite et marches aléatoires. (French) [Entropy, limit theorems and random walks] **89f:60076a**

— Entropie, théorèmes limite et marches aléatoires. [Entropy, limit theorems and random walks] **89f:60076b**

Doyle, Peter G. *see* **Fishburn, Peter C.; et al., 89i:60035**

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Ismagilov, R. S. Correction to: "Application of a group algebra to problems on the tail σ-algebra of a random walk on a group and to problems on the ergodicity of a skew action". (Russian) **89m:60159b**

— Application of a group algebra to problems on the tail σ-algebra of a random walk on a group and to problems on the ergodicity of a skew action. **89m:60159a**

Kaĭmanovich, V. A. Boundaries of random walks on polycyclic groups and the law of large numbers for solvable Lie groups. (Russian. English summary) **89j:60098**

Lo, James Ting Ho (*with* Ng, Sze Kui) Characterizing Fourier series representation of probability distributions on compact Lie groups. **89e:43019**

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Picardello, Massimo A. (*with* Woess, Wolfgang) Martin boundaries of random walks: ends of trees and groups. **89a:60177**

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Ruzsa, Imre Z. Infinite divisibility. **89g:60051**

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Sattler, J. (*with* Schnorr, C.-P.) Generating random walks in groups. **89a:68108**

Sawyer, Stanley (*with* Steger, Tim) The rate of escape for anisotropic random walks in a tree. **89a:60165**

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Schott, R. Recurrent random walks on homogeneous spaces. **89a:60166**

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Siebert, E. Decomposition of convolution semigroups on Polish groups and zero-one laws. **89b:60173**

Soardi, P. M. *see* **Cartwright, Donald I., 89a:60159**

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Urbanik, K. A counterexample on generalized convolutions. **89d:60023**

Watkins, Joseph C. Functional central limit theorems and their associated large deviation principles for products of random matrices. **89b:60091**

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Youssfi, El Hassan Mesures de Lévy et fonctions de Lévy générales. (English summary) [General Lévy measures and Lévy functions] **89a:43008**

60B99 None of the above, but in this section

Hess, Christian Théorème de la convergence dominée pour l'intégrale et l'espérance conditionnelle des ensembles aléatoires non bornés et des intégrandes. (English summary) [The dominated convergence theorem for the integral and the conditional expectation of unbounded random sets and of integrands] **89a:60032**

Piasecki, Krzysztof (*with* Świtalski, Zbigniew) A remark on the definition of fuzzy P-measures and the Bayes formula. **89g:60025**

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Bocşan, Gheorghe ★ Random sets and related topics. **89k:60085**

Cerrito, P. B. An improved stochastic model allowing interaction among individuals. **89i:60141**

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Dunau, Jean-Louis (*with* Sénateur, Henri) A characterization of the type of the Cauchy-Hua measure on real symmetric matrices. **89g:60039**

Ferland, R. (*with* Giroux, Gaston) The p-q model Boltzmann equation: convergence of the solution. **89d:82069**

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Hudson, William N. (*with* Jurek, Zbigniew J.; Veeh, Jerry Alan) The symmetry group and exponents of operator stable probability measures. **89b:60093**

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Lipovan, O. The probabilistic and random submeasurability of the set-valued mappings. (Romanian summary) **89j:28001**

Sénateur, Henri *see* **Dunau, Jean-Louis, 89g:60039**

Skorokhod, A. V. Stochastic processes in infinite-dimensional spaces. (Russian) **89e:60081**

Vakhaniya, N. N. (*with* Kandelaki, N. P.) A generalization of the Hurwitz-Radon-Eckmann theorem, and orthogonal random vectors. **89a:47061**

Veeh, Jerry Alan *see* **Hudson, William N.; et al., 89b:60093**

von Waldenfels, Wilhelm Noncommutative algebraic central limit theorems. **89e:46075**

60C05 Combinatorial probability

An, Hong Zhi (*with* Dai, Zong Duo) Mean and variance of longest runs. (Chinese) (Not in MR)

Arthur, W. Brian (*with* Ermol'ev, Yu. M.; Kaniovskiĭ, Yu. M.) Adaptive growth processes that can be modeled by urn schemes. (Russian. English summary) **89d:60011**

Asimov, A. A scheme for the arrangement of particles in cells. (Russian) (*see* **89g:60002**)

— *see also* **Formanov, Sh. K., 89d:60013**

Baróti, G. First passage problems for Ehrenfest model. **89g:60026**

Bollobás, B. (*with* Winkler, Peter M.) The longest chain among random points in Euclidean space. **89k:60011**

Carnal, H. Un problème de probabilité maximale. [A problem of maximum probability] **89m:60026**

Dai, Zong Duo *see* **An, Hong Zhi,** (Not in MR)

DeLaurentis, J. M. Random functions and their small cycles. **89d:60012**

— Components and cycles of a random function. (*see* **89b:68005**)

Devroye, Luc Applications of the theory of records in the study of random trees. **89m:60027**

Elek, G. (*with* Grill, K.) On a full protocol problem. **89g:60027**

Emanuel, David C. (*with* Sutrick, Kenneth H.) Nonrandom shuffling strategies in blackjack. **89i:60020**

Ermol'ev, Yu. M. *see* **Arthur, W. Brian; et al., 89d:60011**

Formanov, Sh. K. (*with* Asimov, A.) A limit theorem for a decomposable statistic in a random allocation scheme. (Russian) **89d:60013**

Green, Timothy A. A generalized matching problem. **89j:60018**

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Hansen, Jennie C. A functional central limit theorem for random mappings. **89m:60028**

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Harris, Bernard (*with* Marden, Morris; Park, Chong Jin) The distribution of the number of empty cells in a generalized random allocation scheme. **89b:60027**

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van Hove, L. Negative binomial multiplicity distributions in continuous domains. **89d:60014**

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— *see also* **Arthur, W. Brian; et al., 89d:60011**

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Monahan, John F. An alternative method for computing overflow probabilities. **89b:60029**

Móri, Tamás F. Maximum waiting time when the size of the alphabet increases. **89a:60033**

Nishimura, Kazuo (*with* Sibuya, Masaaki) Occupancy with two types of balls. **89d:60015**

Park, Chong Jin *see* **Harris, Bernard; et al., 89b:60027**

Pavlov, A. I. Local limit theorems for the number of components of random permutations and mappings. **89g:60029**

Pavlov, Yu. L. Distributions of the number of vertices in the strata of a random forest. **89h:60018**

Percus, J. K. *see* **Percus, O. E., 89d:60016**

Percus, O. E. (*with* Percus, J. K.) Coin tossing, revisited. **89d:60016**

Philippou, A. N. Recursive theorems for success runs and reliability of consecutive-k-out-of-n: F systems. **89i:60022**

Quine, M. P. *see* **Holst, Lars; et al., 89i:60021**

Ramakrishna, M. V. Computing the probability of hash table/urn overflow. **89b:60028**

Robertson, Lewis C. (*with* Shortt, Rae Michael; Landry, Stephen G.) Dice with fair sums. **89h:60019**

Ruciński, Andrzej When are small subgraphs of a random graph normally distributed? **89e:60023**

Savchuk, M. N. Limit theorems in a scheme of group allocation of particles with random levels. (Russian) **89a:60034**

— Convergence of multidimensional random processes, connected with decomposable statistics in arrangement schemes, to Gaussian diffusion processes. (Russian) (*see* **89b:90004**)

Scheinberg, Stephen Waiting times for multiple occurrences of several events. **89i:60023**

Shortt, Rae Michael *see* **Robertson, Lewis C.; et al., 89h:60019**

Sibuya, Masaaki *see* **Nishimura, Kazuo, 89d:60015**

Sutrick, Kenneth H. *see* **Emanuel, David C., 89i:60020**

Swensen, Anders Rygh A note on a randomized occupancy problem. **89i:60024**

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— (*with* Ermol′ev, Yu. M.; Kaniovskiĭ, Yu. M.) ★ Предельные теоремы для долей шаров в обобщенной схеме урны с шарами N цветов, добавляемыми порциями случайного объема. (Russian) [Limit theorems for fractions of balls in a generalized urn scheme with balls of N colors that can be supplemented with portions of random size] **89d:60060**

Brennan, Joseph P. (*with* Wolfskill, J.) Remarks: "On the probability that the determinant of an $n \times n$ matrix over a finite field vanishes" [Discrete Math. **51** (1984), no. 3, 311–315; MR 86a:15012] by A. Mukhopadhyay. **89c:15021**

Buckley, Fred (*with* Palka, Zbigniew) Random graphs with the distance-hereditary property. **89i:05245**

Chen, Robert W. *see* **Erdős, Paul, 89d:60124**

Chrysaphinou, Ourania (*with* Papastavridis, S.) A limit theorem on the number of overlapping appearances of a pattern in a sequence of independent trials. **89g:60069**

— (*with* Papastavridis, S.) A limit theorem for the number of nonoverlapping occurrences of a pattern in a sequence of independent trials. **89g:60070**

Cohen, Joel E. The sensitivity of expected spanning trees in anisotropic random graphs. **89b:05146**

Dwass, M. A limit theorem for Bernoulli RVs and Feller's shoe problem. **89e:60042**

Dyer, M. E. (*with* Frieze, A. M.; Foulds, L. R.) On the strength of connectivity of random subgraphs of the n-cube. **89a:05117**

Erdős, Paul (*with* Chen, Robert W.) Random walks on Z_2^n. **89d:60124**

Ermol′ev, Yu. M. *see* **Arthur, W. Brian; et al., 89a:60076** *and* **89d:60060**

Foulds, L. R. *see* **Dyer, M. E.; et al., 89a:05117**

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— *see also* **Dyer, M. E.; et al., 89a:05117**

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— Urn models, approximations, and splines. **89g:41005**

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Higgins, P. M. The range order of a product of i transformations from a finite full transformation semigroup. **89b:20136**

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Ismatullaev, Sh. A. Second-order asymptotics for decomposable statistics in a Pólya scheme. (Russian) **89g:60076**

Jackson, Bill *see* **Frieze, A. M., 89a:05118**

Janson, Svante Normal convergence by higher semi-invariants with applications to sums of dependent random variables and random graphs. **89a:60062**

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Kaniovskiĭ, Yu. M. *see* **Arthur, W. Brian; et al., 89a:60076** *and* **89d:60060**

Malvestuto, F. M. Existence of extensions and product extensions for discrete probability distributions. **89e:68022**

Mărgăritescu, Eugen On some Bonferroni inequalities. **89a:60048**

Matthews, Peter Mixing rates for a random walk on the cube. **89a:60030**

Matula, D. W. Expose-and-merge exploration and the chromatic number of a random graph. **89a:05121**

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Men′shikov, M. V. Quantitative estimates and strong inequalities for the critical points of a graph and its subgraph. (Russian) **89f:60122**

(Mukhopadhyay, Asish) *see* **Brennan, Joseph P., 89c:15021**

Palka, Zbigniew *see* **Buckley, Fred, 89i:05245**

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Spencer, Joel Probabilistic methods. **89f:05002**

— ★ Ten lectures on the probabilistic method. **89g:05002**

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Stepanov, V. E. Some features of the structure of a random graph near a critical point. (Russian) **89m:05102**

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Timofeev, E. A. Determination of the expectation of the length of a random minimal tree. **89i:05250**

Wolff, Karl Erich The Perron-Frobenius projection in the theory of graphs, digraphs, designs and stochastic processes. **89b:05065**

Wolfskill, J. *see* **Brennan, Joseph P., 89c:15021**

60D05 Geometric probability, stochastic geometry, random sets [see also 52A22, 53C65]

Affentranger, Fernando Pairs of nonintersecting random flats. **89h:60021**

Baba, Kensuke Pictorial demonstration of stereological principles. (*see* **89g:82013**)

Bárány, I. (*with* Füredi, Z.) On the shape of the convex hull of random points. **89g:60030**

Boland, Philip J. (*with* Proschan, Frank; Tong, Yung Liang) Moment and geometric probability inequalities arising from arrangement increasing functions. **89h:60022**

Davis, Richard Alan (*with* Mulrow, Edward; Resnick, Sidney) Almost sure limit sets of random samples in $\mathbf{R}^d$. **89h:60023**

Ehlers, P. F. *see* **Enns, E. G., 89j:60023**

Enns, E. G. (*with* Ehlers, P. F.) Chords through a convex body generated from within an embedded body. **89j:60023**

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Gloukhian, Edouard Un problème de moyenne dans la boule euclidienne. (English summary) [A mean value problem in the Euclidean sphere] **89e:60024**

Groeneboom, Piet Limit theorems for convex hulls. **89j:60024**

Gronek, Tomasz On the random dislocation of three circular caps on a surface of the sphere. **89d:60017a**

— The random dislocation of circular caps with different radii on a surface of the sphere. **89d:60017b**

Hall, Peter (*with* Smith, Richard L.) The kernel method for unfolding sphere size distributions. **89h:60024**

Hill, Theodore P. Common hyperplane medians for random vectors. **89d:60018**

Huang, Rong Pei Buffon's long needle problem. (Chinese. English summary) **89m:60029**

Huffer, Fred W. Some results concerning random arcs on the circle. **89j:60025**

Hüsler, Jürg Maximal, nonuniform spacings and the coverage problem. **89g:60031**

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Kendall, Wilfrid S. Symbolic computation and the diffusion of shapes of triads. **89m:60030**

König, Dieter Probabilistic characterization of the inner order of random structures. (*see* **89g:82013**)

Le, Hui Ling Strong laws of large numbers for random nonnegative closed convex sets in $\mathbf{R}^d$. (Chinese. English summary) **89i:60025**

— *see also* **Kendall, David G., 89g:60032**

Lloyd, C. J. (*with* Williams, E. J.) Recursive splitting of an interval when the proportions are identical and independent random variables. **89e:60025**

Lyashenko, N. N. Random "granular" images. II. (Russian. English summary) **89i:60026**

Mannion, David A Markov chain of triangle shapes. **89g:60033**

Mikkov, P. An estimate for the volume of a set of polygonal patterns. (Russian summary) **89k:60012**

Molchanov, I. S. Uniform laws of large numbers for the empirical accompanying functionals of random closed sets. (Russian) **89a:60035**

— Convergence of empirical generating functionals of stationary random sets. (Russian) **89g:60034**

Møller, Jesper ★ Random tessellations in $\mathbf{R}^d$. **89a:60036**

— Stereological analysis of particles of varying ellipsoidal shape. **89i:60027**

Mulrow, Edward *see* **Davis, Richard Alan; et al., 89h:60023**

Papaderou-Vogiatzaki, Irini (*with* Schneider, Rolf) A collision probability problem. **89g:60035**

Pederzoli, G. Mixture representation of the random volume content of beta distributed random points in an n-ball. **89d:60020**

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Resnick, Sidney *see* **Davis, Richard Alan; et al., 89h:60023**

Rhee, WanSoo T. (*with* Talagrand, Michel) Exact bounds for the stochastic upward matching problem. **89h:60025**

Schneider, Rolf *see* **Papaderou-Vogiatzaki, Irini, 89g:60035**

Smith, Richard L. *see* **Hall, Peter, 89h:60024**

Talagrand, Michel *see* **Rhee, WanSoo T., 89h:60025**

Tanemura, Masaharu On the stereology of the radial distribution function of hard-sphere systems. (*see* **89g:82013**)

Tong, Yung Liang *see* **Boland, Philip J.; et al., 89h:60022**

de Valk, Vincent The maximal and minimal 2-correlation of a class of 1-dependent 0-1 valued processes. **89f:60013**

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Weiss, V. (*with* Zähle, M.) Geometric measures for random curved mosaics of $\mathbf{R}^d$. **89j:60026**

Wieacker, J. A. *see* **Weil, W., 89e:60026**

Williams, E. J. *see* **Lloyd, C. J., 89e:60025**

Yadin, M. (*with* Zacks, S.) Visibility probabilities on line segments in three-dimensional spaces subject to random Poisson fields of obscuring spheres. **89h:60026**
Zacks, S. *see* **Yadin, M., 89h:60026**
Zähle, M. Random cell complexes and generalised sets. **89g:60037**
— *see also* **Weiss, V., 89j:60026**
Zheng, Ming On the distribution of random lines in the general case. **89f:60014**

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Affentranger, Fernando Generalization of a formula of C. Buchta about the convex hull of random points. **89g:52003a**
— Remarks on the note: "Generalization of a formula of C. Buchta about the convex hull of random points". **89g:52003b**
Aramyan, R. G. Stochastic approximation of convex bodies. (Russian. English and Armenian summaries) **89e:52007**
Baba, Kensuke (*with* Miyamoto, Kiyoshi) Determination of sphere sized distribution from chord length square (CLS) distribution. (*see* **89g:82013**)
Brozius, Henk (*with* de Haan, L.) On limiting laws for the convex hull of a sample. **89h:60036**
Buslaev, A. P. Widths of random vectors and their applications in approximation theory. **89g:41015**
Christiansen, F. B. Epistasis in the multiple locus symmetric viability model. **89k:92026**
Cressie, Noel (*with* Laslett, G. M.) Random set theory and problems of modeling. **89c:62169**
Demmel, James W. The probability that a numerical analysis problem is difficult. **89g:65062**
Gluskin, E. D. Probability in the geometry of Banach spaces. (Russian) **89h:46025**
Goodman, Victor Characteristics of normal samples. **89h:60011**
de Haan, L. *see* **Brozius, Henk, 89h:60036**
Henze, N. On the fraction of random points with specified nearest-neighbour interrelations and degree of attraction. **89c:60063**
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Huffer, Fred W. Divided differences and the joint distribution of linear combinations of spacings. **89e:60030**
Jourlin, M. (*with* Laget, B.; Matheron, G.; Meyer, Fernand Romain; Preteux, F.; Schmitt, Michel; Serra, J.) ★ Image analysis and mathematical morphology. Vol. 2. **89m:68139**
Kahane, J.-P. Disintegration of measures according to the dimension and its relation with random coverings and multiplicative chaos. **89g:28017**
Kendall, David G. Applied probability—past, present and future. **89m:01062**
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Liao, Ming An independence property of Riemannian Brownian motions. **89j:58143**
Mani-Levitska, Peter Random Steiner symmetrizations. **89a:52012**
— A simple proof of the kinematic formula. **89e:53105**
Matheron, G. *see* **Jourlin, M.; et al., 89m:68139**
Matthews, Peter Covering problems for Brownian motion on spheres. **89a:60190**
Meyer, Fernand Romain *see* **Jourlin, M.; et al., 89m:68139**
Miao, Quan Sheng von Neumann's sampling technique using points thrown uniformly on some special surfaces. (Chinese. English summary) **89b:62043**
Miles, R. E. Spatial tessellations and their stereology. (*see* **89g:82013**)
Miyamoto, Kiyoshi *see* **Baba, Kensuke,** (**89g:82013**)
Mueller, C. A counterexample for Brownian motion on manifolds. **89k:58297**
Petunin, Yu. I. (*with* Semeĭko, N. G.) A random process of segments on a two-dimensional Euclidean sphere. I. (Russian) **89g:60170**
Picard, Dominique B. Invariance properties of metrics and connections in regular families. **89m:53048**
Preteux, F. *see* **Jourlin, M.; et al., 89m:68139**
Schmitt, Michel *see* **Jourlin, M.; et al., 89m:68139**
Semeĭko, N. G. *see* **Petunin, Yu. I., 89g:60170**
Serra, J. *see* **Jourlin, M.; et al., 89m:68139**

60Exx Distribution theory [see also 62Exx, 62Hxx]

Items with secondary classifications in 60Exx

Chow, Yuan Shih (*with* Teicher, Henry) ★ Probability theory. **89e:60001**
Teicher, Henry *see* **Chow, Yuan Shih, 89e:60001**

60E05 Distributions: general theory

Abouammoh, A. M. On discrete α-unimodality. **89j:60027a**
— Correction to: "On discrete α-unimodality". **89j:60027b**
Aki, Sigeo *see* **Hirano, Katuomi, 89c:60014**
Antonov, S. N. A class of limit distributions. (Russian) **89f:60015**
Azlarov, T. A. *see* **Pillai, R. N., 89e:60032**
Backus, George Isotropic probability measures in infinite-dimensional spaces. **89a:60037**
— Addendum: "Isotropic probability measures in infinite-dimensional spaces" [Proc. Nat. Acad. Sci. U.S.A. **84** (1987), no. 24, 8755–8757; MR 89a:60037]. **89m:60031**
Baringhaus, L. (*with* Henze, N.; Morgenstern, D.) Some elementary proofs of the normality of $XY/(X^2+Y^2)^{1/2}$ when X and Y are normal. **89g:60038**
Baxter, Laurence A. (*with* Kim, Chul) Bounding the stochastic performance of continuum structure functions. I. **89e:60027**
— (*with* Kim, Chul) Bounding the stochastic performance of continuum structure functions. II. **89e:60028**
Berenshteĭn, A. D. (*with* Vaĭnshteĭn, A. D.; Kreĭnin, A. Ya.) The convexity property of the Poisson distribution and its applications in queueing theory. (Russian) **89h:60027**
Bryc, Włodzimierz Remarks on properties of probability distributions determined by conditional moments. **89e:60029**
Chen, Jeesen *see* **Rubin, Herman, 89j:60029**
Chistyakov, G. P. Stability of the decompositions of lattice infinitely divisible distribution functions of Yu. V. Linnik's class $\mathfrak{L}$. (Russian) **89b:60031**
Daley, D. J. Tight bounds on the exponential approximation of some aging distributions. **89d:60021**
Dunau, Jean-Louis (*with* Sénateur, Henri) A characterization of the type of the Cauchy-Hua measure on real symmetric matrices. **89g:60039**
Finocchiaro, M. C. (*with* Sacchetti, Dario) Sampling of an infinite population: a quasi-uniform distribution on the integers, and quasi-exchangeability. (Italian. English summary) **89a:60038**
Flusser, Peter Theory, simulation and reality. (Not in MR)
Geluk, J. L. On an application of regular variation in probability theory. **89g:60040**
Goldie, Charles M. (*with* Resnick, Sidney) Distributions that are both subexponential and in the domain of attraction of an extreme-value distribution. **89k:60013**
Hannan, James *see* **Nogami, Yoshiko, 89e:60031**
Henze, N. *see* **Baringhaus, L.; et al., 89g:60038**
Hirano, Katuomi (*with* Aki, Sigeo) Properties of the extended distributions of order k. **89c:60014**
Holzer, Silvano (*with* Sempi, Carlo) A remark on metrics for finitely additive distribution functions. **89c:60015**
Hudson, William N. (*with* Veeh, Jerry Alan; Weiner, Daniel Charles) Moments of distributions attracted to operator-stable laws. **89g:60041**
Huffer, Fred W. Divided differences and the joint distribution of linear combinations of spacings. **89e:60030**
Jensen, J. L. Uniform saddlepoint approximations. **89g:60042**
Kandelaki, N. P. A collection of Gaussian random vectors. (Russian. English and Georgian summaries) **89a:60039**
Kawata, Tatsuo (*with* Nakata, Tomoichi) Remarks on the mean concentration function of a random variable. **89g:60043**
Kim, Chul *see* **Baxter, Laurence A., 89e:60027** *and* **89e:60028**
Klebanov, L. B. Reconstruction of a distribution from the mean values of the minima of a random number of random variables. (Russian. English summary) **89k:60014**
Klüppelberg, Claudia Subexponential distributions and integrated tails. **89c:60016**
Kotz, S. (*with* Steutel, F. W.) Note on a characterization of exponential distributions. **89h:60028**
Kreĭnin, A. Ya. *see* **Berenshteĭn, A. D.; et al., 89h:60027**
Luo, Xin Hua Poisson distribution of order K and its properties. **89c:60017**
Lyubimov, A. K. *see* **Zorin, V. A., 89i:60029**
Mačys, Juozas Independent identically distributed summands of an approximately binomial sum. **89g:60044**
Min′ko, A. A. (*with* Petunin, Yu. I.) Unimodality of the noncentral χ^2-distribution. **89a:60040**
Morgenstern, D. *see* **Baringhaus, L.; et al., 89g:60038**
Nagaev, A. V. (*with* Shkol′nik, S. M.) Some properties of symmetric stable distributions that are close to the normal distribution. **89f:60016**
Nakata, Tomoichi *see* **Kawata, Tatsuo, 89g:60043**
Nelsen, Roger B. Consequences of the memoryless property for random variables. **89d:60022**
Nogami, Yoshiko (*with* Hannan, James) Bounds for difference of two integrals of a bounded function in terms of extensions of Lévy metric. **89e:60031**
O'Cinneide, Colm A. Characterisation of a multivariate stochastic ordering. **89k:60015**
Omey, E. (*with* Willekens, Eric) Second-order behaviour of distributions subordinate to a distribution with finite mean. **89b:60032**
— Asymptotic properties of convolution products of functions. **89j:60028**
Petunin, Yu. I. *see* **Min′ko, A. A., 89a:60040**
Pillai, R. N. α-Laplace stochastic process. **89b:60033**
— (*with* Azlarov, T. A.) Characterization of a semi-α-Laplacian distribution. (Russian) **89e:60032**
Pokhodzeĭ, B. B. Constructing random variables according to the probabilities of their binary digits. (Russian) **89e:60033**
Pratsevityĭ, N. V. Random variables with independent Q_2-symbols. (Russian) **89g:60045**
Quesada, José Juan On independence in some families of multivariate distributions. **89h:60029**
Resnick, Sidney *see* **Goldie, Charles M., 89k:60013**
Rockower, Edward B. Integral identities for random variables. **89a:60041**
Rubin, Herman (*with* Chen, Jeesen) Some stochastic processes related to random density functions. **89j:60029**
Sacchetti, Dario *see* **Finocchiaro, M. C., 89a:60038**
Saliev, Sh. T. Some estimates for the concentration function of sums of a random number of random variables. (Russian) (*see* **89g:60002**)
Sasvári, Zoltán *see* **Wolf, Werner, 89k:60017**
Sempi, Carlo *see* **Holzer, Silvano, 89c:60015**
Sénateur, Henri *see* **Dunau, Jean-Louis, 89g:60039**
Shanmugam, Ramalingam Distribution of a sum of independent positive generalized discrete random variables. **89m:60032**
Shimizu, Ryoichi Error bounds for asymptotic expansion of the scale mixtures of the normal distribution. **89h:60030**
Shkol′nik, S. M. *see* **Nagaev, A. V., 89f:60016**
Skovgaard, Ib Saddlepoint expansions for conditional distributions. **89g:60046**
Smirnov, A. K. Some properties of distributions in K. Urbanik's algebras. **89i:60028**
Steutel, F. W. *see* **Kotz, S., 89h:60028**
Szabłowski, Paweł J. On distributive relations involving conditional moments and the probability distribution of the conditioning random variable. **89f:60017**
Teugels, J. L. On Pareto-type distributions. **89c:60018**
Ulanovskiĭ, A. M. Determination of the n-fold convolution of a distribution function from its values on a system of intervals. (Russian. English summary) **89g:60047**
— Unique determination of convolutions of measures in $\mathbf{R}^m$, $m\geq 2$, by restrictions to sets. (Russian) **89m:60033**
Urbanik, K. A counterexample on generalized convolutions. **89d:60023**
Vaĭnshteĭn, A. D. *see* **Berenshteĭn, A. D.; et al., 89h:60027**

Vakhaniya, N. N. Criteria for accuracy of measurement in the presence of random noise. (Russian. English summary) **89f:60018a**
— Lord's paradox on mean absolute deviation. **89f:60018b**
Veeh, Jerry Alan *see* **Hudson, William N.; et al., 89g:60041**
Warmuth, Walter Marginal-Fréchet-bounds for multidimensional distribution functions. **89h:60031**
Watson, Geoffrey S. Some discrete distributions associated with orthogonal polynomials. **89k:60016**
Weiner, Daniel Charles *see* **Hudson, William N.; et al., 89g:60041**
Willekens, Eric *see* **Omey, E., 89b:60032**
Wolf, Werner (*with* Sasvári, Zoltán) Some remarks on the existence of the density of weighted sums. (Russian) **89k:60017**
Zempléni, A. On the arithmetical properties of the multiplicative structure of probability distribution functions. **89m:60034**
Zorin, V. A. (*with* Lyubimov, A. K.) Distribution of quadratic forms of Gaussian vectors. (Russian) **89i:60029**

Items with secondary classifications in 60E05

Bhattacharyya, B. B. One-sided Chebyshev inequality when the first four moments are known. **89a:60047**
Bock, M. E. (*with* Solomon, Herbert) Tables for distributions of quadratic forms. **89i:62181**
Buldygin, V. V. (*with* Kozachenko, Yu. V.) Sub-Gaussian random vectors and processes. **89c:60056**
Capéraà, Philippe Tail ordering and asymptotic efficiency of rank tests. **89a:62117**
Consul, P. C. ★ Generalized Poisson distributions. **89m:62002**
(Gauß, Carl Friedrich) *see* **Sheĭnin, O. B., 89k:01021**
Griffiths, R. C. On the distribution of points in a Poisson Dirichlet process. **89g:92026**
de Gunst, M. C. M. On the distribution of general quadratic functions in normal vectors. **89f:62046**
Gupta, Ramesh C. (*with* Kirmani, S. N. U. A.) On order relations between reliability measures. **89c:60101**
Haigh, John The distribution of evolutionarily stable strategies. **89c:92042**
van Hove, L. Negative binomial multiplicity distributions in continuous domains. **89d:60014**
Jeganathan, P. On the strong approximation of the distributions of estimators in linear stochastic models. I, II. Stationary and explosive AR models. **89j:62043**
Jennrich, Robert I. (*with* Port, S. C.) Radial and directional parts of a random vector. **89b:62100**
Johnstone, Iain (*with* MacGibbon, K. Brenda) Une mesure d'information caractérisant la loi de Poisson. [An information measure characterizing the Poisson distribution] **89h:62024**
Kirmani, S. N. U. A. *see* **Gupta, Ramesh C., 89c:60101**
Kozachenko, Yu. V. *see* **Buldygin, V. V., 89c:60056**
Kruglov, V. M. (*with* Ulanovskiĭ, A. M.) Mixtures of probability distribution, which are determined uniquely by their behavior on a half-line. (Russian) **89d:60025**
Lloyd, C. J. (*with* Williams, E. J.) Recursive splitting of an interval when the proportions are identical and independent random variables. **89e:60025**
MacGibbon, K. Brenda *see* **Johnstone, Iain, 89h:62024**
Mazmanishvili, A. S. *see* **Virchenko, Yu. P., 89b:60107**
Moothathu, T. S. K. Exceptional convergence of the sample variance. **89f:62016**
Muliere, Pietro (*with* Scarsini, M.) Characterization of a Marshall-Olkin type class of distributions. **89d:62015**
Nikulin, V. N. Stability of the characterization of the von Mises distribution. (Russian) **89e:62019**
Panaretos, John Convolution and mixing properties of the damage model. (French and Italian summaries) **89a:62037**
— *see also* **Xekalaki, E., 89c:62033**
Pancheva, E. Max-stability. **89e:60053**
Port, S. C. *see* **Jennrich, Robert I., 89b:62100**
Pusz, Jerzy On a characterization of probability distributions by conditional expectations. **89g:62023**
Saliev, Sh. T. Asymptotic expansions for the distribution of sums of a random number of independent random variables with regularly changing tails. (Russian) (*see* **89g:60002**)
Scarsini, M. *see* **Muliere, Pietro, 89d:62015**
Seaman, John W., Jr. (*with* Young, Dean M.; Turner, Danny W.) On the variance of certain bounded random variables. **89g:60057**
Sempi, Carlo Orlicz metrics for weak convergence of distribution functions. (Italian summary) **89b:46040**
Sheĭnin, O. B. C. F. Gauss and the χ-square distribution. **89k:01021**
Shukurlaeva, Sh. Kh. *see* **Volodin, N. A.; et al., 89h:62029**
Skala, Heinz J. On σ-additive priors, σ-coherence, and the existence of posteriors. **89c:62008**
Solomon, Herbert *see* **Bock, M. E., 89i:62181**
Stadje, W. An extension theorem for convex functions and an application to Teicher's characterization of the normal distribution. **89g:26010**
Stam, A. J. Polynomials of binomial type and compound Poisson processes. **89d:60134**
Takada, Yoshikazu Two-stage procedures for a multivariate normal distribution. **89f:62050**
Takahashi, Rinya Characterizations of a multivariate extreme value distribution. **89h:62028**
Turner, Danny W. *see* **Seaman, John W., Jr.; et al., 89g:60057**
Ulanovskiĭ, A. M. *see* **Kruglov, V. M., 89d:60025**
Umarov, A. Yu. *see* **Volodin, N. A.; et al., 89h:62029**
de Valk, Vincent The maximal and minimal 2-correlation of a class of 1-dependent 0-1 valued processes. **89f:60013**
Vetrov, L. G. Bilinear expansions of two-dimensional probability densities in orthogonal polynomials. (Russian) **89g:60062**
Virchenko, Yu. P. (*with* Mazmanishvili, A. S.) Unimodality of a class of distributions connected with a complex Ornstein-Uhlenbeck process. (Russian. English summary) **89b:60107**
Volodin, N. A. (*with* Umarov, A. Yu.; Shukurlaeva, Sh. Kh.) Characterization properties of a multidimensional exponential distribution and their stability. (Russian) **89h:62029**
Williams, E. J. *see* **Lloyd, C. J., 89e:60025**
Xekalaki, E. (*with* Panaretos, John) On the association of the Pareto and the Yule distribution. **89c:62033**
Yakymiv, A. L. Asymptotic behavior of a class of infinitely divisible distributions. (Russian) **89d:60027**
Young, Dean M. *see* **Seaman, John W., Jr.; et al., 89g:60057**

60E07 Infinitely divisible distributions; stable distributions

Artikis, Theodore On certain classes of distributions. **89g:60048**
Bondesson, Lennart On the infinite divisibility of the half-Cauchy and other decreasing densities and probability functions on the nonnegative line. **89g:60049**
— A remarkable property of generalized gamma convolutions. **89d:60024**
Braverman, M. Sh. A method for the characterization of probability distributions. (Russian) **89k:60018**
Chistyakov, G. P. Factorization of the probability distributions of Yu. V. Linnik's class L. I. (Russian) **89a:60042a**
— Factorization of the probability distributions of Yu. V. Linnik's class L. II. (Russian) **89a:60042b**
Danial, Edward J. Generalization to the sufficient conditions for a discrete random variable to be infinitely divisible. **89e:60034**
Gawronski, Wolfgang Asymptotic forms for the derivatives of one-sided stable laws. **89g:60050**
Hansen, Bjørn G. On log-concave and log-convex infinitely divisible sequences and densities. **89i:60030**
Huff, Barthel W. Remarks on mixtures of compound Poisson laws. **89b:60034**
Januškevičienė, O. Rate of convergence of quasistable laws to the normal law. **89i:60031**
Jurek, Zbigniew J. Random integral representations for classes of limit distributions similar to Lévy class L_0. **89h:60032**
Krapavickaitė, D. Discrete semistable probability distributions. (Russian) **89k:60019**
Kruglov, V. M. (*with* Ulanovskiĭ, A. M.) Mixtures of probability distribution, which are determined uniquely by their behavior on a half-line. (Russian) **89d:60025**
Pillai, R. N. Generalized geometric stable distributions. (Russian. English summary) **89m:60035**
Port, S. C. (*with* Vitale, R. A.) Positivity of stable densities. **89d:60026**
Ruzsa, Imre Z. Infinite divisibility. **89g:60051**
— Infinite divisibility. II. **89m:60036**
Samorodnitsky, Gennady Extrema of skewed stable processes. **89i:60032**
Sato, Ken-iti Some classes generated by exponential distribution. **89g:60052**
Székely, Gábor J. Autophage and allelophage probability distributions. **89g:60053**
Szekli, R. A note on preservation of self-decomposability under geometric compounding. **89b:60035**
Ulanovskiĭ, A. M. *see* **Kruglov, V. M., 89d:60025**
Vitale, R. A. *see* **Port, S. C., 89d:60026**
Yakymiv, A. L. Asymptotic behavior of a class of infinitely divisible distributions. (Russian) **89d:60027**

Items with secondary classifications in 60E07

Bakštys, G. (*with* Paulauskas, Vygantas) On the approximation of distributions of sums of independent Banach-space-valued random elements with infinitely divisible laws. (Russian) **89c:60011**
Berg, Christian The cube of a normal distribution is indeterminate. **89b:60041**
Bondesson, Lennart (*with* Peetre, Jaak) The classes V_a are monotone. **89m:44014**
Brown, Lawrence D. (*with* Rinott, Yosef) Inequalities for multivariate infinitely divisible processes. **89e:60035**
Chistyakov, G. P. Stability of the decompositions of lattice infinitely divisible distribution functions of Yu. V. Linnik's class $\mathfrak{L}$. (Russian) **89b:60031**
Daugavet, A. I. Estimates for the rate of convergence of numeric characteristics in limit theorems with a stable limit law. (Russian) **89b:60053**
Divanji, G. *see* **Vasudeva, R., 89g:60116**
Galambos, Janos (*with* Obretenov, A.) Restricted domains of attraction of $\exp(-e^{-x})$. **89c:60023**
Heinrich, Lothar On the central limit problem for sequences and fields of m-dependent random variables. **89i:60048**
Hsing, Tailen On the characterization of certain point processes. **89b:60129**
Hudson, William N. (*with* Jurek, Zbigniew J.; Veeh, Jerry Alan) The symmetry group and exponents of operator stable probability measures. **89b:60093**
Janssen, Arnold Uniform convergence of sums of order statistics to stable laws. **89j:60038**
Jurek, Zbigniew J. *see* **Hudson, William N.; et al., 89b:60093**
Kholevo, A. S. Conditionally positive definite functions in quantum probability. **89d:46061**
Kubacki, K. S. Weak convergence of random sums to infinitely divisible distributions. **89e:60051**
Letac, G. (*with* Seshadri, Vanamamalai) Haight's distributions as a natural exponential family. **89b:62036**
Lewandowski, Maciej (*with* Żak, Tomasz) On the density of the distribution of p-stable seminorms, $0 < p < 1$. **89c:60010**
Martins, E. G. (*with* Pestana, Dinis D.) The extremal limit problem—extensions. **89g:60080**
Masuda, Yasushi *see* **Sumita, Ushio, 89a:60045**
Mijnheer, Joop On the rate of convergence of the sum of the sample extremes. **89k:60033**
Obretenov, A. *see* **Galambos, Janos, 89c:60023**
Omey, E. (*with* Willekens, Eric) Second-order behaviour of distributions subordinate to a distribution with finite mean. **89b:60032**
Pancheva, E. Multidimensional max-self-decomposable laws under nonlinear normalization. **89h:60041**
Paulauskas, Vygantas *see* **Bakštys, G., 89c:60011**
Peetre, Jaak *see* **Bondesson, Lennart, 89m:44014**
Pestana, Dinis D. Time series fitting of almost stable stochastic processes. **89b:62193**

— *see also* **Martins, E. G., 89g:60080**
Rinott, Yosef *see* **Brown, Lawrence D., 89e:60035**
Ritter, Gunter A note on the Lévy-Khinchin representation of negative definite functions on Hilbert spaces. **89d:60007**
Sasvári, Zoltán (*with* Wolf, Werner) On the existence of the density of weighted sums. **89j:60041**
Sato, Ken-iti On zeros of a system of polynomials and application to sojourn time distributions of birth-and-death processes. **89h:60144**
Sato, Yumiko Remarks on the canonical representation of stationary linear symmetric α-stable processes ($0 < \alpha < 1$). **89g:60135**
Schneider, W. R. Generalized Lévy distributions as limit laws. **89g:60055**
Seshadri, Vanamamalai *see* **Letac, G., 89b:62036**
Sumita, Ushio (*with* Masuda, Yasushi) Classes of probability density functions having Laplace transforms with negative zeros and poles. **89a:60045**
Tortrat, A. Le support des lois indéfiniment divisibles dans un groupe abélien localement compact. [The support of infinitely divisible laws in a locally compact abelian group] **89h:60016**
Vasudeva, R. (*with* Divanji, G.) Law of the iterated logarithm for the increments of stable subordinators. **89g:60116**
Veeh, Jerry Alan *see* **Hudson, William N.; et al., 89b:60093**
Vol′kovich, V. È. Infinitely divisible distributions in algebras with stochastic convolution. **89j:60017**
Willekens, Eric *see* **Omey, E., 89b:60032**
Wolf, Werner *see* **Sasvári, Zoltán, 89j:60041**
Żak, Tomasz *see* **Lewandowski, Maciej, 89c:60010**
Zempléni, A. The description of the class I_0 in the multiplicative structure of distribution functions. **89b:60046**
Zinchenko, N. M. Asymptotics of sums of random variables from the domain of attraction of a stable law. (Russian) **89b:60066**

60E10 Characteristic functions; other transforms

Ammons, Jane C. *see* **Platzman, Loren K.; et al., 89b:60036**
Bartholdi, John J., III *see* **Platzman, Loren K.; et al., 89b:60036**
Chistyakov, G. P. On the problem of α-decompositions of the normal distribution. **89c:60019**
Dabrowski, André Robert Joint characteristic functions and associated sequences. **89c:60020**
Golinskiĭ, L. B. An estimate for stability in the Marcinkiewicz theorem for fourth-degree polynomials. (Russian) **89a:60043**
Janković, Slobodanka A characteristic property for maxima of random variables with trivial analogue when sums are concerned. **89d:60028**
Januškevičius, R. Applications of convolution equations in problems of the stability of characterizations of probability distributions. (Russian. English and Lithuanian summaries) **89g:60054**
Laue, G. Tauberian and abelian theorems for characteristic functions. (Russian) **89a:60044**
Masuda, Yasushi *see* **Sumita, Ushio, 89a:60045**
Naumov, V. A. Distribution functions with the rational Laplace-Stieltjes transform. (Russian) (*see* **89a:00001**)
Ostrovskiĭ, I. V. Zeros of entire characteristic functions of distributions concentrated on a half-line. **89d:60029**
Platzman, Loren K. (*with* Ammons, Jane C.; Bartholdi, John J., III) A simple and efficient algorithm to compute tail probabilities from transforms. **89b:60036**
Schneider, W. R. Generalized Lévy distributions as limit laws. **89g:60055**
Sumita, Ushio (*with* Masuda, Yasushi) Classes of probability density functions having Laplace transforms with negative zeros and poles. **89a:60045**
Vincze, István On a probabilistic characterization theorem. **89i:60033**
Voorn, W. J. Characterization of the logistic and loglogistic distributions by extreme value related stability with random sample size. **89b:60037**

Items with secondary classifications in 60E10

Artikis, Theodore On certain classes of distributions. **89g:60048**
Chistyakov, G. P. Factorization of the probability distributions of Yu. V. Linnik's class *L*. I. (Russian) **89a:60042a**
— Factorization of the probability distributions of Yu. V. Linnik's class *L*. II. (Russian) **89a:60042b**
Gallardo, Léonard (*with* Gebuhrer, Olivier) Marches aléatoires et hypergroupes. (English summary) [Random walks and hypergroups] **89g:60024**
Gamkrelidze, N. G. Application of a smoothness function in the proof of a local limit theorem. **89i:60047**
Gawronski, Wolfgang Asymptotic forms for the derivatives of one-sided stable laws. **89g:60050**
Gebuhrer, Olivier *see* **Gallardo, Léonard, 89g:60024**
Gol′dberg, A. A. (*with* Ostrovskiĭ, I. V.) Indicators of entire absolutely monotone functions of finite order. (Russian) **89a:30024**
Huff, Barthel W. Remarks on mixtures of compound Poisson laws. **89b:60034**
Januškevičius, R. *see* **Zinger, A. A.; et al., 89b:62039**
Jensen, J. L. Uniform saddlepoint approximations. **89g:60042**
Klebanov, L. B. *see* **Zinger, A. A.; et al., 89b:62039**
Maĭster, V. Estimate for the remainder term of the asymptotic expansion of the density of distribution of the sum of independent random variables. (Russian. English summary) **89b:60059**
Ostrovskiĭ, I. V. *see* **Gol′dberg, A. A., 89a:30024**
Pillai, R. N. Generalized geometric stable distributions. (Russian. English summary) **89m:60035**
Rockower, Edward B. Integral identities for random variables. **89a:60041**
Skovgaard, Ib Saddlepoint expansions for conditional distributions. **89g:60046**
Smirnov, A. K. Some properties of distributions in K. Urbanik's algebras. **89i:60028**
Szekli, R. A note on preservation of self-decomposability under geometric compounding. **89b:60035**
Tziritas, Georgios G. On the distribution of positive-definite Gaussian quadratic forms. **89a:60122**
Ulanovskiĭ, A. M. Determination of the n-fold convolution of a distribution function from its values on a system of intervals. (Russian. English summary) **89g:60047**
Vajda, Steven Deterministic equivalents of probabilistic constraints. **89j:90195**
Zinger, A. A. (*with* Klebanov, L. B.; Januškevičius, R.) Estimates for stability in a theorem of G. Pólya. (Russian. English and Lithuanian summaries) **89b:62039**

60E15 Inequalities (Chebyshev, Kolmogorov, etc.)

Arnold, Barry C. ★ Majorization and the Lorenz order: a brief introduction. **89a:60046**
— (*with* Brockett, Patrick L.) Variance bounds using a theorem of Pólya. **89d:60030**
Bagirov, È. B. Lower bounds for “tails” of distributions of cubic forms of normally distributed random variables. (Russian) **89m:60037**
Bakirov, N. K. Extrema of the distribution of the statistic S^2. **89i:60034**
Bhattacharyya, B. B. One-sided Chebyshev inequality when the first four moments are known. **89a:60047**
Brockett, Patrick L. *see* **Arnold, Barry C., 89d:60030**
Brown, Lawrence D. (*with* Rinott, Yosef) Inequalities for multivariate infinitely divisible processes. **89e:60035**
Chan, Wai (*with* D'Abadie, Catherine; Proschan, Frank) Stochastic rearrangement inequalities. **89f:60019**
Cheng, Kan (*with* Hu, Yi Min) Some inequalities under certain stochastic orders. (Chinese. English summary) **89d:60031**
D'Abadie, Catherine *see* **Chan, Wai; et al., 89f:60019**
Dharmadhikari, Sudhakar (*with* Joag-Dev, Kumar) ★ Unimodality, convexity, and applications. **89k:60020**
Doyle, Peter G. *see* **Fishburn, Peter C.; et al., 89i:60035**
Ellis, Richard S. Inequalities for multivariate compound Poisson distributions. **89e:60036**
Fill, James Allen Bounds on the coarseness of random sums. **89j:60030**
Fishburn, Peter C. (*with* Doyle, Peter G.; Shepp, L. A.) The match set of a random permutation has the FKG property. **89i:60035**
Hill, Theodore P. A proportionality principle for partitioning problems. **89m:60038**
Hu, Yi Min *see* **Cheng, Kan, 89d:60031**
Jakimavičius, D. *see* **Statulevičius, Vytautas, 89k:60021**
Joag-Dev, Kumar *see* **Dharmadhikari, Sudhakar, 89k:60020**
Komorowski, Ryszard On the best possible constants in the Khintchine inequality for $p \geq 3$. **89e:60037**
Liu, Wu Wang A generalization of an inequality for convex functions. (Chinese. English summary) **89m:60039**
Major, P. On the tail behaviour of the distribution function of multiple stochastic integrals. **89j:60031**
Mărgăritescu, Eugen On some Bonferroni inequalities. **89a:60048**
— Improved Bonferroni inequalities. **89m:60040**
Matsak, I. K. (*with* Plichko, A. N.) The Khinchin inequality for k-multiple products of independent random variables. (Russian) **89m:60041**
Móri, Tamás F. A studentized Chebyshev inequality. **89e:60038**
Nevzorov, V. B. (*with* Petrov, Valentin Vladimirovich) Inequalities for the maximum of partial sums and their applications. **89i:60036**
Pandey, D. K. A note on multivariate generalizations of Tchebychev's inequality. **89b:60038**
Pap, G. (*with* Richter, Wolf-Dieter) Zum asymptotischen Verhalten der Verteilungen und der Dichten gewisser Funktionale Gauss'scher Zufallsvektoren. [On the asymptotic behavior of the distributions and the densities of certain functionals of Gaussian random vectors] **89g:60056**
Petrov, Valentin Vladimirovich Probability inequalities for the maximum of sums of random variables. (Russian) **89m:60042**
— *see also* **Nevzorov, V. B., 89i:60036**
Plichko, A. N. *see* **Matsak, I. K., 89m:60041**
Proschan, Frank *see* **Chan, Wai; et al., 89f:60019**
Richter, Wolf-Dieter *see* **Pap, G., 89g:60056**
Rinott, Yosef *see* **Brown, Lawrence D., 89e:60035**
Sato, Ken-iti Modes and moments of unimodal distributions. **89b:60039**
Seaman, John W., Jr. (*with* Young, Dean M.; Turner, Danny W.) On the variance of certain bounded random variables. **89g:60057**
Shaked, M. (*with* Tong, Yung Liang) Inequalities for probability contents of convex sets via geometric average. **89h:60033**
Shanthikumar, J. George Stochastic majorization of random variables with proportional equilibrium rates. **89b:60040**
Shepp, L. A. *see* **Fishburn, Peter C.; et al., 89i:60035**
Statulevičius, Vytautas (*with* Jakimavičius, D.) Estimates for cumulants and centered moments of mixing random processes. II. **89k:60021**
Tong, Yung Liang *see* **Shaked, M., 89h:60033**
Turner, Danny W. *see* **Seaman, John W., Jr.; et al., 89g:60057**
Winkler, Gerhard Extreme points of moment sets. **89i:60037**
Young, Dean M. *see* **Seaman, John W., Jr.; et al., 89g:60057**
Zhao, Lin Cheng An inequality concerning the deviation between theoretical and empirical distributions. **89i:60038**

Items with secondary classifications in 60E15

de Acosta, A. A decoupling inequality for multilinear functions of stable vectors. **89h:60004**
Bapat, R. B. Multinomial probabilities, permanents and a conjecture of Karlin and Rinott. **89k:15008**
Barbour, A. D. (*with* Holst, Lars) Some applications of the Stein-Chen method for proving Poisson convergence. **89m:60046**
Baxter, Laurence A. (*with* Kim, Chul) Bounding the stochastic performance of continuum structure functions. I. **89e:60027**
— (*with* Kim, Chul) Bounding the stochastic performance of continuum structure functions. II. **89e:60028**

Boland, Philip J. (*with* Proschan, Frank; Tong, Yung Liang) Moment and geometric probability inequalities arising from arrangement increasing functions. **89h:60022**

— (*with* Proschan, Frank) Multivariate arrangement increasing functions with applications in probability and statistics. **89d:62042**

Bondesson, Lennart On the infinite divisibility of the half-Cauchy and other decreasing densities and probability functions on the nonnegative line. **89g:60049**

Bretagnolle, Jean Hétérogénéité et information de Kullback. (English summary) [Heterogeneity and Kullback's information] **89k:94026**

Bulinskiĭ, A. V. (*with* Doukhan, Paul) Inégalités de mélange fort utilisant des normes d'Orlicz. (English summary) [Strong mixing moment inequalities using Orlicz norms] **89b:60017**

Bychkova, T. V. Probability inequalities for sums of random elements. (Russian) **89e:60014**

Chen, Louis H. Y. The central limit theorem and Poincaré-type inequalities. **89b:60051**

Dam, Z. T. *see* **Formanov, Sh. K., 89h:60104**

Devroye, Luc Asymptotic performance bounds for the kernel estimate. **89j:62051**

Doukhan, Paul *see* **Bulinskiĭ, A. V., 89b:60017**

Dragomir, Sever Silvestru *see* **Matei, St., 89h:13035**

Dubins, Lester E. (*with* Schwarz, Gideon) A sharp inequality for sub-martingales and stopping-times. **89m:60101**

Ebrahimi, Nader (*with* Ramalingam, T.) On the dependence structure of hitting times of univariate processes. **89e:60175**

Formanov, Sh. K. (*with* Dam, Z. T.) Estimates for the concentration function of sums of random variables connected in an inhomogeneous Markov chain. (Russian) **89h:60104**

Holst, Lars *see* **Barbour, A. D., 89m:60046**

Jacka, S. D. Doob's inequalities revisited: a maximal H^1-embedding. **89j:60054**

Kabe, D. G. On some unresolved conjectures in statistics. **89k:62069**

Kawata, Tatsuo (*with* Nakata, Tomoichi) Remarks on the mean concentration function of a random variable. **89g:60043**

Kemperman, J. H. B. Geometry of the moment problem. **89h:44004**

Kim, Chul *see* **Baxter, Laurence A., 89e:60027** *and* **89e:60028**

Kwapień, S. *see* **Schütt, C.,** (**89b:46005**)

Lindqvist, Bo Henry Monotone and associated Markov chains, with applications to reliability theory. **89b:60172**

Marco, Virgil R. *see* **Young, Dean M.; et al., 89k:62021**

Matei, St. (*with* Dragomir, Sever Silvestru) Inequalities of Chebysev-Grüss type. (Romanian summary) **89h:13035**

Nakata, Tomoichi *see* **Kawata, Tatsuo, 89g:60043**

Pfeifer, D. On the distance between mixed Poisson and Poisson distributions. **89c:62037**

Proschan, Frank *see* **Boland, Philip J., 89d:62042** *and* **89h:60022**

Ramalingam, T. *see* **Ebrahimi, Nader, 89e:60175**

Rinott, Yosef (*with* Samuel-Cahn, Ester) Comparisons of optimal stopping values and prophet inequalities for negatively dependent random variables. **89e:60090**

Saffari, Bahman (*with* Smith, Brent Pendleton) Une nouvelle méthode d'extrapolation améliorant des inégalités classiques de convexité sur les normes L^p et les moments. (English summary) [A new extrapolation method improving classical convexity inequalities on L^p norms and moments] **89i:26019**

Samuel-Cahn, Ester *see* **Rinott, Yosef, 89e:60090**

Sato, Ken-iti Some classes generated by exponential distribution. **89g:60052**

Schütt, C. (*with* Kwapień, S.) Quelques inégalités combinatoires et probabilistes. [Some combinatorial and probabilistic inequalities] (*see* **89b:46005**)

Schwarz, Gideon *see* **Dubins, Lester E., 89m:60101**

Seaman, John W., Jr. *see* **Young, Dean M.; et al., 89k:62021**

Smith, Brent Pendleton *see* **Saffari, Bahman, 89i:26019**

Tong, Yung Liang Some majorization inequalities in multivariate statistical analysis. **89m:62050**

— *see also* **Boland, Philip J.; et al., 89h:60022**

Turner, Danny W. *see* **Young, Dean M.; et al., 89k:62021**

Vakhaniya, N. N. Criteria for accuracy of measurement in the presence of random noise. (Russian. English summary) **89f:60018a**

— Lord's paradox on mean absolute deviation. **89f:60018b**

Warmuth, Walter Marginal-Fréchet-bounds for multidimensional distribution functions. **89h:60031**

Watson, Geoffrey S. A method for discovering Kantorovich-type inequalities and a probabilistic interpretation. **89a:15018**

Young, Dean M. (*with* Turner, Danny W.; Seaman, John W., Jr.; Marco, Virgil R.) Probability inequalities for continuous unimodal random variables with finite support. **89k:62021**

60E99 None of the above, but in this section

Alsina, C. Truncations of distribution functions. **89g:60058**

— (*with* Schweizer, B.) Mixtures are not derivable. **89i:60039**

Berg, Christian The cube of a normal distribution is indeterminate. **89b:60041**

Borovkov, K. A. On the problem of improving Poisson approximation. **89i:60040**

Chibisov, D. M. Equivalence of two forms of asymptotic expansion. **89g:60059**

Christiansen, Hanne Dalgas Uniformly distributed sums of Bernoulli variables. **89j:60032**

Cline, Daren B. H. Convolutions of distributions with exponential and subexponential tails. **89a:60049**

Dunau, Jean-Louis (*with* Sénateur, Henri) Une caracterisation du type de la loi de Cauchy-conforme sur $\mathbf{R}^n$. (English summary) [A characterization of the type of the conformal Cauchy law on $\mathbf{R}^n$] **89d:60032**

Goldie, Charles M. (*with* Resnick, Sidney) Subexponential distribution tails and point processes. **89m:60043**

Gurvits, L. N. (*with* Zakharin, A. M.) Randomization of random variables and their distributions. (Russian. English summary) **89d:60033**

Hassenforder, Claudie An extension of Knight's theorem on Cauchy distribution. **89d:60034**

Kandel, Abraham *see* **Schneider, Moti,** (Not in MR)

Komraz, L. A. (*with* Ukrainskiĭ, B. S.) Stationary density of the distribution of the coordinates of a discontinuous two-dimensional mapping with randomly varying parameter. (Russian) **89h:60034**

Krysicki, Włodzimierz Sur l'ensemble des paires de variables aléatoires indépendantes dont le quotient suit une distribution donnée. (Russian and Polish summaries) [On the set of pairs of independent random variables whose quotient follows a given distribution] **89h:60035**

Nevzorov, V. B. Moments of some random variables connected with records. (Russian. English summary) **89b:60042**

Peng, Ying A note on independence of random events and random variables. (Chinese. English summary) **89i:60041**

Resnick, Sidney *see* **Goldie, Charles M., 89m:60043**

Ronkin, A. L. (*with* Ulanovskiĭ, A. M.) On the determination of the sum of close distributions from the values of their convolutions. (Russian) **89k:60022**

Schneider, Moti (*with* Kandel, Abraham) Properties of the fuzzy expected value and the fuzzy expected interval. (Not in MR)

Schweizer, B. *see* **Alsina, C., 89i:60039**

Scott, W. F. The probability that a random matrix is singular. **89g:60060**

Sénateur, Henri *see* **Dunau, Jean-Louis, 89d:60032**

Shiu, Elias S. W. Convolution of uniform distributions and ruin probability. **89g:60061**

Shlesinger, Michael F. (*with* West, Bruce J.) $1/f$ versus $1/f^\alpha$ noise. (*see* **89j:00034**)

Stepanov, A. V. On logarithmic moments for interrecord times. (Russian) **89d:60035**

Szabłowski, Paweł J. Some remarks on two-dimensional elliptically contoured measures with second moments. **89b:60044**

— On the properties of marginal densities and conditional moments of elliptically contoured measures. **89b:60043**

Ukrainskiĭ, B. S. *see* **Komraz, L. A., 89h:60034**

Ulanovskiĭ, A. M. *see* **Ronkin, A. L., 89k:60022**

Vetrov, L. G. Bilinear expansions of two-dimensional probability densities in orthogonal polynomials. (Russian) **89g:60062**

West, Bruce J. *see* **Shlesinger, Michael F.,** (**89j:00034**)

Willekens, Eric The structure of the class of subexponential distributions. **89b:60045**

Wood, G. R. On computing the dispersion function. **89g:60063**

Zakharin, A. M. *see* **Gurvits, L. N., 89d:60033**

Zempléni, A. The description of the class I_0 in the multiplicative structure of distribution functions. **89b:60046**

Items with secondary classifications in 60E99

Adeyemi, H. O. *see* **Ojo, M. O., 89c:62036**

Alsina, C. The solution of the functional equation: $\tau(aF(j-b), aG(j-c)) = a\tau(F,G)(j-b-c)$. (Serbo-Croatian summary) **89m:39016**

An, Hong Zhi (*with* Dai, Zong Duo) Mean and variance of longest runs. (Chinese) (Not in MR)

Azlarov, T. A. (*with* Gurvich, T. L.) Sharpening of a theorem of Yu. V. Prokhorov on the asymptotic behavior of the binomial distribution. (Russian) **89b:60047**

Cherkasov, I. D. *see* **Yastrebo, B. S.; et al.,** (**89j:00036**)

Dai, Zong Duo *see* **An, Hong Zhi,** (Not in MR)

Diaconis, P. Application of the method of moments in probability and statistics. **89m:60006**

Emel′yanov, V. F. *see* **Yastrebo, B. S.; et al.,** (**89j:00036**)

Ferland, R. (*with* Giroux, Gaston) The p-q model Boltzmann equation: convergence of the solution. **89d:82069**

Giroux, Gaston *see* **Ferland, R., 89d:82069**

Gurvich, T. L. *see* **Azlarov, T. A., 89b:60047**

Henze, N. A probabilistic representation of the "skew-normal" distribution. **89k:62015**

Janković, Slobodanka On a functional equation occurring in the limit theorem for maxima with random indices. **89b:60094**

Kagan, A. M. Analytic refinement of the Heyde theorem on the linear forms of independent random variables. (Russian. English summary) **89h:62025**

Kanemitsu, Shigeru (*with* Nagasaka, Kenji; Rauzy, Gérard; Shiue, Jau Shyong) On Benford's law: the first digit problem. **89d:11059**

Kato, Yutaka Central limit theorem for Weyl automorphism. **89k:28008**

Kogan, Vladimir Iosef On monotonicity of distributions of certain functions of order statistics. **89k:62063**

Lander, Leslie *see* **Ramer, Arthur, 89c:03089**

Nagasaka, Kenji *see* **Kanemitsu, Shigeru; et al., 89d:11059**

Oancea, Elena (*with* Rădulescu, Marcel) Sur l'entropie d'une variable aléatoire continue. (English summary) [Entropy of a continuous random variable] **89i:94020**

Ojo, M. O. (*with* Adeyemi, H. O.) Error bounds for the normal and the t-approximation to the generalized logistic distribution. (French and Italian summaries) **89c:62036**

Rădulescu, Marcel *see* **Oancea, Elena, 89i:94020**

Ramer, Arthur (*with* Lander, Leslie) Classification of possibilistic uncertainty and information functions. **89c:03089**

Rauzy, Gérard *see* **Kanemitsu, Shigeru; et al., 89d:11059**

Shiue, Jau Shyong *see* **Kanemitsu, Shigeru; et al., 89d:11059**

Yastrebo, B. S. (*with* Cherkasov, I. D.; Emel′yanov, V. F.) Series of operators and modeling of random variables. (Russian) (*see* **89j:00036**)

60Fxx Limit theorems [see also 28Dxx, 60B12]

Items with secondary classifications in 60Fxx

(Borevich, Z. I.) *see* **Rings and modules. Limit theorems of probability theory, 89f:00015**

Chow, Yuan Shih (*with* Teicher, Henry) ★ Probability theory. **89e:60001**

(Petrov, Valentin Vladimirovich) *see* **Rings and modules. Limit theorems of probability theory, 89f:00015**

(Siegel, Gerhard) *see* **Limit theorems in probability theory and related fields, 89b:60006**

Teicher, Henry *see* **Chow, Yuan Shih, 89e:60001**

(Wolf, Werner) *see* **Limit theorems in probability theory and related fields, 89b:60006**

Items listed otherwise than by author

Limit theorems in probability theory and related fields ★ Limit theorems in probability theory and related fields. **89b:60006**

Rings and modules. Limit theorems of probability theory ★ Кольца и модули. Предельные теоремы теории вероятностей. Вып. 2. (Russian) [Rings and modules. Limit theorems of probability theory. No. 2] **89f:00015**

60F05 Central limit and other weak theorems

Abdalimov, B. The central limit theorem for U-statistics from weakly dependent variables. (Russian) **89m:60044**
Abramov, V. A. General limit theorems in an M-scheme. (Russian) **89a:60050**
Akhundov, I. S. Distribution of the maximum of normalized sums. (Russian. English summary) **89c:60021**
Aksomaitis, A. A nonuniform estimate for the rate of convergence in a transfer theorem for extreme values. (Russian. English and Lithuanian summaries) **89a:60051**
— The nonuniform rate of convergence in the max scheme limit theorem. (Russian. English and Lithuanian summaries) **89j:60033**
Amosova, N. N. A limit theorem for lattice distributions. (Russian) **89i:60042**
An, Hong Zhi (*with* Gao, Hong Ye) Two limit theorems on ARIMA models. **89g:60064**
Anderson, Kevin K. A note on cumulative shock models. **89k:60023**
Anisimov, V. V. Limit theorems for switching processes. (Russian) **89f:60020**
Antonyan, A. A. Convergence of square integrable semimartingales. (Russian) (Not in MR)
Arenbaev, N. K. A local theorem for a negative-binomial distribution. (Russian) (*see* **89a:00016**)
Azlarov, T. A. (*with* Gurvich, T. L.) Sharpening of a theorem of Yu. V. Prokhorov on the asymptotic behavior of the binomial distribution. (Russian) **89b:60047**
Baltrūnas, A. An estimate for the remainder term in the limit theorem of renewal theory. (Russian. English and Lithuanian summaries) **89m:60045**
Barbour, A. D. (*with* Holst, Lars) Some applications of the Stein-Chen method for proving Poisson convergence. **89m:60046**
Bartmańska, B. (*with* Szynal, D.) On nonuniform estimates of the rate of convergence in the central limit theorem for functions of the average of independent random variables. **89a:60052**
Bass, R. F. (*with* Pyke, R.) A central limit theorem for $D(A)$-valued processes. **89b:60048**
Basu, A. K. Uniform and nonuniform estimates in the CLT for Banach valued dependent random variables. **89k:60024**
Berger, Marc A. A Trotter product formula for random matrices. **89b:60049**
Bethmann, J. Limiting behaviour of sums of a random number of independent and identically distributed random variables. **89b:60050**
— The Lindeberg-Feller theorem for sums of a random number of independent random variables in a triangular array. **89j:60034**
Bhattacharya, Rabi N. (*with* Lee, Oesook) Ergodicity and central limit theorems for a class of Markov processes. **89i:60043**
Bingham, Michael S. Replacing the martingale assumption in a martingale central limit theorem. **89g:60065**
Birkel, Thomas On the convergence rate in the central limit theorem for associated processes. **89e:60039**
Blagoveshchenskiĭ, Yu. N. Solutions of systems of stochastic equations. **89i:60044**
Bloznelis, M. Rate of convergence to a stable law in the space $\mathbf{R}^k$. **89g:60066**
Bokuchava, I. V. (*with* Kvatadze, Z. A.; Shervashidze, T. L.) On limit theorems for random vectors controlled by a Markov chain. **89e:60040**
Borovskikh, Yu. V. *see* **Korolyuk, V. S., 89c:60026** *and* **89i:60051**
Bradley, Richard C. Corrections to: "The central limit question under ρ-mixing" [Rocky Mountain J. Math. **17** (1987), no. 1, 95–114; MR 88i:60038]. **89d:60036**
— A central limit theorem for stationary ρ-mixing sequences with infinite variance. **89a:60053**
— On some results on M. I. Gordin: a clarification of a misunderstanding. **89d:60037**
Broniatowski, Michel Convergence for the sample extremes via convolutions. **89a:60054**
Brosamler, Gunnar A. An almost everywhere central limit theorem. **89i:60045**
Brown, Bruce Maxwell (*with* Higgins, P. M.) Finite full transformation semigroups as collections of random functions. **89g:60067**
Brozius, Henk (*with* de Haan, L.) On limiting laws for the convex hull of a sample. **89h:60036**
Butzer, Paul L. (*with* Kirschfink, Heribert; Schulz, Dietmar) An extension of the Lindeberg-Trotter operator-theoretic approach to limit theorems for dependent random variables. II. Approximation theorems with O-rates, applications to martingale difference arrays. **89g:60068**
Canto e Castro, L. Uniform rates of convergence in extreme-value theory—normal and gamma models. **89c:60022**
Chen, Louis H. Y. The central limit theorem and Poincaré-type inequalities. **89b:60051**
Chibisova, E. D. A scheme for partial summation. (Russian) **89a:60055**
Christoph, G. A series criterion for the convergence rate to a stable law. **89m:60047**
Chrysaphinou, Ourania (*with* Papastavridis, S.) A limit theorem on the number of overlapping appearances of a pattern in a sequence of independent trials. **89g:60069**
— (*with* Papastavridis, S.) A limit theorem for the number of nonoverlapping occurrences of a pattern in a sequence of independent trials. **89g:60070**
Cioczek, Renata (*with* Szynal, D.) On the convergence rate in terms of the Trotter operator in the central limit theorem without moment conditions. (Russian summary) **89g:60071**
Cline, Daren B. H. Joint stable attraction of two sums of products. **89d:60038**
Csáki, Endre (*with* Földes, Antónia; Komlós, János) Limit theorems for Erdős-Rényi type problems. **89b:60052**
Csörgő, Miklós (*with* Horváth, Lajos) On the distributions of L_p norms of weighted uniform empirical and quantile processes. **89a:60056**
— (*with* Horváth, Lajos) Asymptotic representations of self-normalized sums. **89e:60041**
— (*with* Horváth, Lajos) Central limit theorems for L_p-norms of density estimators. **89i:60046**
Csörgő, Sándor (*with* Haeusler, Erich; Mason, David M.) The asymptotic distribution of trimmed sums. **89f:60021**
Dahlhaus, Rainer Empirical spectral processes and their applications to time series analysis. **89m:60048**
Das, Gokulananda (*with* Mishra, M. N.) Extension of the concept of weak law of large numbers. **89g:60072**
Daugavet, A. I. Estimates for the rate of convergence of numeric characteristics in limit theorems with a stable limit law. (Russian) **89b:60053**
Davis, Richard Alan (*with* Resnick, Sidney) Extremes of moving averages of random variables from the domain of attraction of the double exponential distribution. **89j:60035**
Davydov, Yu. A. Local limit theorems for functionals of random processes. (Russian) **89m:60049**
Deheuvels, Paul (*with* Révész, P.) Weak laws for the increments of Wiener processes, Brownian bridges, empirical processes and partial sums of i.i.d. r.v.'s. **89a:60057**
Deuschel, J.-D. Central limit theorem for an infinite lattice system of interacting diffusion processes. **89f:60022**
Dwass, M. A limit theorem for Bernoulli RVs and Feller's shoe problem. **89e:60042**
Dzhamirzaev, A. A. (*with* Mamurov, I. N.) A shift theorem for the central terms of an order statistics sequence. (Russian) **89h:60037**
Dzhneĭd, M. O. The limit distribution of the maximum of some dependent random variables. (Russian) **89a:60058**
Dziubdziela, Wiesław A compound Poisson limit theorem for stationary mixing sequences. **89j:60036**
van Es, A. J. (*with* Helmers, R.) Elementary symmetric polynomials of increasing order. **89k:60025**
Földes, Antónia *see* **Csáki, Endre; et al., 89b:60052**
Fukuyama, Katusi Some limit theorems of almost periodic function systems under the relative measure. **89m:60050**
Funaki, Tadahisa The central limit theorem for the spatially homogeneous Boltzmann equation. **89d:60039**
Gabbasov, F. G. A multidimensional limit theorem for the sums $\sum f(t2^k)$. (Russian) **89b:60054**
Galambos, Janos ★ The asymptotic theory of extreme order statistics. **89a:60059**
— (*with* Obretenov, A.) Restricted domains of attraction of $\exp(-e^{-x})$. **89c:60023**
Gamkrelidze, N. G. Application of a smoothness function in the proof of a local limit theorem. **89i:60047**
Gao, Hong Ye *see* **An, Hong Zhi, 89g:60064**
Giraitis, L. (*with* Surgailis, D.) Multivariate Appell polynomials and the central limit theorem. **89c:60024**
Girko, V. L. (*with* Litvin, I. N.) The stochastic Lyapunov problem for systems of stationary linear differential equations. **89k:60026**
Glendinning, Richard The rate of convergence in the central limit theorem for nonstationary dependent random vectors. **89g:60073**
Gomes, M. Ivette (*with* Pestana, Dinis D.) Nonstandard domains of attraction and rates of convergence. **89b:60055**
Grabauskas, V. Weak convergence of processes generated by stochastic algorithms. (Russian. English and Lithuanian summaries) **89g:60074**
Gramè, I. G. Normal approximation for semimartingales. (Russian) **89d:60040**
— *see also* **Mamatov, Kh. M.**, (Not in MR)
Gribkova, N. V. An estimate for the rate of convergence to the normal law of truncated linear combinations of order statistics. (Russian) **89b:60056**
Gudynas, Pranas P. An estimate for the rate of convergence in the central limit theorem for dependent two-dimensional random vectors. **89g:60075**
Gurvich, T. L. *see* **Azlarov, T. A., 89b:60047**
de Haan, L. (*with* Weissman, Ishay) The index of the outstanding observation among n independent ones. **89d:60041**
— *see also* **Brozius, Henk, 89h:60036**
Haeusler, Erich On the rate of convergence in the central limit theorem for martingales with discrete and continuous time. **89a:60060**
— (*with* Joos, Konrad) A nonuniform bound on the rate of convergence in the martingale central limit theorem. **89h:60038**
— *see also* **Csörgő, Sándor; et al., 89f:60021**
Hall, Peter On the effect of random norming on the rate of convergence in the central limit theorem. **89e:60043**
— Rate of convergence in bootstrap approximations. **89k:60027**
— (*with* Seneta, E.) Products of independent, normally attracted random variables. **89e:60044**
Harel, Michel (*with* Puri, Madan L.) Comportement limite de la U-statistique, de la V-statistique et d'une statistique de rang à un échantillon pour des processus absolument réguliers non stationnaires. (English summary) [Limiting behavior of U-statistics, V-statistics and one sample rank order statistics for nonstationary absolutely regular processes] **89d:60042**
Hebda-Grabowska, Halina Weak convergence of random sums of infima of independent random variables. **89c:60025**
Heinrich, Lothar On the central limit problem for sequences and fields of m-dependent random variables. **89i:60048**
— Rates of convergence in stable limit theorems for sums of exponentially ψ-mixing random variables with an application to metric theory of continued fractions. **89a:60061**
— Asymptotic expansions in the central limit theorem for a special class of m-dependent random fields. I. **89e:60045**
— Asymptotic Gaussianity of some estimators for reduced factorial moment measures and product densities of stationary Poisson cluster processes. **89f:60023**
Helmers, R. *see* **van Es, A. J., 89k:60025**
Higgins, P. M. *see* **Brown, Bruce Maxwell, 89g:60067**
Holst, Lars *see* **Barbour, A. D., 89m:60046**
Horváth, Lajos Limit laws for the averages of exponential random variables. **89m:60051**
— *see also* **Csörgő, Miklós, 89a:60056; 89e:60041** *and* **89i:60046**
Hüsler, Jürg (*with* Schüpbach, Michel) Limit results for maxima in nonstationary multivariate Gaussian sequences. **89e:60046**
Ignatov, Tsvetan G. (*with* Kaishev, Vladimir K.) Limit theorems for B-splines and linear transformations of order statistics. (Bulgarian summary) (*see* **89c:00038**)
Indira, N. K. (*with* Menon, V. V.) Some limit theorems in urn models with indistinguish-

able balls. **89j:60037**

Ishitani, H. A central limit theorem of mixed type for 1-dimensional transformations. **89e:60047**

Ismatullaev, Sh. A. Second-order asymptotics for decomposable statistics in a Pólya scheme. (Russian) **89g:60076**

Ivchenko, G. I. (*with* Lëvin, V. V.) Poisson convergence in a generalized distribution scheme. (Russian) **89m:60052**

Janković, Slobodanka On a limit theorem for random sequences. **89f:60024**

Janson, Svante Normal convergence by higher semi-invariants with applications to sums of dependent random variables and random graphs. **89a:60062**

— Some pairwise independent sequences for which the central limit theorem fails. **89e:60048**

Janssen, Arnold Uniform convergence of sums of order statistics to stable laws. **89j:60038**

Jensen, J. L. ★ Asymptotic expansions for sums of dependent variables. **89f:60025**

Jiang, Jyh-Ming Starlike functions and linear functions of a Dirichlet distributed vector. **89e:60049**

Joos, Konrad *see* **Haeusler, Erich, 89h:60038**

Kaishev, Vladimir K. *see* **Ignatov, Tsvetan G., (89c:00038)**

Kalashnikov, V. V. *see* **Vsekhsvyat·skiĭ, S. Yu., 89g:60088**

Karandikar, Rajeeva L. A general principle for limit theorems in finitely additive probability: the dependent case. **89b:60057**

Karoblis, Antanas Local limit theorems for sums of independent random vectors. (Russian) **89e:60050**

Kawamura, Kazutomo The condition for an approximation of Poisson distribution to Bernoulli sums in multivariate distribution. **89m:60053**

Khashimov, Sh. A. Limit theorems for distributions of generalized von Mises functionals. (Russian) **89k:60028**

Kholmatov, K. Kh. On a local limit theorem for densities. (Russian) (*see* **89g:60002**)

Khrimpach, M. V. *see* **Nagaev, A. V., 89b:60060**

Kirschfink, Heribert *see* **Butzer, Paul L.; et al., 89g:60068**

Kir′yanova, L. V. (*with* Rotar′, V. I.) Some remarks on the summation of dependent summands. (Russian) **89a:60063**

Klesov, O. I. Rate of convergence of the sums of a random number of random variables. (Russian) **89k:60029**

Köhnlein, Dieter ★ Asymptotisches Verhalten von Lösungen stochastischer linearer Differenzengleichungen im $\mathbf{R}^d$. (German) [Asymptotic behavior of solutions of stochastic linear difference equations in $\mathbf{R}^d$] **89i:60049**

Komlós, János *see* **Csáki, Endre; et al., 89b:60052**

Konakov, V. D. Local limit theorems on the convergence of Markov chains to diffusion processes. (Russian) **89g:60077**

Korolev, V. Yu. Estimates for the rate of convergence in local limit theorems for sums of a random number of independent random variables. (Russian) **89b:60058**

Korolyuk, V. S. The central limit theorem for additive functionals of Markov and semi-Markov processes. (Russian) **89i:60050**

— (*with* Borovskikh, Yu. V.) A multidimensional U-statistic empirical process. (Russian. English summary) **89i:60051**

— (*with* Borovskikh, Yu. V.) Asymptotic theory of U-statistics. **89c:60026**

Krajka, A. (*with* Rychlik, Z.) On the difference between the distribution functions of two random sums of independent random variables. **89a:60064**

— (*with* Rychlik, Z.) The order of approximation in the central limit theorem for random summation. **89c:60027**

Krivodub, Yu. G. *see* **Marushin, M. N., 89d:60047**

Kruglov, V. M. Convergence of the moments of random sums. **89h:60039**

Kubacki, K. S. (*with* Szynal, D.) On the rate of convergence in a random version of the central limit theorem. (Russian summary) **89k:60030**

— Weak convergence of random sums to infinitely divisible distributions. **89e:60051**

— (*with* Szynal, D.) The convergence of moments in a random limit theorem of H. Robbins type. **89g:60078**

Kulperger, R. J. Central limit theorem with three moment conditions: a truncation method example. **89g:60079**

Kushner, Harold J. (*with* Yin, Gang George) Asymptotic properties of distributed and communicating stochastic approximation algorithms. **89c:60028**

Kvatadze, Z. A. (*with* Shervashidze, T. L.) On limit theorems for conditionally independent random variables controlled by a finite Markov chain. **89d:60043**

— *see also* **Bokuchava, I. V.; et al., 89e:60040**

Landers, Dieter (*with* Rogge, Lothar) Sharp orders of convergence in the random central limit theorem. **89d:60044**

Larin, Yu. V. (*with* Mukhin, A. B.) Local limit theorems for arbitrary distributions. (Russian) **89a:60065**

— Local limit theorems with matrix normalization. (Russian) **89j:60039**

— Local limit theorems under matrix normalization. (Russian) **89i:60052**

— Local limit theorems for m-lattice random vectors. (Russian) **89m:60054**

Lee, Oesook *see* **Bhattacharya, Rabi N., 89i:60043**

Lëvin, V. V. *see* **Ivchenko, G. I., 89m:60052**

Lin, Zheng Yan Convergence of integrals of a stationary weakly correlated process. (Chinese. English summary) **89a:60066**

Litvin, I. N. *see* **Girko, V. L., 89k:60026**

Macht, W. (*with* Wolf, Werner) On the local central limit theorem. **89k:60031**

Maĭster, V. Estimate for the remainder term of the asymptotic expansion of the density of distribution of the sum of independent random variables. (Russian. English summary) **89b:60059**

Makhmudov, Kh. *see* **Sarymsakov, K., (89g:60002)**

Malczak, Jan Asymptotic properties of random processes defined by a family of transformations and ergodicity. **89d:60045**

Mamatov, Kh. M. (*with* Gramè, I. G.) Rate of convergence in a central limit theorem for stochastic integrals with respect to martingales. (Not in MR)

Mamurov, I. N. *see* **Dzhamirzaev, A. A., 89h:60037**

Martins, E. G. (*with* Pestana, Dinis D.) The extremal limit problem—extensions. **89g:60080**

Martynova, G. V. Strong convergence of the distributions of functionals of a sequence of processes that are linearly generated by independent random variables. **89d:60046**

Marushin, M. N. (*with* Krivodub, Yu. G.) Convergence to moments of the Poisson law for sums of a random number of independent random variables. (Russian. English summary) **89d:60047**

Masol, V. I. Limit distributions of some statistics of an integer sequence. (Russian) **89a:60067**

Mason, David M. *see* **Csörgő, Sándor; et al., 89f:60021**

Mémin, Jean Convergence in distribution. Convergence in variation (some examples of martingale approach). **89k:60032**

Menon, V. V. *see* **Indira, N. K., 89j:60037**

Mijnheer, Joop On the rate of convergence of the sum of the sample extremes. **89k:60033**

Mikhaĭlov, A. V. The central limit theorem for a p-adic shift. I. (Russian) **89i:60053**

Mirakhmedov, Sh. A. Estimates for the rate of convergence in a central limit theorem for randomized decomposable statistics in a multinomial scheme. (Russian) **89d:60048**

— Nonuniform estimates for the remainder term in a limit theorem in sampling without replacement from a finite population. (Russian) **89d:60049**

Mishra, M. N. *see* **Das, Gokulananda, 89g:60072**

Mukhanov, M. B. Central limit theorems for abelian sums. (Russian) **89e:60052**

— Rate of convergence in the central limit theorem for abelian sums. (Russian) **89f:60026**

Mukhin, A. B. Asymptotic estimates for local probabilities of sums of independent random variables. (Russian) **89h:60040**

— Asymptotic estimates for local probabilities of sums of independent multidimensional random variables. (Russian) **89i:60054**

— *see also* **Larin, Yu. V., 89a:60065**

Nabiev, I. A local limit theorem with estimates for the remainder term in the latency period problem. (Russian) (*see* **89g:60002**)

Nagaev, A. V. (*with* Khrimpach, M. V.) A local theorem for boundary functionals. (Russian) **89b:60060**

Nakhapetyan, B. S. (*with* Petrosyan, A. N.) Central limit theorem for martingales associated with sequences of increasing sets. (Russian. Armenian summary) **89d:60050**

— An approach to the proof of limit theorems for dependent random variables. (Russian) **89b:60061**

Nevzorov, V. B. The number of records in a sequence of nonidentically distributed variables. (Russian) **89f:60027**

— Times of first attainment of a level for the sequence S_n/n. (Russian. English summary) **89c:60029**

— Centering and normalizing constants for extrema and records. (Russian. English summary) **89i:60055**

Niculescu, Ştefan P. Rates of convergence in the multidimensional central limit theorem for random summation. **89b:60062**

Obretenov, A. *see* **Galambos, Janos, 89c:60023**

Paditz, Ludwig The mean central limit theorem for martingale differences. **89m:60055**

— A nonclassical error-estimate in the central limit theorem. **89i:60056**

— (*with* Šarachmetov, Šaturgun) A mean central limit theorem for multiplicative systems. **89k:60034**

Pancheva, E. Multidimensional max-self-decomposable laws under nonlinear normalization. **89h:60041**

— Max-stability. **89e:60053**

Papastavridis, S. *see* **Chrysaphinou, Ourania, 89g:60069** *and* **89g:60070**

Peligrad, Magda On the central limit theorem for ρ-mixing sequences of random variables. **89d:60051**

— The convergence of moments in the central limit theorem for ρ-mixing sequences of random variables. **89g:60081**

Pestana, Dinis D. *see* **Gomes, M. Ivette, 89b:60055** *and* **Martins, E. G., 89g:60080**

Petrosyan, A. N. *see* **Nakhapetyan, B. S., 89d:60050**

Pikersgil′, E. A. (*with* Piterbarg, V. I.) An estimate for the rate of convergence in the Poisson limit theorem for large excursions of a stationary Gaussian process. (Russian) **89e:60054**

— (*with* Piterbarg, V. I.) On the problem of an estimate for the rate of convergence in a Poisson limit theorem for large excursions of a stationary Gaussian process. (Russian) **89j:60040**

Piterbarg, V. I. *see* **Pikersgil′, E. A., 89e:60054** *and* **89j:60040**

Polak, Mieczysław (*with* Rychlik, Z.) Nonuniform central limit bounds and their applications. **89k:60035**

Popov, Vasil Atanasov On the inequalities of Berry-Esseen and V. M. Zolotarev. **89c:60030**

Puri, Madan L. (*with* Ralescu, Stefan S.) Limit theorems for random central order statistics. **89b:60063**

— *see also* **Harel, Michel, 89d:60042**

Pyke, R. *see* **Bass, R. F., 89b:60048**

Rakhimov, I. U. A limit theorem for random sums of dependent indicators and its applications in the theory of branching processes. (Russian) **89e:60055**

— (*with* Sirazhdinov, S. Kh.) Approximation of the distribution of a sum in a scheme for the summation of independent random variables. **89i:60057**

Ralescu, Stefan S. *see* **Puri, Madan L., 89b:60063**

Resnick, Sidney *see* **Davis, Richard Alan, 89j:60035**

Révész, P. *see* **Deheuvels, Paul, 89a:60057**

Richter, Wolf-Dieter Zur Restgliedabschätzung im mehrdimensionalen integralen zentralen Grenzwertsatz der Wahrscheinlichkeitstheorie. [On estimating the remainder term in the multidimensional integral central limit theorem of probability theory] **89m:60056**

Rogge, Lothar *see* **Landers, Dieter, 89d:60044**

Rosalsky, Andrew A generalization of the global limit theorems of R. P. Agnew. **89f:60028a**

— Addendum: "A generalization of the global limit theorems of R. P. Agnew". **89f:60028b**

Rosen, Jay Limit laws for the intersection local time of stable processes in $\mathbf{R}^2$. **89f:60029**

Rotar′, V. I. *see* **Kir′yanova, L. V., 89a:60063**

Rotaru, Elena Concerning some versions of the central limit theorem. (Romanian summary) **89e:60056**

Rozovskiĭ, L. V. A multidimensional generalization of a problem of A. N. Kolmogorov. (Russian) **89m:60057**

Rychlik, Z. *see* **Krajka, A., 89a:60064; 89c:60027** *and* **Polak, Mieczysław, 89k:60035**

Ryzhov, Yu. M. A new limit theorem for Gaussian random processes possessing the Baxter property. (Russian) **89i:60058**

— Limit theorems for random functions constructed from quadratic forms of Gaussian random variables. **89g:60082**

Salinetti, Gabriella Distribution functions and epi-convergence. **89k:60036**

Šarachmetov, Šaturgun *see* **Paditz, Ludwig, 89k:60034**

Sarymsakov, K. (*with* Makhmudov, Kh.) Some limit theorems for stationary processes. (Russian) (*see* **89g:60002**)

Sasvári, Zoltán (*with* Wolf, Werner) On the existence of the density of weighted sums. **89j:60041**

Schatte, Peter On the asymptotic normality of trigonometric and related sums of random variables. **89f:60030**

Schneller, W. A short proof of Motoo's combinatorial central limit theorem using Stein's method. **89g:60083**

Schulz, Dietmar *see* **Butzer, Paul L.; et al., 89g:60068**

Schüpbach, Michel *see* **Hüsler, Jürg, 89e:60046**

Semovskiĭ, S. V. Operator-normed sums of random vectors: convergence to the normal law along with convergence of moments. (Russian) **89k:60037**

Seneta, E. *see* **Hall, Peter, 89e:60044**

Senkienė, Elvyra Some properties of distributions of the minimal term of a sequence of independent normal random variables. (Russian. Lithuanian summary) **89g:60084**

Shergin, V. V. A central limit theorem for finitely dependent random variables. (Russian) **89j:60042**

Shervashidze, T. L. *see* **Kvatadze, Z. A., 89d:60043** *and* **Bokuchava, I. V.; et al., 89e:60040**

Shurenkov, V. M. *see* **Suprun, V. N., 89g:60087**

Sirazhdinov, S. Kh. *see* **Rakhimov, I. U., 89i:60057**

Smythe, R. T. Conditional inference for restricted randomization designs. **89g:60085**

Sugiman, Ikuo On a stochastic version of the Anscombe condition. **89g:60086**

Sunklodas, J. Approximation of the distributions of the sums of weakly dependent random variables by a normal distribution. (Russian. English and Lithuanian summaries) **89f:60031**

Suprun, V. N. (*with* Shurenkov, V. M.) Limit distributions of the position at the exit time from an interval of a semicontinuous process with negative infinite mean. **89g:60087**

Surgailis, D. *see* **Giraitis, L., 89c:60024**

Szeidl, László Limit distributions of random symmetric polynomials. **89m:60058**

Szynal, D. *see* **Bartmańska, B., 89a:60052**; **Cioczek, Renata, 89g:60071**; **Kubacki, K. S., 89g:60078** *and* **89k:60030**

Szyszkowski, I. A weak convergence theorem for functionals of sums of φ-mixing sequences. **89e:60057**

Takahata, Hiroshi An invariance principle for integral type functionals of weakly dependent random processes. **89d:60052**

Takano, Seiji Convergence of entropy in the central limit theorem. **89f:60032**

Todorovic, P. The key renewal theorem revisited. **89e:60058**

Volný, Dalibor Martingale decompositions of stationary processes. **89d:60053**

— Approximation of stationary processes and the central limit problem. **89d:60054**

— Counterexamples to the central limit problem for stationary dependent random variables. **89m:60059**

Vsekhsvyatskiĭ, S. Yu. (*with* Kalashnikov, V. V.) Estimates in the Rényi theorem in terms of renewal theory. **89g:60088**

Wang, Ding Cheng Complete convergence of sums of stationary sequences of φ-mixing random variables. (Chinese. English summary) **89a:60068**

Weissman, Ishay On the asymptotic joint distribution of an unbounded number of sample extremes. **89e:60059**

— *see also* **de Haan, L., 89d:60041**

White, Donald B. An application of a multivariate central limit theorem to sampling without replacement. **89b:60064**

Withers, C. S. Central limit theorems for dependent variables. II. **89b:60065**

Wolf, Werner *see* **Sasvári, Zoltán, 89j:60041** *and* **Macht, W., 89k:60031**

Yang, Yong Xin Limit laws for mixtures and their applications to extreme value theory. (Chinese. English summary) **89g:60089**

Yin, Gang George *see* **Kushner, Harold J., 89c:60028**

Yudin, M. D. A remark on the approximation of distributions of sums of dependent variables by infinitely divisible distributions. (Russian. English summary) **89a:60069**

Yurachkovskiĭ, A. P. Equivalent forms of the Lindeberg condition for martingale differences. (Russian) **89g:60090**

Yusvaliev, Kh. R. Asymptotic expansions for the distribution of sums of random variables with rapidly increasing moments. (Russian) **89e:60060**

Zaĭtsev, A. Yu. Letter to the editors: "Estimates for the Lévy-Prokhorov distance in the multidimensional central limit theorem for random vectors with finite exponential moments" [Teor. Veroyatnost. i Primenen. **31** (1986), no. 2, 246–265; MR 88a:60058]. (Russian) **89a:60070**

— Estimates for the closeness of successive convolutions of multidimensional symmetric distributions. **89i:60059**

Zayats, V. V. An estimate for the correlation function of a Gaussian random process. (Russian) **89e:60061**

Zhaurov, Yu. V. On the asymptotics of convolutions of complex-valued measures in Banach spaces. (Russian) **89a:60071**

Zinchenko, N. M. Asymptotics of sums of random variables from the domain of attraction of a stable law. (Russian) **89b:60066**

Zolotarev, V. M. Random symmetric polynomials. (Russian) **89c:60031**

— Real refinements of limit theorems in probability theory. (Russian) **89k:60038**

Zuev, N. M. The rate of convergence in the central limit theorem for uniformly strongly mixed random variables. (Russian) (Not in MR)

Zuparov, T. M. The rate of convergence in the central limit theorem for stationary processes satisfying the uniform strong mixing condition. (Russian) (Not in MR)

Items with secondary classifications in 60F05

Alsmeyer, Gerold Second-order approximations for certain stopped sums in extended renewal theory. **89d:60156**

Andersen, Niels Trolle (*with* Dobrić, V.) The central limit theorem for stochastic processes. II. **89h:60010**

— (*with* Giné, Evarist; Ossiander, Mina; Zinn, Joel) The central limit theorem and the law of iterated logarithm for empirical processes under local conditions. **89g:60009**

— (*with* Giné, Evarist; Zinn, Joel) The central limit theorem for empirical processes under local conditions: the case of Radon infinitely divisible limits without Gaussian component. **89d:60059**

Anisimov, V. V. (*with* Pushkin, S. G.) Limit theorems and estimates for closeness for summation schemes on Markov chains. (Russian) **89b:60157**

— ★ Случайные процессы с дискретной компонентой. (Russian) [Random processes with a discrete component] **89m:60003**

Arthur, W. Brian (*with* Ermol′ev, Yu. M.; Kaniovskiĭ, Yu. M.) Adaptive growth processes that can be modeled by urn schemes. (Russian. English summary) **89d:60011**

Asimov, A. A scheme for the arrangement of particles in cells. (Russian) (*see* **89g:60002**)

— *see also* **Formanov, Sh. K., 89d:60013**

Ballerini, Rocco (*with* Resnick, Sidney) Records in the presence of a linear trend. **89a:60242**

Baróti, G. First passage problems for Ehrenfest model. **89g:60026**

van den Berg, Michiel (*with* Lewis, John Trevor) Limit theorems for stochastic processes associated with a boson gas. **89m:60247**

Bhattacharya, Rabi N. (*with* Lee, Oesook) Asymptotics of a class of Markov processes which are not in general irreducible. **89m:60148**

Biaz, Khaleb Quelques propriétés de certaines marches aléatoires en milieu aléatoire. [Some properties of certain random walks in a random environment] **89g:60212**

Birkel, Thomas The invariance principle for associated processes. **89e:60074**

Borovkov, K. A. On the problem of improving Poisson approximation. **89i:60040**

Borovskikh, Yu. V. *see* **Korolyuk, V. S., 89h:60071**

Bougerol, Philippe Théorèmes limite pour les systèmes linéaires à coefficients markoviens. (English summary) [Limit theorems for linear systems with Markov coefficients] **89i:60122**

Brosamler, Gunnar A. Un théorème limite central presque sûr pour les mesures d'occupation du mouvement brownien sur une variété riemannienne compacte. (English summary) [An almost everywhere central limit theorem for the occupation measures of Brownian motion on a compact Riemannian manifold] **89k:58294**

Bulinskiĭ, A. V. Various mixing conditions and the asymptotic normality of random fields. **89i:60104**

Carlstein, E. Law of large numbers for the subseries values of a statistic from a stationary sequence. **89g:62054**

Chabanyuk, V. S. ★ Одна задача Скорохода и диффузионная аппроксимация систем массового обслуживания. (Russian) [A problem of Skorokhod and the diffusion approximation of queueing systems] **89d:60171**

Chaĭ, Z. S. *see* **Startsev, A. N., 89m:92046**

Cohen, Paula S. (*with* Regev, Amitai) Asymptotics of combinatorial sums and the central limit theorem. **89k:05012**

Crank, Keith N. (*with* Puri, Prem) A method of approximating Markov jump processes. **89k:60122**

Dabrowski, André Robert Joint characteristic functions and associated sequences. **89c:60020**

Darroch, J. N. (*with* Jiřina, Miloslav; Speed, T. P.) Sampling without replacement: approximation to the probability distribution. **89c:62023**

Derriennic, Y. ★ Entropie, théorèmes limite et marches aléatoires. (French) [Entropy, limit theorems and random walks] **89f:60076a**

— Entropie, théorèmes limite et marches aléatoires. [Entropy, limit theorems and random walks] **89f:60076b**

Diaconis, P. Application of the method of moments in probability and statistics. **89m:60006**

— *see also* **Smith, Laurel, 89m:60163**

Didkovskiĭ, I. R. (*with* Sīl′vestrov, D. S.; Motsa, A. I.) A characteristic and a limit theorem for processes of the attainment of a level. (Russian) **89g:60311**

Dobrić, V. *see* **Andersen, Niels Trolle, 89h:60010**

Does, R. J. M. M. (*with* Helmers, R.; Klaassen, C. A. J.) On the Edgeworth expansion for the sum of a function of uniform spacings. **89a:62047**

Eleĭko, Ya. I. Limit distributions of time averages for processes with Markovian interference of chance. (Russian) **89a:60203**

Eplett, W. J. R. A central limit theorem for cyclic rank processes. **89f:62011**

Ermol′ev, Yu. M. *see* **Arthur, W. Brian; et al., 89d:60011**

Formanov, Sh. K. (*with* Asimov, A.) A limit theorem for a decomposable statistic in a random allocation scheme. (Russian) **89d:60013**

Franchi, Jacques Produits semi-directs de diffusions réelles et lois asymptotiques. (English summary) [Skew-products of real diffusions and asymptotic laws] **89b:60185**

Gafurov, M. U. (*with* Sarymsakova, Kh. K.; Slastnikov, A. D.) Inequalities for series with probabilities of large deviations and their application. (Russian) **89g:60095**

Gijbels, I. (*with* Janssen, Paul; Veraverbeke, N.) Weak and strong representations for trimmed U-statistics. **89b:60074**

Giné, Evarist *see* **Andersen, Niels Trolle; et al., 89d:60059** *and* **89g:60009**

Girko, V. L. Elliptic law and elements of G-analysis. **89b:60075**

— (*with* Matveĭchuk, A. K.) A limit theorem for functionals of random walks. **89a:60162**

— Limiting normalized spectral functions of a pencil of selfadjoint random matrices. **89g:15027**

Gräff, Pitter Some asymptotic results in turbulent diffusion. **89j:76058**

Groeneboom, Piet Limit theorems for convex hulls. **89j:60024**

Haiman, George Étude des extrêmes d'une suite stationnaire m-dépendante avec une application relative aux accroissements du processus de Wiener. (English summary) [Study of the extrema of an m-dependent stationary sequence with an application involving the increments of the Wiener process] **89a:60104**

Harel, Michel Weak convergence of multidimensional rank statistics under φ-mixing conditions. **89m:60014**

Harris, Bernard (*with* Marden, Morris; Park, Chong Jin) The distribution of the number of empty cells in a generalized random allocation scheme. **89b:60027**

Heinrich, Lothar Asymptotic behaviour of an empirical nearest-neighbour distance function for stationary Poisson cluster processes. **89j:60066**

Helmers, R. *see* **Does, R. J. M. M.; et al., 89a:62047**

Höglund, Thomas A multidimensional renewal theorem. **89g:60264**
den Hollander, W. Th. F. Mixing properties for random walk in random scenery. **89i:60199**
Holst, Lars (*with* Kennedy, J. E.; Quine, M. P.) Rates of Poisson convergence for some coverage and urn problems using coupling. **89i:60021**
Hou, Bo Nonuniform estimates for the remainder term in a central limit theorem for error variance estimators in a linear model. (Chinese. English summary) **89a:62050**
Hsing, Tailen On the characterization of certain point processes. **89b:60129**
Huang, Hai (*with* Kushner, Harold J.) Weak convergence and approximations for partial differential equations with stochastic coefficients. **89a:60183**
Hudson, William N. (*with* Veeh, Jerry Alan; Weiner, Daniel Charles) Moments of distributions attracted to operator-stable laws. **89g:60041**
Hüsler, Jürg Maximal, nonuniform spacings and the coverage problem. **89g:60031**
Iosifescu, Marius Mixing properties for f-expansions. **89d:11061**
Ivchenko, G. I. (*with* Sevast′yanov, B. A.) The χ^2-process and its application in statistics. (Russian) **89m:62015**
Jakubowski, Adam A note on the invariance principle for stationary φ-mixing sequences: tightness via stopping times. **89m:60075**
Janssen, Paul *see* **Gijbels, I.; et al., 89b:60074**
Jiřina, Miloslav *see* **Darroch, J. N.; et al., 89c:62023**
Johnson, Dudley Paul A short proof of the central limit theorem for Markov chains. **89b:60171**
Juknevičienė, D. The central limit theorem in the space $C(S)$ and majorizing measures. (Russian. English and Lithuanian summaries) **89a:60025**
— *see also* **Paulauskas, Vygantas, 89m:60018**
Kaĭmanovich, V. A. Lyapunov exponents, symmetric spaces and a multiplicative ergodic theorem for semisimple Lie groups. (Russian. English summary) **89m:22006**
Kalina, Martin The central limit theorem on compact commutative groups. **89m:60025**
Kaniovskiĭ, Yu. M. *see* **Arthur, W. Brian; et al., 89d:60011**
Kato, Yutaka Central limit theorem for Weyl automorphism. **89k:28008**
Keener, Robert Asymptotic expansions in nonlinear renewal theory. **89g:60265**
Keller, Gerhard (*with* Kersting, G.; Rösler, Uwe) On the asymptotic behaviour of first passage times for discussions [diffusions]. **89d:60141**
Kennedy, J. E. *see* **Holst, Lars; et al., 89i:60021**
Kersting, G. *see* **Keller, Gerhard; et al., 89d:60141**
Khashimov, Sh. A. Limit distribution of a two-sample von Mises functional with variable kernel. **89e:62021**
Klaassen, C. A. J. *see* **Does, R. J. M. M.; et al., 89a:62047**
Korolyuk, V. S. (*with* Svishchuk, A. V.; Korolyuk, V. V.) The central limit theorem in a scheme of phase extension for semi-Markov random evolutions. (Russian) **89g:60270**
— (*with* Borovskikh, Yu. V.) ★ Мартингальная аппроксимация. (Russian) [Martingale approximation] **89h:60071**
Korolyuk, V. V. *see* **Korolyuk, V. S.; et al., 89g:60270**
Kováts, A. On bivariate geometric compounding. **89j:62027**
Kozachenko, Yu. V. *see* **Zelepugina, I. N., 89i:60083**
Kruglov, V. M. Weak convergence of step-processes to a homogeneous Poisson process with independent increments. (Russian) **89h:60051**
Kulkarni, V. G. Some limit theorems for cumulative processes with applications to sojourn times. **89e:60172**
Kushner, Harold J. *see* **Huang, Hai, 89a:60183**
Leadbetter, M. R. (*with* Rootzén, Holger) Extremal theory for stochastic processes. **89b:60098**
Le Breton, Alain (*with* Musiela, M.) Strong consistency of least squares estimates in linear regression models driven by semimartingales. **89a:62163**
Ledoux, M. (*with* Talagrand, Michel) Un critère sur les petites boules dans le théorème limite central. (English summary) [A criterion on small balls in the central limit theorem] **89e:60015**
Lee, Oesook *see* **Bhattacharya, Rabi N., 89m:60148**
Leonenko, N. N. Limit distributions of some functionals of homogeneous isotropic Gaussian fields with strong dependence. (Russian) **89e:60106**
— On the accuracy of the normal approximation of functionals of strongly correlated Gaussian random fields. **89e:60087**
Léon R., José Rafael (*with* Olivares, M. M.) Correction: "Two parameter Brownian bridge and linear rank statistics for independence" [Acta Cient. Venezolana **36** (1985), no. 5-6, 295–302; MR 88c:62073]. (Spanish. English summary) **89g:62070**
Lëtchikov, A. V. A limit theorem for a random walk in a random environment. **89m:60161**
Lewis, John Trevor *see* **van den Berg, Michiel, 89m:60247**
Lindgren, G. (*with* Rootzén, Holger) Extreme values: theory and technical applications. **89i:60075**
Maejima, Makoto Self-similar processes and limit theorems. (Japanese) **89j:60070**
Marden, Morris *see* **Harris, Bernard; et al., 89b:60027**
Maruyama, Gisiro Gaussian limit theorems for Wiener functionals. **89f:60035**
Masol, V. I. Local theorems for some statistics of an integer sequence. (Russian) **89k:62025**
Matsak, I. K. A remark on the central limit theorem in a Banach space. **89m:60017**
Matveĭchuk, A. K. *see* **Girko, V. L., 89a:60162**
Milbrodt, H. A note on Hájek's theory of rejective sampling. **89b:62027**
Mirakhmedov, Sh. A. An approximation of the distribution of multidimensional randomized divisible statistics by the normal distribution. (Multinomial scheme). (Russian) **89c:62042**
Mitoma, Itaru Generalized Ornstein-Uhlenbeck process having a characteristic operator with polynomial coefficients. **89c:60058**
Moore, Marc Spatial linear processes. **89g:60174**
Motsa, A. I. *see* **Didkovskiĭ, I. R.; et al., 89g:60311**
Mukherjea, Arunava Convergence in distribution of products of random matrices: a semigroup approach. **89b:60025**
Musiela, M. *see* **Le Breton, Alain, 89a:62163**
Nepesova, Dzh. K. Limit distribution of level attainment time by a random walk under deflection by a reflecting barrier. (Russian. English summary) **89e:60136**
Newton, Nigel J. Asymptotically optimal discrete approximations for stochastic differential equations. **89d:60105**
Olivares, M. M. *see* **Léon R., José Rafael, 89g:62070**
Ordóñez Cabrera, M. Limit theorems for randomly weighted sums of random elements in normed linear spaces. **89b:60022**
Ōshima, Yōichi On central limit theorem for continuous additive functional of zero energy. **89g:60238**
Ossiander, Mina *see* **Andersen, Niels Trolle; et al., 89g:60009**
Paditz, Ludwig (*with* Sharakhmetov, Sh.) Probabilities of moderate deviations for weighted sums. (Russian) **89b:60071**
Pap, G. (*with* Richter, Wolf-Dieter) Zum asymptotischen Verhalten der Verteilungen und der Dichten gewisser Funktionale Gauss'scher Zufallsvektoren. [On the asymptotic behavior of the distributions and the densities of certain functionals of Gaussian random vectors] **89g:60056**
Park, Chong Jin *see* **Harris, Bernard; et al., 89b:60027**
Paulauskas, Vygantas (*with* Juknevičienė, D.) The convergence rate in the central limit theorem in the space $D[0, 1]$. **89m:60018**
Pavlov, A. I. Local limit theorems for the number of components of random permutations and mappings. **89g:60029**
Philipp, Walter Invariance principles for independent and weakly dependent random variables. **89a:60093**
— Limit theorems for sums of partial quotients of continued fractions. **89e:60069**
Puri, Prem *see* **Crank, Keith N., 89k:60122**
Pushkin, S. G. *see* **Anisimov, V. V., 89b:60157**
Quine, M. P. *see* **Holst, Lars; et al., 89i:60021**
Rakhimov, I. U. A local theorem for Galton-Watson processes with immigration, in the case of a uniform limit distribution. (Russian) **89i:60167**
Regev, Amitai *see* **Cohen, Paula S., 89k:05012**
Resnick, Sidney *see* **Ballerini, Rocco, 89a:60242**
Richter, Wolf-Dieter *see* **Pap, G., 89g:60056**
Rootzén, Holger Maxima and exceedances of stationary Markov chains. **89e:60129**
— *see also* **Leadbetter, M. R., 89b:60098** *and* **Lindgren, G., 89i:60075**
Rösler, Uwe *see* **Keller, Gerhard; et al., 89d:60141**
Rozovskiĭ, L. V. An estimate for the probabilities of large deviations. (Russian) **89c:60033**
Ruciński, Andrzej When are small subgraphs of a random graph normally distributed? **89e:60023**
Rybasov, K. V. The asymptotic normality of a functional of a homogeneous and isotropic Gaussian random field. (Russian) **89e:60088**
Sarymsakova, Kh. K. *see* **Gafurov, M. U.; et al., 89g:60095**
Savchuk, M. N. Limit theorems in a scheme of group allocation of particles with random levels. (Russian) **89a:60034**
— Convergence of multidimensional random processes, connected with decomposable statistics in arrangement schemes, to Gaussian diffusion processes. (Russian) (*see* **89b:90004**)
Sazonov, Vyacheslav Vasil′evich (*with* Zalesskiĭ, B. A.) On the central limit theorem in Hilbert space. **89g:60016**
— (*with* Ul′yanov, V. V.) Estimation of an integral. **89m:60019**
— Normal approximation in finite-dimensional and Hilbert spaces. (Russian) **89m:60020**
— *see also* **Zalesskiĭ, B. A.; et al., 89k:60008**
Schatte, Peter On strong versions of the central limit theorem. **89i:60070**
Schneider, W. R. Generalized Lévy distributions as limit laws. **89g:60055**
Sevast′yanov, B. A. *see* **Ivchenko, G. I., 89m:62015**
Sharakhmetov, Sh. *see* **Paditz, Ludwig, 89b:60071**
Sil′vestrov, D. S. *see* **Didkovskiĭ, I. R.; et al., 89g:60311**
Slastnikov, A. D. *see* **Gafurov, M. U.; et al., 89g:60095**
Smith, Laurel (*with* Diaconis, P.) Honest Bernoulli excursions. **89m:60163**
Soardi, P. M. Random walks on a discrete semigroup and Chebyshev polynomials. **89h:60015**
Speed, T. P. *see* **Darroch, J. N.; et al., 89c:62023**
Stadje, W. Asymptotic normality in a two-dimensional random walk model for cell motility. **89h:92034**
Startsev, A. N. (*with* Chaĭ, Z. S.) Limit theorems for the size of an epidemic in a generalized probability model. (Russian) **89m:92046**
Svishchuk, A. V. *see* **Korolyuk, V. S.; et al., 89g:60270**
Swensen, Anders Rygh A note on a randomized occupancy problem. **89i:60024**
Szubarga, A. (*with* Szynal, D.) Conditioned limit theorems for functions of the average of i.i.d. random variables. **89c:60048**
Szynal, D. *see* **Szubarga, A., 89c:60048**
Szyszkowski, I. The invariance principle for functionals of sums of martingale differences. **89j:60051**
Takahata, Hiroshi (*with* Yoshihara, Ken-ichi) Central limit theorems for integrated square error of nonparametric density estimators based on absolutely regular random sequences. **89g:62065**
Talagrand, Michel *see* **Ledoux, M., 89e:60015**
Tanaka, Hiroshi[1] Limit distributions for one-dimensional diffusion processes in self-similar random environments. **89h:60133**
Teicher, Henry Deviations of sums of independent random variables. **89j:60046**
Topolski, K. Central limit theorem for some dependent random elements of $D[0, 1]$. **89g:60018**
Ul′yanov, V. V. *see* **Zalesskiĭ, B. A.; et al., 89k:60008** *and* **Sazonov, Vyacheslav Vasil′evich, 89m:60019**
Urbanik, K. Domains of attraction and moments. **89a:60014**
Veeh, Jerry Alan *see* **Hudson, William N.; et al., 89g:60041**
Velikiĭ, Yu. A. Conditions for the convergence of distributions of the hitting times for Markov chains. (Russian. English summary) **89m:60151**
Veraverbeke, N. *see* **Gijbels, I.; et al., 89b:60074**
Volný, Dalibor On the invariance principle and functional law of iterated logarithm for nonergodic processes. **89k:60047**
Watson, Ray On the size of a rumour. **89e:60141**
Weiner, Daniel Charles *see* **Hudson, William N.; et al., 89g:60041**
White, Halbert *see* **Wooldridge, Jeffrey M., 89k:62026**
Willekens, Eric On higher moments of the population size in a subcritical branching process. **89e:60170**

Wooldridge, Jeffrey M. (*with* White, Halbert) Some invariance principles and central limit theorems for dependent heterogeneous processes. **89k:62026**

Xu, Jun Hui Filtered processes and two central limit theorems for them. (Chinese. English summary) **89b:60130**

Yeh, Hsiao Chên A unified approach to limit theorems on randomized sequential occupancy problems. **89h:60020**

Yoshihara, Ken-ichi *see* **Takahata, Hiroshi, 89g:62065**

Yurachkovskiĭ, A. P. Convergence of inhomogeneous branching processes that are asymptotically critical in a scheme of arrays to processes of diffusion type. **89e:60171**

Zalesskiĭ, B. A. Accuracy of normal approximation in Banach spaces. **89h:60014**

— (*with* Sazonov, Vyacheslav Vasil′evich; Ul′yanov, V. V.) Normal approximation in a Hilbert space. I. **89k:60008**

— *see also* **Sazonov, Vyacheslav Vasil′evich, 89g:60016**

Zelepugina, I. N. (*with* Kozachenko, Yu. V.) Estimates for the accuracy of the modeling of random fields in the spaces L_p, $p > 1$. (Russian) **89i:60083**

Zinn, Joel *see* **Andersen, Niels Trolle; et al., 89d:60059** *and* **89g:60009**

Zolotarev, V. M. ★ Современная теория суммирования независимых случайных величин. (Russian) [Contemporary theory of the summation of independent random variables] **89a:60003**

— Limit distribution of Student's *t*-statistic for a nonnormal population. **89m:62017**

60F10 Large deviations

de Acosta, A. Large deviations for vector-valued functionals of a Markov chain: lower bounds. **89i:60060**

Aleškevičienė, Aldona Probabilities of large deviations in approximation by the Poisson law. **89g:60091**

Arkhangel′skiĭ, A. N. Lower bounds for the probabilities of large deviations in the multidimensional case. (Russian) **89b:60067**

Arratia, R. (*with* Morris, Pricilla; Waterman, Michael S.) Stochastic Scrabble: large deviations for sequences with scores. **89h:60042**

Baldi, Paolo An introduction to the theory of large deviations. (Italian summary) **89k:60039**

— Large deviations and stochastic homogenization. **89m:60060**

Baxter, John Robert (*with* Jain, Naresh C.) A comparison principle for large deviations. **89h:60043**

Bentkus, Vidmantas-Kastytis Jurgio Large deviations in Banach spaces. (Russian) **89f:60033**

Bolthausen, E. Laplace approximations for sums of independent random vectors. II. Degenerate maxima and manifolds of maxima. **89g:60092**

Bulinskiĭ, A. V. Le comportement du maximum de sommes de variables aléatoires multi-indexées. (English summary) [The behavior of the maximum of sums of random variables with multi-index] **89b:60068**

Chaganty, Narasinga Rao (*with* Sethuraman, Jayaram) Limit theorems in the area of large deviations for some dependent random variables. **89a:60072**

Chiyonobu, T. (*with* Kusuoka, Shigeo) The large deviation principle for hypermixing processes. **89i:60061**

Doney, R. A. A large deviation local limit theorem. **89m:60061**

Doss, Halim (*with* Dozzi, M.) Estimations de grandes déviations pour les processus de diffusion à paramètre multidimensionnel. [Estimates of large deviations for diffusion processes with a multidimensional parameter] **89g:60093**

Dozzi, M. *see* **Doss, Halim, 89g:60093**

Dupuis, Paul Large deviations analysis of some recursive algorithms with state dependent noise. **89i:60062**

Föllmer, Hans (*with* Orey, Steven) Large deviations for the empirical field of a Gibbs measure. **89i:60063**

Gafurov, M. U. (*with* Kholmuradov, M. K.) Convergence of series of probabilities of large deviations for sums of random variables with multidimensional indices. (Russian) **89g:60094**

— (*with* Khamdamov, I. M.) The role of extreme order statistics in the formation of a large deviation of sums of independent random variables. (Russian) **89b:60069**

— (*with* Sarymsakova, Kh. K.; Slastnikov, A. D.) Inequalities for series with probabilities of large deviations and their application. (Russian) **89g:60095**

Gong, Guang Lu (*with* Qian, Min Ping) On the large deviation functions of Markov chains. **89j:60043**

Imaĭkin, V. M. Exponential estimates for the probabilities of large deviations for the solutions of a nonlinear parabolic stochastic equation. **89e:60062**

— (*with* Komech, A. I.) Large deviations of solutions of nonlinear stochastic equations. (Russian. English summary) **89m:60062**

Ismatullaev, Sh. A. *see* **Sirazhdinov, S. Kh.; et al., 89j:60045**

Jain, Naresh C. *see* **Baxter, John Robert, 89h:60043**

James, Barry (*with* James, Kang Ling; Siegmund, David) Conditional boundary crossing probabilities, with applications to change-point problems. **89b:60070**

James, Kang Ling *see* **James, Barry; et al., 89b:60070**

Keller, Heinz-Dieter Large deviations of the empirical characteristic function. **89m:60063**

Khamdamov, I. M. Theorems on super-large deviations for sums of order statistics. (Russian) **89a:60073**

— *see also* **Gafurov, M. U., 89b:60069**

Kholmuradov, M. K. Probabilities of unimodal deviations for sums of independent random variables with multidimensional indices. (Russian) (*see* **89g:60002**)

— *see also* **Gafurov, M. U., 89g:60094**

Komech, A. I. *see* **Imaĭkin, V. M., 89m:60062**

Kusuoka, Shigeo *see* **Chiyonobu, T., 89i:60061**

Lawniczak, Anna T. Large deviations for Gaussian stochastic processes with sample paths in Orlicz spaces. **89i:60064**

Liao, Yu Lin The theory of large deviations and its applications. (Chinese. English summary) **89g:60096**

McCormick, William P. (*with* Reeves, Jaxk Halbert) Approximating the distribution of an extreme value statistic based on estimates from a generating function. **89e:60063**

Mikami, Toshio Some generalizations of Wentzell's lower estimates on large deviations. **89m:60064**

Mirakhmedov, Sh. A. Probabilities of large deviations for randomized divisible statistics in multiple multinomial schemes. (Russian) **89g:60097**

— *see also* **Sirazhdinov, S. Kh.; et al., 89j:60045**

Morris, Pricilla *see* **Arratia, R.; et al., 89h:60042**

Narita, Kiyomasa Large deviation principle for diffusion processes. **89h:60044**

Olla, Stefano Large deviations for almost Markovian processes. **89c:60032**

— Large deviations for Gibbs random fields. **89g:60098**

Orey, Steven (*with* Pelikan, Stephan) Large deviation principles for stationary processes. **89j:60044**

— *see also* **Föllmer, Hans, 89i:60063**

Paditz, Ludwig (*with* Sharakhmetov, Sh.) Probabilities of moderate deviations for weighted sums. (Russian) **89b:60071**

Pelikan, Stephan *see* **Orey, Steven, 89j:60044**

Qian, Min Ping *see* **Gong, Guang Lu, 89j:60043**

Reeves, Jaxk Halbert *see* **McCormick, William P., 89e:60063**

Rhee, WanSoo T. (*with* Talagrand, Michel) A sharp deviation inequality for the stochastic traveling salesman problem. **89m:60065**

Richter, Wolf-Dieter The Laplace integral and the probabilities of moderate deviations in $\mathbf{R}^k$. (Russian) **89g:60099**

Rozovskiĭ, L. V. An estimate for the probabilities of large deviations. (Russian) **89c:60033**

Sarymsakova, Kh. K. *see* **Gafurov, M. U.; et al., 89g:60095**

Saulis, L. On large deviations for the probability density of sums of independent random variables. **89a:60074**

— General lemmas on large deviations for a random vector with regular cumulant behavior. I. (Russian) **89m:60066a**

— General lemmas on large deviations for a random vector with regular cumulant behavior. II. (Russian) **89m:60066b**

— General lemmas on large deviations for a random vector with regular cumulant behavior. III. **89m:60066c**

Sethuraman, Jayaram *see* **Chaganty, Narasinga Rao, 89a:60072**

Sharakhmetov, Sh. *see* **Paditz, Ludwig, 89b:60071**

Siegmund, David Approximate tail probabilities for the maxima of some random fields. **89c:60034**

— *see also* **James, Barry; et al., 89b:60070**

Sirazhdinov, S. Kh. (*with* Mirakhmedov, Sh. A.; Ismatullaev, Sh. A.) Probabilities of large deviations for randomized decomposable statistics in a multinomial scheme. **89j:60045**

Slaby, M. On the upper bound for large deviations of sums of i.i.d. random vectors. **89m:60067**

Slastnikov, A. D. *see* **Gafurov, M. U.; et al., 89g:60095**

Sznitman, Alain-Sol Grandes déviations. [Large deviations] **89h:60045**

Takahashi, Yōichirō Long time asymptotics of the ratio of measures of small tubes and a large deviation result. **89g:60100**

Talagrand, Michel *see* **Rhee, WanSoo T., 89m:60065**

Teicher, Henry Deviations of sums of independent random variables. **89j:60046**

Varadhan, Srinivasa R. S. Large deviations and applications. **89m:60068**

Waterman, Michael S. *see* **Arratia, R.; et al., 89h:60042**

Items with secondary classifications in 60F10

Asmussen, Søren (*with* Thorisson, Hermann) Large deviation results for time-dependent queue length distributions. **89e:60182**

Bajorski, Piotr (*with* Ledwina, Teresa) Large deviations and Bahadur efficiency of some rank tests of independence. **89h:62078**

Baldi, Paolo (*with* Chaleyat-Maurel, M.) An extension of Ventsel′-Freidlin estimates. **89i:60121**

Baras, J. S. *see* **James, M. R., 89m:93082**

Basalykas, A. Probabilities of large deviations for polynomial Pitman estimators. (Russian. English and Lithuanian summaries) **89c:62061**

Bass, R. F. Probability estimates for multiparameter Brownian processes. **89b:60103**

Baxendale, Peter H. Moment stability and large deviations for linear stochastic differential equations. **89c:60068**

van den Berg, Michiel (*with* Lewis, John Trevor; Pulé, J. V.) Large deviations and the boson gas. **89m:60248**

— (*with* Lewis, John Trevor; Pulé, J. V.) The large deviation principle and some models of an interacting boson gas. **89m:82013**

Bramson, Maury (*with* Cox, J. Theodore; Griffeath, David) Occupation time large deviations of the voter model. **89c:60116**

Chaleyat-Maurel, M. *see* **Baldi, Paolo, 89i:60121**

Chiang, Tsu Shu (*with* Sheu, Shuenn Jyi) Large deviation of some infinite-dimensional Markov processes. **89a:60180**

Cox, J. Theodore *see* **Bramson, Maury; et al., 89c:60116**

Dawson, D. A. (*with* Gärtner, Jürgen) Large deviations from the McKean-Vlasov limit for weakly interacting diffusions. **89c:60092**

Day, Martin V. Boundary local time and small parameter exit problems with characteristic boundaries. **89m:60185**

Deheuvels, Paul (*with* Erdős, Paul; Grill, K.; Révész, P.) Many heads in a short block. **89b:60073**

Durrett, Rick (*with* Schonmann, R. H.) Large deviations for the contact process and two-dimensional percolation. **89i:60195**

Eisele, Th. (*with* Ellis, Richard S.) Multiple phase transitions in the generalized Curie-Weiss model. **89k:82030**

Ellis, Richard S. *see* **Eisele, Th., 89k:82030**

Erdős, Paul *see* **Deheuvels, Paul; et al., 89b:60073**

van Es, A. J. (*with* Helmers, R.) Elementary symmetric polynomials of increasing order. **89k:60025**

Fleming, W. H. (*with* Sheu, Shuenn Jyi; Soner, H. M.) A remark on the large deviations of an ergodic Markov process. **89k:60099**

Gafurov, M. U. (*with* Slastnikov, A. D.) Some problems on the exit of a random walk from a curvilinear boundary, and large deviations. (Russian) **89a:60161**

Gärtner, Jürgen *see* **Dawson, D. A., 89c:60092**

Goodman, Victor Characteristics of normal samples. **89h:60011**

Griffeath, David *see* **Bramson, Maury; et al., 89c:60116**

Grill, K. *see* **Deheuvels, Paul; et al., 89b:60073**

Haiman, George Étude des extrêmes d'une suite stationnaire m-dépendante avec une application relative aux accroissements du processus de Wiener. (English summary) [Study of the extrema of an m-dependent stationary sequence with an application involving the increments of the Wiener process] **89a:60104**

Helmers, R. *see* **van Es, A. J., 89k:60025**

Jakimavičius, D. *see* **Statulevičius, Vytautas, 89g:60130** *and* **89k:60021**

James, M. R. (*with* Baras, J. S.) Nonlinear filtering and large deviations: a PDE-control theoretic approach. **89m:93082**

Janžura, M. Large deviations theorem for Gibbs random fields. **89j:60068**

Jurečková, Jana (*with* Kallenberg, W. C. M.; Veraverbeke, N.) Moderate and Cramér-type large deviation theorems for M-estimators. **89b:62047**

Kallenberg, W. C. M. *see* **Jurečková, Jana; et al., 89b:62047**

Kourouklis, Stavros Hodges-Lehmann efficacies of certain tests in multivariate analysis and regression analysis. (French summary) **89m:62022**

Lebowitz, Joel L. (*with* Schonmann, R. H.) Pseudo-free energies and large deviations for non-Gibbsian FKG measures. **89g:60306**

Ledwina, Teresa An expansion of the index of large deviations for linear rank statistics. **89b:62092**

— *see also* **Bajorski, Piotr, 89h:62078**

Léonard, C. Large deviations and law of large numbers for a mean field type interacting particle system. **89h:60169**

Lewis, John Trevor *see* **van den Berg, Michiel; et al., 89m:60248** *and* **89m:82013**

Mogul'skiĭ, A. A. Large deviations for the maximum likelihood estimators. **89f:62015**

Montgomery, Hugh L. (*with* Odlyzko, A. M.) Large deviations of sums of independent random variables. **89m:11075**

Móri, Tamás F. Maximum waiting time when the size of the alphabet increases. **89a:60033**

Narita, Kiyomasa Problems for stationary probability distributions of linear and nonlinear stochastic equations. (Japanese summary) **89e:60114**

Ney, Peter (*with* Nummelin, Esa) Markov additive processes: large deviations for the continuous time case. **89b:60205**

Nummelin, Esa *see* **Ney, Peter, 89b:60205**

Odlyzko, A. M. *see* **Montgomery, Hugh L., 89m:11075**

Pulé, J. V. *see* **van den Berg, Michiel; et al., 89m:60248** *and* **89m:82013**

Révész, P. *see* **Deheuvels, Paul; et al., 89b:60073**

Rouault, Alain Espérances et majorations pour un processus de branchement spatial markovien. (English summary) [Expectations and upper bounds for a spatial Markov branching process] **89d:60152**

Samorodnitsky, Gennady Extrema of skewed stable processes. **89i:60032**

Schonmann, R. H. *see* **Lebowitz, Joel L., 89g:60306** *and* **Durrett, Rick, 89i:60195**

Schroeder, Carolyn Green's functions for the Schrödinger operator with periodic potential. **89g:35033**

Sheu, Shuenn Jyi *see* **Chiang, Tsu Shu, 89a:60180** *and* **Fleming, W. H.; et al., 89k:60099**

Slastnikov, A. D. *see* **Gafurov, M. U., 89a:60161**

Soner, H. M. *see* **Fleming, W. H.; et al., 89k:60099**

Statulevičius, Vytautas (*with* Jakimavičius, D.) Estimates for the cumulants and centered moments of random processes with intermixing. I. **89g:60130**

— (*with* Jakimavičius, D.) Estimates for cumulants and centered moments of mixing random processes. II. **89k:60021**

Takahashi, Yōichirō Two aspects of large deviation theory for large time. **89f:28046**

Thorisson, Hermann *see* **Asmussen, Søren, 89e:60182**

Veraverbeke, N. *see* **Jurečková, Jana; et al., 89b:62047**

Watkins, Joseph C. Functional central limit theorems and their associated large deviation principles for products of random matrices. **89b:60091**

60F15 Strong theorems

Adler, André (*with* Rosalsky, Andrew) On the strong law of large numbers for normed weighted sums of i.i.d. random variables. **89a:60075**

— On the law of the iterated logarithm for nonidentically distributed random variables. **89e:60064**

Arthur, W. Brian (*with* Ermol'ev, Yu. M.; Kaniovskiĭ, Yu. M.) Strong laws for a class of path-dependent stochastic processes with applications. **89a:60076**

Bai, Zhi Dong A theorem of Feller revisited. **89m:60069**

— *see also* **Yin, Yong Quan; et al., 89g:60117**

Balibrea Gallego, Francisco (*with* Iniesta Moreno, Miguela) Toeplitz summability of independent random variables. (Spanish. English summary) **89g:60101**

Bingham, N. H. (*with* Goldie, Charles M.) Riesz means and self-neglecting functions. **89i:60065**

Borovskikh, Yu. V. The law of large numbers for UH-statistics. (Russian. English summary) **89j:60047**

Buldygin, V. V. (*with* Solntsev, S. A.) Strong laws of large numbers and the continuity of Gaussian processes. (Russian) **89f:60034**

Chen, Jun Ya *see* **Zhu, Cheng Xi; et al., 89i:60072**

Cheng, Ping *see* **Zhu, Li Xing, 89m:60074**

Choi, Bong Dae (*with* Sung, Soo Hak) On convergence of weighted sum for pairwise independent identically distributed random variables. **89g:60102**

Csáki, Endre (*with* Grill, K.) On the large values of the Wiener process. **89d:60055**

Csörgő, Miklós (*with* Horváth, Lajos) Rates of convergence for random walk summation. **89b:60072**

Csörgő, Sándor (*with* Horváth, Lajos) On the passage of a random walk from generalized balls. **89a:60077**

Cuesta, Juan Antonio (*with* Matrán, Carlos) Strong convergence of weighted sums of random elements through the equivalence of sequences of distributions. **89g:60103**

Deheuvels, Paul (*with* Erdős, Paul; Grill, K.; Révész, P.) Many heads in a short block. **89b:60073**

— (*with* Mason, David M.) The asymptotic behavior of sums of exponential extreme values. (French summary) **89k:60040**

— (*with* Einmahl, John H. J.; Mason, David M.; Ruymgaart, Frits H.) The almost sure behavior of maximal and minimal multivariate k_n-spacings. **89a:60078**

— (*with* Steinebach, Josef) Limit laws for the modulus of continuity of the partial sum process and for the Shepp statistic. **89i:60066**

Deng, Dian Liang The law of iterated logarithm of weighted sums of Banach space valued random variables. **89j:60048**

Déniel, Y. (*with* Derriennic, Y.) Sur la convergence presque sure, au sens de Cesàro d'ordre $\alpha, 0 < \alpha < 1$, de variables aléatoires indepéndantes et identiquement distribuées. (English summary) [a.s. convergence, of order $\alpha, 0 < \alpha < 1$, in the sense of Cesàro, of i.i.d. random variables] **89m:60070**

Derriennic, Y. *see* **Déniel, Y., 89m:60070**

Divanji, G. *see* **Vasudeva, R., 89g:60116**

Dobrić, V. The law of large numbers in locally convex spaces. **89e:60065**

Egorov, V. A. A generalization of the law of the iterated logarithm. (Russian) **89c:60035**

— The strong law of large numbers for the middle part of a sample. (Russian. English summary) **89g:60104**

Einmahl, John H. J. (*with* Mason, David M.) Laws of the iterated logarithm in the tails for weighted uniform empirical processes. **89c:60036**

— *see also* **Deheuvels, Paul; et al., 89a:60078**

Erdős, Paul *see* **Deheuvels, Paul; et al., 89b:60073**

Ermol'ev, Yu. M. *see* **Arthur, W. Brian; et al., 89a:60076**

Fisher, Evan An upper class law of the iterated logarithm for supermartingales. **89a:60079**

Fu, Shun Liang A necessary and sufficient condition for the validity of the strong law of large numbers. (Chinese) **89c:60037**

Gani, J. M. *see* **Todorovic, P., 89c:60039**

Gaposhkin, V. F. The law of large numbers for linear autoregression processes. **89g:60106**

— On the summation of sequences of independent random variables. **89g:60105**

Gijbels, I. (*with* Janssen, Paul; Veraverbeke, N.) Weak and strong representations for trimmed U-statistics. **89b:60074**

Girko, V. L. Elliptic law and elements of G-analysis. **89b:60075**

Goldie, Charles M. *see* **Bingham, N. H., 89i:60065**

Goodman, Victor (*with* Kuelbs, J.) Rates of convergence for increments of Brownian motion. **89a:60080**

Griffin, Philip S. Nonclassical law of the iterated logarithm behaviour for trimmed sums. **89e:60066**

— The influence of extremes on the law of the iterated logarithm. **89i:60067**

Grill, K. *see* **Deheuvels, Paul; et al., 89b:60073** *and* **Csáki, Endre, 89d:60055**

He, Zhong Luo The strong law of large numbers for weighted sums of random variables. (Chinese. English summary) **89i:60068**

Helmers, R. (*with* Janssen, Paul; Serfling, R.) Glivenko-Cantelli properties of some generalized empirical DF's and strong convergence of generalized L-statistics. **89h:60046**

Horváth, Lajos *see* **Csörgő, Sándor, 89a:60077** *and* **Csörgő, Miklós, 89b:60072**

Iniesta Moreno, Miguela *see* **Balibrea Gallego, Francisco, 89g:60101**

Janssen, Paul *see* **Gijbels, I.; et al., 89b:60074** *and* **Helmers, R.; et al., 89h:60046**

Kaniovskiĭ, Yu. M. Convergence of one-dimensional stochastic processes of optimization and estimation in multiextremal problems. (Russian) **89d:60056**

— *see also* **Arthur, W. Brian; et al., 89a:60076**

Karlin, Samuel (*with* Ost, Friedemann) Maximal length of common words among random letter sequences. **89h:60047**

Kazanchyan, T. P. The law of the iterated algorithm in Chung's form for m-dependent random variables. (Russian. Armenian summary) (Not in MR)

Khamdamov, I. M. On a generalization of Feller's theorem on the law of the iterated logarithm. (Russian) **89a:60081**

Klesov, O. I. A limit theorem for multiple sums of independent identically distributed random variables. (Russian) **89g:60107**

Kramosil, Ivan (*with* Šindelář, Jan) A note on the law of iterated logarithm from the viewpoint of Kolmogorov program complexity. (Russian summary) **89b:60076**

Krengel, Ulrich (*with* Pyke, R.) Uniform pointwise ergodic theorems for classes of averaging sets and multiparameter subadditive processes. **89h:60048**

Krishnaiah, P. R. *see* **Yin, Yong Quan; et al., 89g:60117**

Kuelbs, J. *see* **Goodman, Victor, 89a:60080**

Landers, Dieter (*with* Rogge, Lothar) Laws of large numbers for pairwise independent uniformly integrable random variables. **89d:60057**

Lapinskas, R. A law of the iterated logarithm for m-dependent random variables. (Russian. English and Lithuanian summaries) **89b:60077**

Lea, Cheun-Der (*with* Puri, Madan L.) Asymptotic properties of perturbed empirical distribution functions evaluated at a random point. **89g:60108**

Le Breton, Alain (*with* Musiela, M.) Laws of large numbers for semimartingales with applications to stochastic regression. **89m:60071**

Lin, Zheng Yan On Csörgő-Révész's increments of sums of non-i.i.d. random variables. **89i:60069**

— On increments of sums of independent nonidentically distributed random variables. **89m:60072**

— *see also* **Lu, Chuan Rong, 89e:60067**

Lu, Chuan Rong (*with* Lin, Zheng Yan) Strong approximations for partial sums of independent and dependent random variables. (Chinese. English summary) **89e:60067**

Mason, David M. *see* **Deheuvels, Paul; et al., 89a:60078; Einmahl, John H. J., 89c:60036** *and* **Deheuvels, Paul, 89k:60040**

Matrán, Carlos *see* **Cuesta, Juan Antonio, 89g:60103**

McConnell, Terry R. Two-parameter strong laws and maximal inequalities for U-statistics. **89b:60078**

Mikosch, Thomas Some stability results for random multilinear forms. **89g:60109**

— Iterated logarithm results for rapidly growing random walk. **89b:60079**

— On the law of the iterated logarithm for quadratic forms in independent Gaussian variables. **89d:60058**

Mori, Toshio (*with* Oodaira, Hiroshi) The functional iterated logarithm law for stochastic processes represented by multiple Wiener integrals. **89a:60082**

Móricz, F. Strong limit theorems for blockwise m-dependent and blockwise quasi-orthogonal sequences of random variables. **89c:60038**

Musiela, M. *see* **Le Breton, Alain, 89m:60071**

Nayak, S. S. Almost sure limit points of maxima of samples from *s* independent populations. **89h:60049**

— Almost sure limit points of sample extremes of an i.i.d. sequence. **89e:60068**

Oodaira, Hiroshi *see* **Mori, Toshio, 89a:60082**

Ost, Friedemann *see* **Karlin, Samuel, 89h:60047**

Patterson, Ronald Frank Strong convergence for *U*-statistics in arrays of row-wise exchangeable random variables. **89k:60041**

Philipp, Walter Limit theorems for sums of partial quotients of continued fractions. **89e:60069**

Plachky, D. Complete convergence of the sample mean for exchangeable random variables. **89g:60110**

Prakasa Rao, B. L. S. Law of iterated logarithm for fluctuation of posterior distributions for a class of diffusion processes and a sequential test of power one. **89g:60111**

Puri, Madan L. *see* **Lea, Cheun-Der, 89g:60108**

Puri, Prem On almost sure convergence of an erosion process due to Todorovic and Gani. **89c:60040**

Pyke, R. *see* **Krengel, Ulrich, 89h:60048**

Révész, P. (*with* Willekens, Eric) On the maximal distance between two renewal epochs. **89b:60080**

— *see also* **Deheuvels, Paul; et al., 89b:60073**

Rogge, Lothar *see* **Landers, Dieter, 89d:60057**

Rosalsky, Andrew Strong stability of normed weighted sums of pairwise i.i.d. random variables. **89g:60112**

— A strong law for a set-indexed partial sum process with applications to exchangeable and stationary sequences. **89g:60113**

— *see also* **Adler, André, 89a:60075**

Russo, Ralph P. On the last exit time and the number of exits of partial sums over a moving boundary. **89e:60070**

Ruymgaart, Frits H. *see* **Deheuvels, Paul; et al., 89a:60078**

Schatte, Peter On the almost sure convergence of floating-point mantissas and Benford's law. **89g:60114**

— On strong versions of the central limit theorem. **89i:60070**

— On a law of the iterated logarithm for sums mod 1 with application to Benford's law. **89b:60081**

— On the value distribution of sums of random variables. **89m:60073**

Serfling, R. *see* **Helmers, R.; et al., 89h:60046**

Šindelář, Jan *see* **Kramosil, Ivan, 89b:60076**

Solntsev, S. A. *see* **Buldygin, V. V., 89f:60034**

Steele, J. Michael Growth rates of Euclidean minimal spanning trees with power weighted edges. **89j:60049**

Steinebach, Josef Almost sure convergence of delayed renewal processes. **89a:60083**

— On the optimality of strong approximation rates for compound renewal processes. **89a:60084**

— *see also* **Deheuvels, Paul, 89i:60066**

Sung, Soo Hak *see* **Choi, Bong Dae, 89g:60102**

Thrum, R. Uniform almost sure convergence of weighted sums and applications in regression models. **89h:60050**

Todorovic, P. (*with* Gani, J. M.) Modeling the effect of erosion on crop production. **89c:60039**

Torrång, Ingrid Law of the iterated logarithm—cluster points of deterministic and random subsequences. **89e:60071**

Vasudeva, R. Number of boundary crossings related to the strong law of large numbers and the law of the iterated logarithm. **89g:60115**

— (*with* Divanji, G.) Law of the iterated logarithm for the increments of stable subordinators. **89g:60116**

Veraverbeke, N. *see* **Gijbels, I.; et al., 89b:60074**

Vovk, V. G. The law of the iterated logarithm for sequences that are random in the sense of Kolmogorov or chaotic. (Russian) **89e:60072**

— The Kolmogorov-Stout law of the iterated logarithm. **89k:60042**

Weber, Michel Jean Georges La loi du logarithme itéré sur toute sous-suite; caractérisations. (English summary) [The law of the iterated logarithm on subsequences; characterizations] **89a:60085**

Wei, Wen Yuan *see* **Zhu, Cheng Xi; et al., 89i:60072**

Willekens, Eric *see* **Révész, P., 89b:60080**

Wittmann, Rainer A limit theorem for double arrays. **89c:60041**

Wu, Zong Qi The Borel-Cantelli lemma for sequences of dependent events and its consequences. (Chinese. English summary) **89b:60082**

Yin, Yong Quan (*with* Bai, Zhi Dong; Krishnaiah, P. R.) On the limit of the largest eigenvalue of the large-dimensional sample covariance matrix. **89g:60117**

Yokoyama, Ryôzô Some results on the strong laws of large numbers under moment restrictions. (Japanese summary) **89k:60043**

Yukich, J. E. Convergence rates for function classes with applications to the empirical characteristic function. **89i:60071**

Zhu, Cheng Xi (*with* Chen, Jun Ya; Wei, Wen Yuan) The strong law of large numbers for functions of nonhomogeneous Markov chains. (Chinese) **89i:60072**

Zhu, Li Xing (*with* Cheng, Ping) The convergence rates of sums of weighted random variables with applications to regression models. **89m:60074**

Zhulenev, S. V. The law of the iterated logarithm and its indicators. (Russian) **89b:60083**

Zinchenko, N. M. Asymptotics of the increments of stable stochastic processes with jumps of the same sign. (Russian) **89c:60042**

— Asymptotics of stable random fields. (Russian) **89e:60073**

Items with secondary classifications in 60F15

Algoet, Paul H. (*with* Cover, Thomas M.) A sandwich proof of the Shannon-McMillan-Breiman theorem. **89b:94011**

Alonso, Alberto A counterexample on the continuity of conditional expectations. **89b:60118**

Alt, Jean-Christian La loi des grands nombres de Prokhorov dans les espaces de type *p*. (English summary) [Prokhorov's law of large numbers in type-*p* spaces] **89f:60007**

Andersen, Niels Trolle (*with* Giné, Evarist; Ossiander, Mina; Zinn, Joel) The central limit theorem and the law of iterated logarithm for empirical processes under local conditions. **89g:60009**

Arratia, R. (*with* Morris, Pricilla; Waterman, Michael S.) Stochastic Scrabble: large deviations for sequences with scores. **89h:60042**

Arthur, W. Brian (*with* Ermol′ev, Yu. M.; Kaniovskiĭ, Yu. M.) ★ Предельные теоремы для долей шаров в обобщенной схеме урны с шарами *N* цветов, добавляемыми порциями случайного объема. (Russian) [Limit theorems for fractions of balls in a generalized urn scheme with balls of *N* colors that can be supplemented with portions of random size] **89d:60060**

— (*with* Ermol′ev, Yu. M.; Kaniovskiĭ, Yu. M.) Adaptive growth processes that can be modeled by urn schemes. (Russian. English summary) **89d:60011**

Ballerini, Rocco (*with* Resnick, Sidney) Records in the presence of a linear trend. **89a:60242**

— (*with* Resnick, Sidney) Embedding sequences of successive maxima in extremal processes, with applications. **89a:60241**

Bañuelos, Rodrigo (*with* Klemes, Ivo; Moore, Charles N.) An analogue for harmonic functions of Kolmogorov's law of the iterated logarithm. **89k:42019**

Bougerol, Philippe Théorèmes limite pour les systèmes linéaires à coefficients markoviens. (English summary) [Limit theorems for linear systems with Markov coefficients] **89i:60122**

Bouton, Catherine Approximation gaussienne d'algorithmes stochastiques à dynamique markovienne. (English summary) [Gauss approximation of stochastic algorithms with Markov dynamics] **89g:60223**

Cameron, Peter J. On the structure of a random sum-free set. **89c:11018**

Chen, Zhao Guo Consistent estimates for hidden frequencies in a linear process. **89d:62100**

Choi, Bong Dae (*with* Sung, Soo Hak) On Chung's strong law of large numbers in general Banach spaces. **89b:60018**

Christoph, G. Strong approximations for partial sums of random variables attracted to a stable law. **89c:60043**

Cover, Thomas M. *see* **Algoet, Paul H., 89b:94011**

Csáki, Endre (*with* Földes, Antónia; Révész, P.) On the maximum of a Wiener process and its location. **89a:60186**

Csörgő, Miklós (*with* Horváth, Lajos) A note on strong approximations of multivariate empirical processes. **89d:60061**

Cuesta, Juan Antonio (*with* Matrán, Carlos) The strong law of large numbers for *k*-means and best possible nets of Banach valued random variables. **89g:60011**

Das, Gokulananda (*with* Mishra, M. N.) Extension of the concept of weak law of large numbers. **89g:60072**

Deheuvels, Paul Strong approximations of *k*th records and *k*th record times by Wiener processes. **89b:60086**

Dehling, Herold Almost sure approximations for *U*-statistics. **89a:60087**

Deng, Dian Liang The law of the iterated logarithm for tail sums of Banach-space-valued random variables. (Chinese. English summary) **89i:60015**

Denis′evskiĭ, N. A. The strong law of large numbers for a linear process in a Banach space. (Russian) **89g:60012**

Derriennic, Y. (*with* Hachem, Bachar) Sur la convergence en moyenne des suites presque sous-additives. [On the convergence in the mean of almost subadditive sequences] **89h:28024**

Egorov, V. A. The law of the iterated logarithm for the quadratic variation of a Wiener process. **89a:60187**

Einmahl, Uwe Strong approximations for partial sums of i.i.d. *B*-valued r.v.'s in the domain of attraction of a Gaussian law. **89d:60008**

Ermol′ev, Yu. M. *see* **Arthur, W. Brian; et al., 89d:60011** *and* **89d:60060**

Fazekas, I. A strong law of large numbers in Banach spaces of type Φ. **89a:60023**

Feneyrol-Perrin, Yvette Un théorème de Nelson sur la loi des grands nombres. [A theorem of Nelson on the law of large numbers] **89d:03067**

Földes, Antónia *see* **Csáki, Endre; et al., 89a:60186**

Gafurov, M. U. (*with* Sarymsakova, Kh. K.; Slastnikov, A. D.) Inequalities for series with probabilities of large deviations and their application. (Russian) **89g:60095**

Georgiev, Alexander A. Consistent nonparametric multiple regression: the fixed design case. **89e:62047**

Ghosh, Sankar On some versions of the de Finetti's theorem and the strong law of large numbers for Banach-space-valued functions. **89m:60083**

Giné, Evarist *see* **Andersen, Niels Trolle; et al., 89g:60009**

Hachem, Bachar *see* **Derriennic, Y., 89h:28024**

Härdle, W. (*with* Janssen, Paul; Serfling, R.) Strong uniform consistency rates for estimators of conditional functionals. **89i:62062**

Horváth, Lajos Limit laws for the averages of exponential random variables. **89m:60051**

— *see also* **Csörgő, Miklós, 89d:60061**

Hu, Tien Chung *see* **Taylor, Robert Lee, 89h:62070**

Ichihara, Kanji Comparison theorems for Brownian motions on Riemannian manifolds and their applications. **89c:58142**

Ikeda, Nobuyuki Limit theorems for a class of random currents. **89b:60186**

Janssen, Paul *see* **Härdle, W.; et al., 89i:62062**

Kaĭmanovich, V. A. Boundaries of random walks on polycyclic groups and the law of large numbers for solvable Lie groups. (Russian. English summary) **89j:60098**

Kaniovskiĭ, Yu. M. Limit behavior of fractions of balls in a generalized urn scheme with balls of two colors. (Russian) **89e:60021**

— *see also* **Arthur, W. Brian; et al., 89d:60011** *and* **89d:60060**

Kingman, J. F. C. Random dissections and branching processes. **89g:60258**

Klemes, Ivo *see* **Bañuelos, Rodrigo; et al., 89k:42019**

Lagodowski, Zbigniew A. Probabilities of moderate deviations for randomly indexed sums of random variables with multidimensional indices. **89e:60101**

Le, Hui Ling Strong laws of large numbers for random nonnegative closed convex sets in $\mathbf{R}^d$. (Chinese. English summary) **89i:60025**

Lerche, Hans Rudolf Sequential analysis and the law of the iterated logarithm. **89b:62172**

Levental, Shlomo Uniform limit theorems for Harris recurrent Markov chains. **89m:60150**

Li, De Li A remark on the symmetrization principle for sequences of *B*-valued random elements. (Chinese. English summary) **89i:60012**

— *see also* **Wu, Zhi Quan; et al., 89g:60020**

Makhmudov, Kh. *see* **Sarymsakov, K.**, (**89g:60002**)

Mason, David M. A strong invariance theorem for the tail empirical process. (French summary) **89m:60076**

Matrán, Carlos *see* **Cuesta, Juan Antonio, 89g:60011**

Mishra, M. N. *see* **Das, Gokulananda, 89g:60072**

Moore, Charles N. *see* **Bañuelos, Rodrigo; et al., 89k:42019**

Morris, Pricilla *see* **Arratia, R.; et al., 89h:60042**

Ossiander, Mina *see* **Andersen, Niels Trolle; et al., 89g:60009**

Philipp, Walter Invariance principles for independent and weakly dependent random variables. **89a:60093**

Račkauskas, A. Rate of convergence in a martingale central limit theorem in the space $C(S)$. (Russian. English and Lithuanian summaries) **89c:60051**

Rao, M. Bhaskara *see* **Wang, Xiang Chen, 89g:60019**

Resnick, Sidney *see* **Ballerini, Rocco, 89a:60241** *and* **89a:60242**

Révész, P. *see* **Csáki, Endre; et al., 89a:60186**

Rhee, WanSoo T. (*with* Talagrand, Michel) Exact bounds for the stochastic upward matching problem. **89h:60025**

Rudolph, Daniel J. Asymptotically Brownian skew products give non-loosely Bernoulli K-automorphisms. **89c:28031**

Sarymsakov, K. (*with* Makhmudov, Kh.) Some limit theorems for stationary processes. (Russian) (*see* **89g:60002**)

Sarymsakova, Kh. K. *see* **Gafurov, M. U.; et al., 89g:60095**

Serfling, R. *see* **Härdle, W.; et al., 89i:62062**

Shur, M. G. Ratio limit theorems. (Russian) **89j:60100a**

Shurenkov, V. M. Markovian interference of chance and laws of large numbers. (Russian) **89j:60100b**

Slastnikov, A. D. *see* **Gafurov, M. U.; et al., 89g:60095**

Soardi, P. M. Random walks on a discrete semigroup and Chebyshev polynomials. **89h:60015**

Stadtmüller, Ulrich Kernel approximations of a Wiener process. **89b:60195**

Stelzer, Bernd Random ergodic theorem and law of large number for Markov chains. **89d:60118**

Sun, Dong Chu A law of the iterated logarithm for nonparametric conditional density estimators. **89b:62089**

Sung, Soo Hak *see* **Choi, Bong Dae, 89b:60018**

Talagrand, Michel *see* **Rhee, WanSoo T., 89h:60025**

Taylor, Robert Lee (*with* Hu, Tien Chung) Consistency of kernel density estimators and laws of large numbers in $C_0(\mathbf{R})$. **89h:62070**

Tempel'man, A. A. Ergodic theorems for homogeneous random fields. (Russian) **89j:60100d**

Variakojis, L. The maximum length of a series of "successes" in a countable Markov chain. (Russian. English and Lithuanian summaries) **89j:60096**

Volný, Dalibor On the invariance principle and functional law of iterated logarithm for nonergodic processes. **89k:60047**

Wang, Xiang Chen (*with* Rao, M. Bhaskara) Some weak and strong laws of large numbers for $D[0,1]$-valued random variables. **89g:60019**

— *see also* **Wu, Zhi Quan; et al., 89g:60020**

Waterman, Michael S. *see* **Arratia, R.; et al., 89h:60042**

Wu, Zhi Quan (*with* Wang, Xiang Chen; Li, De Li) Some general results of the law of large numbers. **89g:60020**

Zaman, Asad A type 2 inequality for functions of bounded variation. **89d:60010**

Zinn, Joel *see* **Andersen, Niels Trolle; et al., 89g:60009**

60F17 Functional limit theorems; invariance theorems

Abzalimov, R. R. *see* **Zuparov, T. M., 89m:60078**

Andersen, Niels Trolle (*with* Giné, Evarist; Zinn, Joel) The central limit theorem for empirical processes under local conditions: the case of Radon infinitely divisible limits without Gaussian component. **89d:60059**

Anisimov, V. V. Functional limit theorems for nonhomogeneous Markov chains. (Russian) **89g:60118**

Arthur, W. Brian (*with* Ermol'ev, Yu. M.; Kaniovskiĭ, Yu. M.) ★ Предельные теоремы для долей шаров в обобщенной схеме урны с шарами N цветов, добавляемыми порциями случайного объема. (Russian) [Limit theorems for fractions of balls in a generalized urn scheme with balls of N colors that can be supplemented with portions of random size] **89d:60060**

Azlarov, T. A. (*with* Tursunov, R. T.) Rate of convergence in the invariance principle for random sums in triangular arrays. (Russian) **89b:60084**

Birkel, Thomas The invariance principle for associated processes. **89e:60074**

Borovskikh, Yu. V. Asymptotic behavior of integral functionals of a multidimensional empirical process. (Russian) **89a:60086**

Breuer, Peter Local limit theorems for functionals in the conditional invariance principle. **89b:60085**

Christoph, G. Strong approximations for partial sums of random variables attracted to a stable law. **89c:60043**

Csörgő, Miklós (*with* Horváth, Lajos; Steinebach, Josef) On the distribution of the suprema of weighted empirical processes. **89c:60044**

— (*with* Deheuvels, Paul; Horváth, Lajos) An approximation of stopped sums with applications in queueing theory. **89c:60045**

— (*with* Horváth, Lajos) A note on strong approximations of multivariate empirical processes. **89d:60061**

Dabrowski, André Robert Invariance principles in probability for stable processes generated by a class of dependent sequences. (French summary) **89d:60062**

Deheuvels, Paul (*with* Pfeifer, D.) Poisson approximations of multinomial distributions and point processes. **89d:60063**

— Strong approximations of kth records and kth record times by Wiener processes. **89b:60086**

— *see also* **Csörgő, Miklós; et al., 89c:60045**

Dehling, Herold Almost sure approximations for U-statistics. **89a:60087**

Denker, Manfred (*with* Puri, Madan L.) Asymptotic behavior of multiresponse permutation procedures. **89e:60075**

— (*with* Puri, Madan L.) An invariance principle for processes indexed by two parameters and some statistical applications. **89g:60119**

Doukhan, Paul (*with* Portal, Frédéric) Principe d'invariance faible pour la fonction de répartition empirique dans un cadre multidimensionnel et mélangeant. (English summary) [The weak invariance principle for the empirical distribution function in the multidimensional mixing case] **89d:60064**

Dronov, S. V. (*with* Sakhanenko, A. I.) On the rate of convergence in the multidimensional invariance principle for functionals of integral type. (Russian) **89e:60076**

Einmahl, John H. J. (*with* Ruymgaart, Frits H.; Wellner, Jon A.) A characterization of weak convergence of weighted multivariate empirical processes. **89g:60120**

Ermol'ev, Yu. M. *see* **Arthur, W. Brian; et al., 89d:60060**

Giné, Evarist (*with* Zinn, Joel) A remark on the central limit theorem for random measures and processes. **89e:60077**

— *see also* **Andersen, Niels Trolle; et al., 89d:60059**

Gorodniĭ, M. F. Limit behavior of the solutions of a stochastic difference equation in a Banach space. (Russian) **89g:60121**

Gramè, I. G. Nonclassical estimates for the rate of convergence in the central limit theorem for semimartingales. (Russian) **89a:60088**

— Sharpening of an estimate for the rate of convergence in the central limit theorem for semimartingales. (Russian) **89a:60089**

Harel, Michel (*with* Puri, Madan L.) Weak convergence of weighted multivariate empirical processes under mixing conditions. **89a:60090**

Horváth, Lajos *see* **Csörgő, Miklós; et al., 89c:60044; 89c:60045** *and* **89d:60061**

Huang, Li Ping Weak convergence of a class of jump processes. (Chinese. English summary) **89b:60087**

Jacod, Jean (*with* Shiryaev, A. N.) ★ Limit theorems for stochastic processes. **89k:60044**

Jakubowski, Adam A note on the invariance principle for stationary φ-mixing sequences: tightness via stopping times. **89m:60075**

Juknevičienė, D. The rate of convergence in the central limit theorem in the $C(S)$ space. **89j:60050**

Kaniovskiĭ, Yu. M. *see* **Arthur, W. Brian; et al., 89d:60060**

Kotelenez, Peter High density limit theorems for nonlinear chemical reactions with diffusion. **89g:60122**

Kruglov, V. M. Weak convergence of step-processes to a homogeneous Poisson process with independent increments. (Russian) **89h:60051**

Kubilius, K. On necessary and sufficient conditions for the convergence to quasicontinuous semimartingales. **89a:60091**

Kudlaev, È. M. On conditions for the weak convergence of distributions of separable statistics. (Russian) **89a:60092**

Major, P. (*with* Rejtő, L.) Strong embedding of the estimator of the distribution function under random censorship. **89k:60045**

Maller, R. A. A functional law of the iterated logarithm for distributions in the domain of partial attraction of the normal distribution. **89c:60046**

Maruyama, Gisiro Gaussian limit theorems for Wiener functionals. **89f:60035**

Mason, David M. A strong invariance theorem for the tail empirical process. (French summary) **89m:60076**

Matsumoto, Hiroyuki^2 Limit theorems for stochastic processes of jump type as current valued processes. **89c:60047**

Mishura, Yu. S. Sufficient conditions for the weak convergence of two-parameter semimartingales to fields of diffusion type. (Russian) **89e:60078**

Mnatsakanov, R. M. On the convergence of divisible statistics to the Poisson process. (Russian) **89f:60036**

Nolan, Deborah (*with* Pollard, David) Functional limit theorems for U-processes. **89g:60123**

Pagès, G. Un théorème de convergence fonctionnelle pour les intégrales stochastiques. [A functional convergence theorem for stochastic integrals] **89k:60046**

Pfeifer, D. *see* **Deheuvels, Paul, 89d:60063**

Philipp, Walter Invariance principles for independent and weakly dependent random variables. **89a:60093**

Pollard, David *see* **Nolan, Deborah, 89g:60123**

Portal, Frédéric *see* **Doukhan, Paul, 89d:60064**

Puri, Madan L. *see* **Harel, Michel, 89a:60090; Denker, Manfred, 89e:60075** *and* **89g:60119**

Rejtő, L. *see* **Major, P., 89k:60045**

Ruymgaart, Frits H. *see* **Einmahl, John H. J.; et al., 89g:60120**

Rychlik, Z. (*with* Szyszkowski, I.) The invariance principle for φ-mixing sequences. **89b:60088**

Sakhanenko, A. I. Simple method of obtaining estimates in the invariance principle. **89d:60065**

— *see also* **Dronov, S. V., 89e:60076**

Shiryaev, A. N. *see* **Jacod, Jean, 89k:60044**

Słomiński, Leszek Approximation of predictable characteristics of processes with filtrations. **89e:60079**

Steinebach, Josef On certain limits of strong invariance principles. **89b:60089**

— Invariance principles for renewal processes when only moments of low order exist. **89i:60073**

— *see also* **Csörgő, Miklós; et al., 89c:60044**

Szubarga, A. (*with* Szynal, D.) Conditioned limit theorems for functions of the average of i.i.d. random variables. **89c:60048**

Szynal, D. *see* **Szubarga, A., 89c:60048**

Szyszkowski, I. The invariance principle for functionals of sums of martingale differences. **89j:60051**

— *see also* **Rychlik, Z., 89b:60088**

Talagrand, Michel Donsker classes and random geometry. **89b:60090**

— Donsker classes of sets. **89g:60124**

Touati, Abderrahmen Loi fonctionnelle du logarithme itéré pour des processus de Markov récurrents. (English summary) [Functional law of the iterated logarithm for recurrent Markov processes] **89a:60094**

Tursunov, R. T. *see* **Azlarov, T. A., 89b:60084**

Urinov, I. K. Functional limit theorems for tests for the homogeneity of *k*-polynomial vectors of increasing dimension. (Russian) **89m:60077**

Venttsel′, A. D. Limit theorems with refinements for random processes. (Russian) **89h:60052**

Volný, Dalibor On the invariance principle and functional law of iterated logarithm for nonergodic processes. **89k:60047**

Vostrikova, L. Yu. Limit theorems for the likelihood ratio processes of statistical parametric models. **89g:60125**

Wang, Zhi Ming Some notes on the strong ergodic property of nonhomogeneous Markov processes. (Chinese. English summary) **89h:60053**

Watkins, Joseph C. Functional central limit theorems and their associated large deviation principles for products of random matrices. **89b:60091**

Wellner, Jon A. *see* **Einmahl, John H. J.; et al., 89g:60120**

Yu, Hao A note on weak invariance principles for functions of mixing processes. (Chinese. English summary) **89f:60037**

Zinn, Joel *see* **Andersen, Niels Trolle; et al., 89d:60059** *and* **Giné, Evarist, 89e:60077**

Zuparov, T. M. (*with* Abzalimov, R. R.) Weak convergence of empirical processes of weakly dependent random vectors. (Russian) **89m:60078**

Items with secondary classifications in 60F17

Andersen, Niels Trolle (*with* Dobrić, V.) The central limit theorem for stochastic processes. II. **89h:60010**

Avram, Florin Weak convergence of the variations, iterated integrals and Doléans-Dade exponentials of sequences of semimartingales. **89e:60097**

Babanin, A. S. *see* **Girko, V. L., 89k:62072**

Baldi, Paolo Large deviations and stochastic homogenization. **89m:60060**

Ballerini, Rocco (*with* Resnick, Sidney) Embedding sequences of successive maxima in extremal processes, with applications. **89a:60241**

Beirlant, Jan Limit theory for spacing statistics from general univariate distributions. **89a:62044**

Bentkus, Vidmantas-Kastytis Jurgio (*with* Liubinskas, K.) Rate of convergence in the invariance principle in Banach spaces. (Russian. English and Lithuanian summaries) **89c:60012**

Beran, Rudolf (*with* Le Cam, L.; Millar, P. W.) Convergence of stochastic empirical measures. **89a:62045**

Bhattacharya, Rabi N. (*with* Lee, Oesook) Asymptotics of a class of Markov processes which are not in general irreducible. **89m:60148**

Bielecki, T. (*with* Stettner, Ł.) On some problems arising in asymptotic analysis of Markov processes with singularly perturbed generators. **89e:60138**

Bingham, Michael S. Functional central limit theorems for approximate martingale arrays in a locally compact abelian group. **89i:60018**

Borodin, A. N. On the weak convergence to Brownian local time. **89g:60239**

— A weak invariance principle for local times. **89a:60178**

Burton, Robert M., Jr. (*with* Kim, Tae-Sung) An invariance principle for associated random fields. **89d:60094**

Butov, A. A. (*with* Krichagina, E. V.) A functional limit theorem for a symmetric walk in a random environment. (Not in MR)

Chow, P. L. Travel-time problems for waves in random media. **89g:35122**

Csörgő, Miklós (*with* Horváth, Lajos) On the distributions of L_p norms of weighted uniform empirical and quantile processes. **89a:60056**

Deheuvels, Paul (*with* Révész, P.) Weak laws for the increments of Wiener processes, Brownian bridges, empirical processes and partial sums of i.i.d. r.v.'s. **89a:60057**

Dobrić, V. *see* **Andersen, Niels Trolle, 89h:60010**

Egorov, V. A. A generalization of the law of the iterated logarithm. (Russian) **89c:60035**

Einmahl, Uwe Strong approximations for partial sums of i.i.d. *B*-valued r.v.'s in the domain of attraction of a Gaussian law. **89d:60008**

Ethier, S. N. (*with* Nagylaki, Thomas) Diffusion approximations of Markov chains with two time scales and applications to population genetics. II. **89i:60154**

Galves, A. (*with* Presutti, Errico) Edge fluctuations for the one-dimensional supercritical contact process. **89c:60117**

— (*with* Presutti, Errico) Travelling wave structure of the one-dimensional contact process. **89c:60118**

Gijbels, I. (*with* Janssen, Paul; Veraverbeke, N.) Weak and strong representations for trimmed *U*-statistics. **89b:60074**

Gill, R. D. (*with* Vardi, Yehuda; Wellner, Jon A.) Large sample theory of empirical distributions in biased sampling models. **89i:62061**

Girko, V. L. (*with* Babanin, A. S.) A G_8-estimate for the solutions of empirical systems of linear algebraic equations. (Russian) **89k:62072**

Goodman, Victor (*with* Kuelbs, J.) Rates of convergence for increments of Brownian motion. **89a:60080**

Grigelionis, B. (*with* Mikulevičius, R.) Functional limit theorems for queueing systems under heavy traffic. I. (Russian) **89e:60187**

— (*with* Mikulevičius, R.) Functional limit theorems for queueing systems under heavy traffic. II. (Russian. English and Lithuanian summaries) **89e:60188**

Grübel, R. The length of the shorth. **89j:62069**

Hansen, Jennie C. A functional central limit theorem for random mappings. **89m:60028**

Harel, Michel (*with* Puri, Madan L.) L'espace $\tilde{D}_k$ et la convergence faible du processus empirique indexé par rectangles en condition de mélange. (English summary) [The space $\tilde{D}_k$ and weak convergence for rectangle-indexed empirical processes under mixing conditions] **89b:60020**

— (*with* Puri, Madan L.) Comportement limite de la *U*-statistique, de la *V*-statistique et d'une statistique de rang à un échantillon pour des processus absolument réguliers non stationnaires. (English summary) [Limiting behavior of *U*-statistics, *V*-statistics and one sample rank order statistics for nonstationary absolutely regular processes] **89d:60042**

Harrison, J. Michael (*with* Williams, Ruth J.) Brownian models of open queueing networks with homogeneous customer populations. **89b:60215**

Heunis, A. J. Asymptotic properties of prediction error estimators in approximate system identification. **89j:93128**

Horváth, Lajos (*with* Yandell, Brian S.) Convergence rates for the bootstrapped product-limit process. **89b:62046**

— *see also* **Csörgő, Miklós, 89a:60056**

Jacod, Jean (*with* Sadi, H.) Processus admettant un processus à accroissements indépendants tangent: cas général. [Processes admitting a tangent process with independent increments: the general case] **89m:60111**

— Sur la convergence des processus ponctuels. (English summary) [On the convergence of point processes] **89a:60128**

— Partial likelihood process and asymptotic normality. **89e:62025**

Jakubowski, Adam On the Skorokhod topology. (French summary) **89a:60008**

Janssen, Paul *see* **Gijbels, I.; et al., 89b:60074**

Kallenberg, Olav One-dimensional uniqueness and convergence criteria for exchangeable processes. **89f:60038**

Kim, Tae-Sung *see* **Burton, Robert M., Jr., 89d:60094**

Kochmala, I. V. Asymptotic estimation in the statistics of processes with a discrete component. (Russian. English and Georgian summaries) **89a:62189**

Krengel, Ulrich (*with* Pyke, R.) Uniform pointwise ergodic theorems for classes of averaging sets and multiparameter subadditive processes. **89h:60048**

Krichagina, E. V. *see* **Butov, A. A.,** (Not in MR)

Kuelbs, J. *see* **Goodman, Victor, 89a:60080**

Kushner, Harold J. (*with* Yin, Gang George) Asymptotic properties of distributed and communicating stochastic approximation algorithms. **89c:60028**

— (*with* Ramachandran, K. M.) Nearly optimal singular controls for wideband noise driven systems. **89c:93082**

Lachout, Petr Billingsley-type tightness criteria for multiparameter stochastic processes. **89m:60015**

Lea, Cheun-Der (*with* Puri, Madan L.) Asymptotic properties of perturbed empirical distribution functions evaluated at a random point. **89g:60108**

Le Cam, L. *see* **Beran, Rudolf; et al., 89a:62045**

Lee, Oesook *see* **Bhattacharya, Rabi N., 89m:60148**

Levental, Shlomo Uniform limit theorems for Harris recurrent Markov chains. **89m:60150**

Lin, Zheng Yan Convergence of integrals of a stationary weakly correlated process. (Chinese. English summary) **89a:60066**

Liubinskas, K. *see* **Bentkus, Vidmantas-Kastytis Jurgio, 89c:60012**

Manstavičius, Eugenijus An invariance principle for additive arithmetic functions. **89i:11094**

Mijnheer, Joop A functional form for the lower Lipschitz condition for the stable subordinator. **89f:60082**

Mikulevičius, R. *see* **Grigelionis, B., 89e:60187** *and* **89e:60188**

Millar, P. W. *see* **Beran, Rudolf; et al., 89a:62045**

Mori, Toshio (*with* Oodaira, Hiroshi) The functional iterated logarithm law for stochastic processes represented by multiple Wiener integrals. **89a:60082**

Morkvėnas, R. Convergence of two-parameter random processes. (Russian. English and Lithuanian summaries) **89i:60009**

Nagylaki, Thomas *see* **Ethier, S. N., 89i:60154**

Nappo, G. (*with* Orlandi, E.) Limit laws for a coagulation model of interacting random particles. (French summary) **89m:60256**

Oodaira, Hiroshi *see* **Mori, Toshio, 89a:60082**

Orlandi, E. *see* **Nappo, G., 89m:60256**

Paulauskas, Vygantas Estimates of the rate of convergence in the central limit theorem in Banach spaces. **89h:60013**

Phillips, P. C. B. Weak convergence to the matrix stochastic integral $\int_0^1 B\,dB'$. **89d:62095**

Presutti, Errico *see* **Galves, A., 89c:60117** *and* **89c:60118**

Puri, Madan L. *see* **Harel, Michel, 89b:60020; 89d:60042** *and* **Lea, Cheun-Der, 89g:60108**

Pyke, R. *see* **Krengel, Ulrich, 89h:60048**

Ramachandran, K. M. *see* **Kushner, Harold J., 89c:93082**

Resnick, Sidney *see* **Ballerini, Rocco, 89a:60241**

Révész, P. *see* **Deheuvels, Paul, 89a:60057**

Sadi, H. *see* **Jacod, Jean, 89m:60111**

Savchuk, M. N. Limit theorems in a scheme of group allocation of particles with random levels. (Russian) **89a:60034**

Stettner, Ł. *see* **Bielecki, T., 89e:60138**

Takahata, Hiroshi An invariance principle for integral type functionals of weakly dependent random processes. **89d:60052**

Talagrand, Michel On liftings and the regularization of stochastic processes. **89g:60017**

Uchiyama, Kôhei Fluctuations in a Markovian system of pairwise interacting particles. **89i:60198**

Vardi, Yehuda *see* **Gill, R. D.; et al., 89i:62061**

Veraverbeke, N. *see* **Gijbels, I.; et al., 89b:60074**

Vostrikova, L. Yu. Functional limit theorems for the likelihood ratio processes. **89e:62037**

Weber, Michel Jean Georges La loi du logarithme itéré sur toute sous-suite; caractérisations. (English summary) [The law of the iterated logarithm on subsequences; characterizations] **89a:60085**

Wellner, Jon A. *see* **Gill, R. D.; et al., 89i:62061**

Williams, Ruth J. *see* **Harrison, J. Michael, 89b:60215**

Yandell, Brian S. *see* **Horváth, Lajos, 89b:62046**

Yin, Gang George *see* **Kushner, Harold J., 89c:60028**

Yor, Marc Renormalisation et convergence en loi pour les temps locaux d'intersection du mouvement brownien dans $\mathbf{R}^3$. [Renormalization and convergence in law for local times of intersection of Brownian motion in $\mathbf{R}^3$] **89b:60196**

60F20 Zero-one laws

Items with secondary classifications in 60F20

Byczkowska, H. (*with* Byczkowski, T.) Zero-one law for subgroups of paths of group-valued stochastic processes. **89g:60022**

Byczkowski, T. *see* **Byczkowska, H., 89g:60022**

60F25 L^p-limit theorems

Boivin, Daniel Récurrence multiple et contractions linéaires. (English summary) [Multiple recurrence and linear contractions] **89b:60092**

Devi, Prativa *see* **Samal, G., 89g:60126**

Freniche, Francisco J. Cesàro convergence of martingale difference sequences and the Banach-Saks and Szlenk theorems. **89d:60066**

Marushin, M. N. Convergence to the moments of a Poisson law for sums of random numbers of independent variables. (Russian) **89j:60052**

Nematov, I. An estimate for the remainder term of a limit theorem for densities in the metric L_p $(p \geq 1)$. (Russian) (*see* **89g:60002**)

Omey, E. Rates of convergence for densities in extreme value theory. **89h:60054**

Rataj, Jan Some remarks on Fourier seminorms. (Russian and Czech summaries) **89a:60095**

Ryabykh, V. G. (*with* Tokmakova, N. N.; Yablonskiĭ, A. Ya.) Approximation of random functions. (Russian) **89h:60055**

Sakalauskas, V. The asymptotics of absolute moments of sums of a random number of independent random variables. **89j:60053**

Samal, G. (*with* Devi, Prativa) Integral properties of a stochastic process. **89g:60126**

Tokmakova, N. N. *see* **Ryabykh, V. G.; et al., 89h:60055**

Yablonskiĭ, A. Ya. *see* **Ryabykh, V. G.; et al., 89h:60055**

Items with secondary classifications in 60F25

Csörgő, Miklós (*with* Horváth, Lajos) On the distributions of L_p norms of weighted uniform empirical and quantile processes. **89a:60056**

Horváth, Lajos *see* **Csörgő, Miklós, 89a:60056**

Krajka, A. On the limit behaviour of H-valued martingales with random indices. (Russian summary) **89j:60010**

Ohkubo, Hikaru On a class of stochastic integrals. **89h:60090**

— Almost sure convergence for stochastic integrals. **89h:60091**

Pogány, Tibor Singuläre zufällige Prozesse und mittelquadratische Konvergenz. (English summary) [Singular random processes and mean square convergence] **89d:60069**

60F99 None of the above, but in this section

Akulov, G. V. *see* **Girko, V. L., 89a:60097**

Bai, Zhi Dong (*with* Yin, Yong Quan) Convergence to the semicircle law. **89c:60049**

Diaconis, P. (*with* Freedman, D. A.) Conditional limit theorems for exponential families and finite versions of de Finetti's theorem. **89g:60127**

Dorea, C. C. Y. (*with* Sastrosoewignjo, S.) Bivariate CDF iterations and asymptotic independence. **89a:60096**

Feng, Ci Huang Extensions of two theorems of Serfling. (Chinese. English summary) **89e:60080**

Freedman, D. A. *see* **Diaconis, P., 89g:60127**

Girko, V. L. (*with* Akulov, G. V.) Theorems of the law of large numbers type for functionals of the products of independent random matrices. (Russian) **89a:60097**

— An equation for the Stieltjes transforms of the limiting spectral functions of isotropic random matrices. **89m:60079**

Guivarc'h, Y. (*with* Hardy, J.) Théorèmes limites pour une classe de chaînes de Markov et applications aux difféomorphismes d'Anosov. (English summary) [Limit theorems for a class of Markov chains and applications to Anosov diffeomorphisms] **89m:60080**

Hardy, J. *see* **Guivarc'h, Y., 89m:60080**

Hudson, William N. (*with* Jurek, Zbigniew J.; Veeh, Jerry Alan) The symmetry group and exponents of operator stable probability measures. **89b:60093**

Janković, Slobodanka On a functional equation occurring in the limit theorem for maxima with random indices. **89b:60094**

Jurek, Zbigniew J. *see* **Hudson, William N.; et al., 89b:60093**

Lai, T. L. Boundary crossing problems for sample means. **89h:60056**

Sastrosoewignjo, S. *see* **Dorea, C. C. Y., 89a:60096**

Schürger, K. On Derriennic's almost subadditive ergodic theorem. **89h:60057**

Veeh, Jerry Alan *see* **Hudson, William N.; et al., 89b:60093**

Yin, Yong Quan *see* **Bai, Zhi Dong, 89c:60049**

Items with secondary classifications in 60F99

Boogaert, P. (*with* Haezendonck, J.; Delbaen, F.) Limit theorems for the present value of the surplus of an insurance portfolio. **89h:62165**

Borovkov, A. A. Limit theorems for queueing networks. II. (Russian) **89b:60208**

Choi, Byoung Seon *see* **Csiszár, I.; et al., 89c:60074**

Choukairi, A. Sur la convergence d'espérances conditionnelles de multiapplications. [Convergence of conditional expectations of multivalued mappings] **89i:60014**

Cover, Thomas M. *see* **Csiszár, I.; et al., 89c:60074**

Crisanti, A. *see* **Sommers, H.-J.; et al., 89d:82055**

Csiszár, I. (*with* Cover, Thomas M.; Choi, Byoung Seon) Conditional limit theorems under Markov conditioning. **89c:60074**

Davis, Richard Alan (*with* Mulrow, Edward; Resnick, Sidney) Almost sure limit sets of random samples in $\mathbf{R}^d$. **89h:60023**

Delbaen, F. *see* **Boogaert, P.; et al., 89h:62165**

Feuerverger, Andrey Empirical saddlepoint convergence. **89b:62080**

Glynn, Peter W. (*with* Iglehart, Donald L.) A new class of strongly consistent variance estimators for steady-state simulations. **89f:62029**

Goldie, Charles M. (*with* Resnick, Sidney) Subexponential distribution tails and point processes. **89m:60043**

Greenwood, Priscilla E. (*with* Hooghiemstra, Gerard) An extreme-type limit law for a storage process. **89d:60191**

Haezendonck, J. *see* **Boogaert, P.; et al., 89h:62165**

Hansen, Per Christian The 2-norm of random matrices. **89k:15037**

Hooghiemstra, Gerard *see* **Greenwood, Priscilla E., 89d:60191**

Iglehart, Donald L. *see* **Glynn, Peter W., 89f:62029**

Iosifescu, Marius Mixing properties for f-expansions: the bounded p-variation case. **89b:11069**

Iri, M. *see* **Kabaya-Imai, Keiko, 89d:26023**

Janson, Svante Random coverings of the circle by arcs with restricted endpoints. **89b:60030**

Jurečková, Jana (*with* Sen, Pranab Kumar) An extension of Billingsley's uniform boundedness theorem to higher-dimensional M-processes. **89j:62049**

Kabaya-Imai, Keiko (*with* Iri, M.) Sum of uniformly distributed random variables and a family of nonanalytic C^∞-functions. **89d:26023**

Koski, T. An asymptotic localization by perturbing operators for partial observation of a stochastic evolution equation. **89i:60126**

Mulrow, Edward *see* **Davis, Richard Alan; et al., 89h:60023**

Nagasawa, Masao (*with* Tanaka, Hiroshi[1]) On the propagation of chaos for diffusion processes with drift coefficient not of average form. **89a:60184**

Negoro, Akira (*with* Tsuchiya, Masaaki) A convergence condition for stochastic processes associated with Lévy generating operators. **89j:60104**

Nguyễn Nam Hồng On convergence of some random series and integrals. **89e:60102**

Osada, Hirofumi Propagation of chaos for the two-dimensional Navier-Stokes equation. **89e:60115**

Resnick, Sidney *see* **Davis, Richard Alan; et al., 89h:60023** *and* **Goldie, Charles M., 89m:60043**

Ruzsa, Imre Z. Infinite divisibility. II. **89m:60036**

Sen, Pranab Kumar *see* **Jurečková, Jana, 89j:62049**

Serfozo, Richard F. Correction to: "Compound Poisson approximations for sums of random variables" [Ann. Probab. **14** (1986), no. 4, 1391–1398; MR 88d:60019]. **89a:60013**

Sommers, H.-J. (*with* Crisanti, A.; Sompolinsky, H.; Stein, Y.) Spectrum of large random asymmetric matrices. **89d:82055**

Sompolinsky, H. *see* **Sommers, H.-J.; et al., 89d:82055**

Stadje, W. The influence of the initial distribution on a random walk. **89k:60096**

Stein, Y. *see* **Sommers, H.-J.; et al., 89d:82055**

Tanaka, Hiroshi[1] *see* **Nagasawa, Masao, 89a:60184**

Tsuchiya, Masaaki *see* **Negoro, Akira, 89j:60104**

Yoshimoto, Takeshi Ergodic theorems and summability methods. **89b:47015**

60Gxx Stochastic processes

60G05 Foundations of stochastic processes

Bach, Alexander (*with* Plachky, D.; Thomsen, W.) A characterization of identifiability of mixtures of distributions. **89g:60128**

Bradley, Richard C. (*with* Bryc, Włodzimierz; Janson, Svante) On dominations between measures of dependence. **89h:60058**

Bryc, Włodzimierz *see* **Bradley, Richard C.; et al., 89h:60058**

Drisch, Thomas (*with* Sendler, Wolfgang) A remark on realizations of stochastic processes. **89g:60129**

Dynkin, E. B. (*with* Fitzsimmons, P. J.) Stochastic processes on random domains. (French summary) **89a:60098**

Fitzsimmons, P. J. *see* **Dynkin, E. B., 89a:60098**

Hooper, Peter M. (*with* Thorisson, Hermann) On killed processes and stopped filtrations. **89i:60074**

Hoover, Douglas N. A characterization of adapted distribution. **89b:60095**

Jakimavičius, D. *see* **Statulevičius, Vytautas, 89g:60130**

Janson, Svante *see* **Bradley, Richard C.; et al., 89h:60058**

Kallenberg, Olav An elementary approach to the Daniell-Kolmogorov theorem and some related results. **89m:60081**

Métivier, Michel Weak convergence of measure valued processes using Sobolev-imbedding techniques. **89d:60067**

Meyer, P.-A. Fock space and probability theory. **89c:60050**

Plachky, D. *see* **Bach, Alexander; et al., 89g:60128**

Račkauskas, A. Rate of convergence in a martingale central limit theorem in the space $C(S)$. (Russian. English and Lithuanian summaries) **89c:60051**

Rätz, Jürg (*with* Russell, Dennis C.) An extremal problem related to probability. **89b:60096**

Russell, Dennis C. *see* **Rätz, Jürg, 89b:60096**

Sendler, Wolfgang *see* **Drisch, Thomas, 89g:60129**

Statulevičius, Vytautas (*with* Jakimavičius, D.) Estimates for the cumulants and centered moments of random processes with intermixing. I. **89g:60130**

Tainaka, Kei-ichi Representation of detailed balance by moments. **89h:60059**

Thomsen, W. *see* **Bach, Alexander; et al., 89g:60128**

Thorisson, Hermann *see* **Hooper, Peter M., 89i:60074**

Wunsch, G. Foundations of a general process theory. **89m:60082**

Zięba, Wiesław On the $L^1_{\mathcal{F}}$ convergence for conditional amarts. **89g:60131**

Items with secondary classifications in 60G05

Accardi, Luigi (*with* Schürmann, Michael; von Waldenfels, Wilhelm) Quantum independent increment processes on superalgebras. **89h:46092**

Chuaqui, Rolando Sets of relational systems as models for stochastic processes. **89f:60005**

Dellacherie, C. Théorie générale du balayage. [General theory of balayage] **89c:60087**

Fenstad, Jens Erik Infinities in mathematics and the natural sciences. **89f:03005**

Jakubowski, Adam On the Skorokhod topology. (French summary) **89a:60008**

Kakihara, Yûichirô A note on bounded and continuous processes. **89j:60056**

Karandikar, Rajeeva L. A general principle for limit theorems in finitely additive probability: the dependent case. **89b:60057**

Lamb, Charles W. A comparison of methods for constructing probability measures on infinite product spaces. **89f:60004**

Malczak, Jan Asymptotic properties of random processes defined by a family of transformations and ergodicity. **89d:60045**

Obata, Nobuaki Analysis of the Lévy Laplacian. **89m:46080**

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Talagrand, Michel On liftings and the regularization of stochastic processes. **89g:60017**

von Waldenfels, Wilhelm *see* **Accardi, Luigi; et al., 89h:46092**

60G07 General theory of processes

Bojdecki, Tomasz ★ Teoría general de procesos e integración estocástica. Parte I. (Spanish) [The general theory of processes and stochastic integration. Part I] **89a:60099**

Dalang, Robert C. On stopping points in the plane that lie on a unique optional increasing path. **89k:60048**

Jacka, S. D. Doob's inequalities revisited: a maximal H^1-embedding. **89j:60054**

Letta, Giorgio An example of the application of the "general" theory of processes to a martingale representation problem. (Italian. English and French summaries) **89d:60068**

Skorokhod, A. V. Stochastic processes in infinite-dimensional spaces. (Russian) **89e:60081**

Stricker, C. Variation conditionnelle des processus stochastiques. (English summary) [Conditional variation of stochastic processes] **89k:60049**

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Caines, Peter E. ★ Linear stochastic systems. **89f:93037**

Dalang, Robert C. Optimal stopping of two-parameter processes on nonstandard probability spaces. **89m:60099**

Imkeller, Peter ★ Two-parameter martingales and their quadratic variation. **89e:60098**

Jacob, Christine Cycles limites stochastiques et confineurs pour processus markoviens. (English summary) [Stochastic limit cycles and confiners for Markov processes] **89g:60225**

Jacod, Jean Partial likelihood process and asymptotic normality. **89e:62025**

Lindenberg, Katja *see* **West, Bruce J., 89f:82030**

Mecozzi, A. (*with* de Pasquale, F.; Peliti, Luca) Unified approach to stochastic representations in reaction kinetics. (Italian and Russian summaries) **89d:80023**

de Pasquale, F. *see* **Mecozzi, A.; et al., 89d:80023**

Peliti, Luca *see* **Mecozzi, A.; et al., 89d:80023**

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van der Vecht, D. P. Ultimateness and the Azéma-Yor stopping time. **89e:60158**

West, Bruce J. (*with* Lindenberg, Katja) State-dependent fluctuations in open systems: simple models. **89f:82030**

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Yanovich, L. A. Best quadrature formulas in spaces of trajectories of random processes. (English summary) **89b:65064**

60G09 Exchangeability

Cheng, Shi Hong Records of exchangeable sequences. (Chinese. English summary) **89a:60100**

Ghosh, Sankar On some versions of the de Finetti's theorem and the strong law of large numbers for Banach-space-valued functions. **89m:60083**

Kallenberg, Olav Spreading and predictable sampling in exchangeable sequences and processes. **89b:60097**

— Some new representations in bivariate exchangeability. **89a:60101**

— One-dimensional uniqueness and convergence criteria for exchangeable processes. **89f:60038**

Ressel, Paul A very general de Finetti-type theorem. **89a:60102**

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Diaconis, P. (*with* Freedman, D. A.) Conditional limit theorems for exponential families and finite versions of de Finetti's theorem. **89g:60127**

Freedman, D. A. *see* **Diaconis, P., 89g:60127**

Patterson, Ronald Frank Strong convergence for U-statistics in arrays of row-wise exchangeable random variables. **89k:60041**

Plachky, D. Complete convergence of the sample mean for exchangeable random variables. **89g:60110**

Rosalsky, Andrew A strong law for a set-indexed partial sum process with applications to exchangeable and stationary sequences. **89g:60113**

Vaillancourt, J. Measure-valued limits for some exchangeable systems of particles. **89g:60172**

60G10 Stationary processes

Aaronson, Jon (*with* Gilat, David; Keane, Michael; de Valk, Vincent) An algebraic construction of a class of one-dependent processes. **89m:60084**

Berbee, Henry Chains with infinite connections: uniqueness and Markov representation. **89c:60052**

Dègerine, Serge Fonction d'autocorrélation partielle canonique d'un processus vectoriel stationnaire. (English summary) [Canonical partial autocorrelation function for a multivariate stationary time series] **89a:60103**

Deistler, Manfred *see* **Hannan, E. J., 89m:60085**

Elishakoff, I. Measurement of characteristics of stationary random processes. **89g:60132**

Fadeeva, E. P. Solution of the extrapolation problem for a class of stochastic processes.

— Extrapolation from a finite interval for a stationary process of a particular form.

Gaposhkin, V. F. On the connection between the ergodicity of a continuous-time stationary process and a quantized process. **89k:60050**

Gilat, David *see* **Aaronson, Jon; et al., 89m:60084**

Haiman, George Almost sure asymptotic behavior of the record and record time sequences of a stationary Gaussian process. **89c:60053**

— Étude des extrêmes d'une suite stationnaire m-dépendante avec une application relative aux accroissements du processus de Wiener. (English summary) [Study of the extrema of an m-dependent stationary sequence with an application involving the increments of the Wiener process] **89a:60104**

Hannan, E. J. (*with* Deistler, Manfred) ★ The statistical theory of linear systems. **89m:60085**

Horák, Karel (*with* Müller, Vladimír; Vrbová, Pavla) A remark concerning uniqueness of the Wold decomposition of finite-dimensional stationary processes. (Russian and Czech summaries) **89c:60054**

Keane, Michael *see* **Aaronson, Jon; et al., 89m:60084**

Konstantopoulos, Panagiotis (*with* Walrand, Jean) On the weak convergence of stochastic processes with embedded point processes. **89g:60133**

Leadbetter, M. R. (*with* Rootzén, Holger) Extremal theory for stochastic processes. **89b:60098**

Lindgren, G. (*with* Rootzén, Holger) Extreme values: theory and technical applications. **89i:60075**

Mesropyan, N. Kh. Multiplicity of innovation processes for processes of incomplete rank. (Russian. English and Armenian summaries) **89b:60099**

Miamee, A. G. On the Wiener-Masani algorithm for finding the generating function of multivariate stochastic processes. **89m:60086**

Mokkadem, Abdelkader Mixing properties of ARMA processes. **89i:60076**

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Okabe, Yasunori On long time tails of correlation functions for KMO-Langevin equations. **89g:60134**

Pikersgil', E. A. A limit theorem for the number of crossings of a curvilinear level by a stationary Gaussian process. (Russian) **89f:60039**

Pogány, Tibor Singuläre zufällige Prozesse und mittelquadratische Konvergenz. (English summary) [Singular random processes and mean square convergence] **89d:60069**

Ponomarev, E. P. Use of variational principles for the synthesis of nonlinear models for Markovian sequences. **89i:60077**

Rootzén, Holger *see* **Leadbetter, M. R., 89b:60098** *and* **Lindgren, G., 89i:60075**

Sato, Yumiko Remarks on the canonical representation of stationary linear symmetric α-stable processes $(0 < \alpha < 1)$. **89g:60135**

Smith, Richard L. A counterexample concerning the extremal index. **89g:60136**

Strunkov, S. P. A criterion for the existence of a spectral expansion of a function of a stationary process. (Russian) **89h:60060**

Szeidl, László On the estimation of cross dispersion function. **89k:60051**

Tairov, M. F. Harmonic analysis and linear transformation of stationary random processes with an application of the singular Hilbert operator. (Russian) **89j:60055**

Tortorella, Michael Stationarity in models of successive stochastic phenomena. **89i:60078**

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Yaglom, A. M. ★ Correlation theory of stationary and related random functions. Vol. I. **89a:60105**

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— On some results on M. I. Gordin: a clarification of a misunderstanding. **89d:60037**

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— *see also* **Liu, Jian^3, 89j:62127**

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Chiyonobu, T. (*with* Kusuoka, Shigeo) The large deviation principle for hypermixing processes. **89i:60061**

Davis, Richard Alan *see* **Brockwell, Peter J., 89k:62120**

Derriennic, Y. (*with* Hachem, Bachar) Sur la convergence en moyenne des suites presque sous-additives. [On the convergence in the mean of almost subadditive sequences] **89h:28024**

Dziubdziela, Wiesław A compound Poisson limit theorem for stationary mixing sequences. **89j:60036**

Epps, T. W. Testing that a stationary time series is Gaussian. **89c:62152**

Evans, Steven N. The maximum distribution of a Gaussian stochastic process indexed by a local field. **89m:60091**

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Green, Michael All-pass matrices, the positive real lemma, and unit canonical correlations between future and past. **89c:62153**

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Inoue, Kazuyuki Conjugate sets of Gaussian random fields on a Hilbert space. **89a:60108**

Ismatkhodzhaev, S. K. Asymptotic theorems on the variance of the average of stationary random processes. (Russian) **89k:60057**

Janson, Svante Some pairwise independent sequences for which the central limit theorem fails. **89e:60048**

Kakihara, Yûichirô Series representations and Karhunen processes. **89g:60137**

Kifer, Yuri A note on integrability of G^r-norms of stochastic flows and applications. **89k:60107**

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Körezlioğlu, Hayri (*with* Loubaton, Ph.) Prediction and spectral decomposition of wide sense stationary processes on $\mathbf{Z}^2$. (French summary) **89i:60087**

Krengel, Ulrich (*with* Pyke, R.) Uniform pointwise ergodic theorems for classes of averaging sets and multiparameter subadditive processes. **89h:60048**

Kubo, Izumi (*with* Murata, Hiroshi; Totoki, Haruo) Helices and isomorphism problems in ergodic theory. **89e:28035**

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Le Breton, Alain Représentation ARMA d'un processus gaussien à temps continu stationnaire de densité spectrale rationnelle. (English summary) [ARMA representation of a continuous-time stationary Gaussian process with rational spectral density] **89j:60057**

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Liu, Jian^3 (*with* Brockwell, Peter J.) On the general bilinear time series model. **89j:62127**
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Makagon, A. (*with* Salehi, H.) Spectral dilation of operator-valued measures and its application to infinite-dimensional harmonizable processes. **89a:60019**
Makhmudov, Kh. *see* **Sarymsakov, K.,** (**89g:60002**)
Massé, J.-C. *see* **Carmichael, J.-P.; et al., 89f:60041**
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Mignolet, M. P. (*with* Spanos, P. D.) Recursive simulation of stationary multivariate random processes. I. **89i:93129**
— *see also* **Spanos, P. D., 89i:93130**
Mode, Charles J. (*with* Root, Terry) Projecting age-structured populations in a random environment. **89f:92048**
Moore, Marc Spatial linear processes. **89g:60174**
Morita, Takehiko Deterministic version lemmas in ergodic theory of random dynamical systems. **89e:28036**
Murata, Hiroshi *see* **Kubo, Izumi; et al., 89e:28035**
Nakhapetyan, B. S. An approach to the proof of limit theorems for dependent random variables. (Russian) **89b:60061**
Ohsumi, Akira Linear estimation of random fields with second-order increments and its application. **89m:60120**
Orey, Steven (*with* Pelikan, Stephan) Large deviation principles for stationary processes. **89j:60044**
Otter, Pieter W. Structural, dynamic modelling in unobservable spaces of covariance-stationary stochastic processes. **89f:62081**
Peiris, M. Shelton On the study of some functions of multivariate ARMA processes. **89d:62094**
Peligrad, Magda On the central limit theorem for ρ-mixing sequences of random variables. **89d:60051**
Pelikan, Stephan *see* **Orey, Steven, 89j:60044**
Pikersgil', E. A. (*with* Piterbarg, V. I.) An estimate for the rate of convergence in the Poisson limit theorem for large excursions of a stationary Gaussian process. (Russian) **89e:60054**
Piterbarg, V. I. *see* **Pikersgil', E. A., 89e:60054**
Pogány, Tibor Padé-approximation and band-limited processes. **89j:41023**
Puri, Madan L. *see* **Hallin, Marc; et al., 89f:62077**
Pyke, R. *see* **Krengel, Ulrich, 89h:60048**
del Rio, Jose Luis *see* **Medina-Noyola, M., 89c:82028**
Root, Terry *see* **Mode, Charles J., 89f:92048**
Rootzén, Holger Maxima and exceedances of stationary Markov chains. **89e:60129**
Rosalsky, Andrew A strong law for a set-indexed partial sum process with applications to exchangeable and stationary sequences. **89g:60113**
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Spanos, P. D. (*with* Mignolet, M. P.) Recursive simulation of stationary multivariate random processes. II. **89i:93130**
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Theodorescu, R. *see* **Carmichael, J.-P.; et al., 89f:60041**
Thouvenot, Jean-Paul The metrical structure of some Gaussian processes. **89m:28029**
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Volný, Dalibor Martingale decompositions of stationary processes. **89d:60053**
— Approximation of stationary processes and the central limit problem. **89d:60054**
— Counterexamples to the central limit problem for stationary dependent random variables. **89m:60059**
Wang, Ding Cheng Complete convergence of sums of stationary sequences of φ-mixing random variables. (Chinese. English summary) **89a:60068**
Zuparov, T. M. The rate of convergence in the central limit theorem for stationary processes satisfying the uniform strong mixing condition. (Russian) (Not in MR)

60G12 General second-order processes

Chang, Derek K. (*with* Rao, M. M.) Special representations of weakly harmonizable processes. **89m:60087**
Elishakoff, I. Correlation and spectral analysis—a brief outline. **89i:60079**
Ivković, Zoran A. Nonlinear time-domain analysis of Gaussian process, general case. **89d:60070**
— Nonlinear time-domain analysis of Gaussian processes. **89c:60055**
Joyeux, Roselyne Slowly changing processes and harmonizability. **89b:60100**
Kakihara, Yûichirô Series representations and Karhunen processes. **89g:60137**
— A note on bounded and continuous processes. **89j:60056**
Kamolov, A. I. *see* **Mirzakhmedov, M. A., 89f:60040**
Maccone, Claudio The Karhunen-Loève expansion of the zero-mean square process of a time-rescaled Gaussian process. (Italian summary) **89g:60138**
Michálek, Jiří Random sequences with normal covariances. **89g:60139**
— Normal covariances. **89b:60101**
— Linear transformations of locally stationary processes. (Russian and Czech summaries) **89m:60088**
Mirzakhmedov, M. A. (*with* Kamolov, A. I.) Asymptotically best approximations of random processes and fields. (Russian) **89f:60040**
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Gaposhkin, V. F. On the connection between the ergodicity of a continuous-time stationary process and a quantized process. **89k:60050**
Ivković, Zoran A. (*with* Peruničić, P. M.) Transformation of a continuous Gaussian process by rarefying its innovation process. **89m:60093**
Makagon, A. (*with* Salehi, H.) Spectral dilation of operator-valued measures and its application to infinite-dimensional harmonizable processes. **89a:60019**
Maruyama, Gisiro Gaussian limit theorems for Wiener functionals. **89f:60035**
Peruničić, P. M. *see* **Ivković, Zoran A., 89m:60093**
Phan Dang Cau On moving average composition and predictive deconvolution of long-run stationary time series. (Hungarian summary) **89j:62128**
Ponomarev, E. P. Use of variational principles for the synthesis of nonlinear models for Markovian sequences. **89i:60077**
Salehi, H. *see* **Makagon, A., 89a:60019**
Yaglom, A. M. ★ Correlation theory of stationary and related random functions. Vol. I. **89a:60105**
— ★ Correlation theory of stationary and related random functions. Vol. II. **89a:60106**

60G15 Gaussian processes

Bass, R. F. Probability estimates for multiparameter Brownian processes. **89b:60103**
Berman, Simeon M. Spectral conditions for local nondeterminism. **89m:60089**
Berzin, Corinne (*with* Iribarren, Ileana) Estimation de la matrice des moments spectraux d'ordre 2 d'un champ aléatoire gaussien à l'aide des courbes de niveau. (English summary) [Estimation of the second-order spectral moments matrix of a Gaussian random field based on the level curves] **89m:60090**
Bobkov, S. G. Upper functions and oscillating Gaussian processes. **89e:60083**
Bourgain, J. Almost sure convergence and bounded entropy. **89k:60052**
Breitung, Karl Asymptotic crossing rates for stationary Gaussian vector processes. **89h:60061**
Bryc, Włodzimierz Trajectories of Gaussian processes and interpolation of Banach spaces. **89b:60104**
Buldygin, V. V. (*with* Kozachenko, Yu. V.) Sub-Gaussian random vectors and processes. **89c:60056**
— *see also* **Kozachenko, Yu. V., 89a:60109**
Cambanis, Stamatis Random filters which preserve the stability of random inputs. **89k:60053**
Carmichael, J.-P. (*with* Massé, J.-C.; Theodorescu, R.) Multivariate reciprocal stationary Gaussian processes. **89f:60041**
— (*with* Massé, J.-C.; Theodorescu, R.) Representations for multivariate reciprocal Gaussian processes. **89d:60071**
Durbin, James Correction: "The first passage density of a continuous Gaussian process to a general boundary" [J. Appl. Probab. 22 (1985), no. 1, 99–122; MR 86h:60083]. **89i:60080**
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— Continuity properties of Gaussian stochastic processes indexed by a local field. **89e:60084**
— The maximum distribution of a Gaussian stochastic process indexed by a local field. **89m:60091**
Fernique, X. Oscillations de fonctions aléatoires gaussiennes à valeurs vectorielles. [Oscillations of Gaussian vector-valued functions] **89e:60085**
Gordon, Yehoram Gaussian processes and almost spherical sections of convex bodies. **89a:60107**
Hida, Takeyuki (*with* Saito, Kimiaki) White noise analysis and the Levy Laplacian. **89m:60092**
Inoue, Kazuyuki Conjugate sets of Gaussian random fields on a Hilbert space. **89a:60108**
Iribarren, Ileana *see* **Berzin, Corinne, 89m:60090**
Ivković, Zoran A. Representation of the square integrable functional of the Gaussian process with the discrete spectral type. (Serbo-Croatian summary) **89e:60086**
— (*with* Peruničić, P. M.) Transformation of a continuous Gaussian process by rarefying its innovation process. **89m:60093**
Kozachenko, Yu. V. (*with* Buldygin, V. V.) Lévy-Baxter type theorems and strong sub-Gaussian random processes. **89a:60109**
— *see also* **Buldygin, V. V., 89c:60056; Zelepugina, I. N., 89d:60073** *and* **89i:60083**
Krener, Arthur J. Realizations of reciprocal processes. **89i:60081**
Langley, R. S. A first passage approximation for normal stationary random processes. **89a:60110**
Le Breton, Alain Représentation ARMA d'un processus gaussien à temps continu stationnaire de densité spectrale rationnelle. (English summary) [ARMA representation of a continuous-time stationary Gaussian process with rational spectral density] **89j:60057**
Leonenko, N. N. On the accuracy of the normal approximation of functionals of strongly correlated Gaussian random fields. **89e:60087**
Massé, J.-C. *see* **Carmichael, J.-P.; et al., 89d:60071** *and* **89f:60041**
Mazmanishvili, A. S. *see* **Virchenko, Yu. P., 89b:60107**
Mitoma, Itaru Generalized Ornstein-Uhlenbeck process having a characteristic operator with polynomial coefficients. **89c:60058**
Mountford, T. S. A relation between Hausdorff dimension and a condition on time sets for the image by the Brownian sheet to possess interior points. **89m:60094**
Nualart, D. (*with* Vives, Josep) Continuité absolue de la loi du maximum d'un processus continu. (English summary) [Absolute continuity of the law of the maximum of a continuous process] **89i:60082**
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Piterbarg, V. I. ★ Лекции по теории гауссовских процессов. (Russian) [Lectures on the theory of Gaussian processes] **89j:60058**
Plekhanov, V. Sh. *see* **Tëskin, O. I., 89g:60144**
Potthoff, J. Littlewood-Paley theory on Gaussian spaces. **89d:60072**
Richter, Matthias Verteilungsfunktion quadratischer Funktionale periodischer Gaußprozesse. [Distribution function of quadratic functionals of periodic Gaussian processes] **89g:60140**
Rudzkis, R. On the probability of large excursion of a nonstationary Gaussian process. **89a:60111**
— Probability density of a large excursion of a Gaussian random process. II. (Russian. English and Lithuanian summaries) **89b:60105**

Ruiz de Chávez, J. Espaces de Fock pour les processus de Wiener et de Poisson. [Fock spaces for Wiener and Poisson processes] **89h:60062**

Rybasov, K. V. The asymptotic normality of a functional of a homogeneous and isotropic Gaussian random field. (Russian) **89e:60088**

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Samorodnitsky, Gennady Continuity of Gaussian processes. **89g:60141**

Solev, V. N. A condition for the mutual absolute continuity of two Gaussian measures that correspond to a stationary process, and the asymptotic behavior of the reproducing kernel. (Russian. English summary) **89g:60142**

Talagrand, Michel Regularity of Gaussian processes. **89b:60106**

— Small tails for the supremum of a Gaussian process. (French summary) **89g:60143**

Tēskin, O. I. (*with* Plekhanov, V. Sh.) Prediction of confidence limits for the probability of nonexceedance of an admissible level by a stochastic process. **89g:60144**

Theodorescu, R. *see* **Carmichael, J.-P.; et al., 89d:60071** *and* **89f:60041**

Virchenko, Yu. P. (*with* Mazmanishvili, A. S.) Unimodality of a class of distributions connected with a complex Ornstein-Uhlenbeck process. (Russian. English summary) **89b:60107**

Vives, Josep *see* **Nualart, D., 89i:60082**

Weber, Michel Jean Georges Stochastic processes with value in exponential type Orlicz spaces. **89k:60054**

Wschebor, Mario A note on the behaviour of random lengths for high levels. (Spanish summary) **89b:60108**

Zelepugina, I. N. (*with* Kozachenko, Yu. V.) Estimates for the accuracy of the modeling of random fields in the spaces L_p, $p > 1$. (Russian) **89i:60083**

— (*with* Kozachenko, Yu. V.) Rate of convergence of Karhunen-Loève expansions of Gaussian random processes. (Russian) **89d:60073**

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Akashi, Shigeo Operator theoretical treatments of ε-entropy of a Gaussian process per unit time. **89k:82018**

Azaïs, J.-M. Conditions pour la convergence du nombre de franchissements vers le temps local. Application aux processus gaussiens et stables. (English summary) [Conditions for convergence of the numbers of crossings to the local time. Application to stable Gaussian processes] **89h:60063**

Barsov, S. S. (*with* Ul′yanov, V. V.) The difference of Gaussian measures. (Russian) **89g:60007**

Beckner, William A generalized Poincaré inequality for Gaussian measures. **89m:42027**

Bentkus, Vidmantas-Kastytis Jurgio (*with* Liubinskas, K.) Rate of convergence in the invariance principle in Banach spaces. (Russian. English and Lithuanian summaries) **89c:60012**

Berzin, Corinne Approximation du temps local des champs aléatoires gaussiens stationnaires par régularisation des trajectoires. (English summary) [Smoothing of paths and approximation of local time of stationary Gaussian fields] **89a:60131**

Bobrik, R. V. Mean-square stability of solutions of a system of linear differential equations with Gaussian coefficients. (Russian) **89m:93088**

Bojdecki, Tomasz (*with* Gorostiza, Luis G.) Inhomogeneous infinite-dimensional Langevin equations. **89b:60111**

Brockwell, Peter J. (*with* Davis, Richard Alan) Simple consistent estimation of the coefficients of a linear filter. **89k:62120**

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— (*with* Solntsev, S. A.) Strong laws of large numbers and the continuity of Gaussian processes. (Russian) **89f:60034**

Burke, Murray D. (*with* Gombay, Edit) On goodness-of-fit and the bootstrap. **89f:62043**

Byczkowski, T. RKHS for Gaussian measures on metric vector spaces. (Russian summary) **89c:46061**

Davis, Richard Alan *see* **Brockwell, Peter J., 89k:62120**

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Durbin, James A reconciliation of two different expressions for the first-passage density of Brownian motion to a curved boundary. **89j:60113**

Ebrahimi, Nader (*with* Ramalingam, T.) On the dependence structure of hitting times of univariate processes. **89e:60175**

Elizarov, A. I. Moments of the number of stationary points of a homogeneous Gaussian field. **89i:60105**

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Goodman, Victor Characteristics of normal samples. **89h:60011**

Gorostiza, Luis G. The demographic variation process of branching random fields. **89f:60054**

— *see also* **Bojdecki, Tomasz, 89b:60111**

Goryainov, V. B. Theorems of Lévy-Baxter type for elliptic stochastic equations. **89k:60056**

Haiman, George Almost sure asymptotic behavior of the record and record time sequences of a stationary Gaussian process. **89c:60053**

Hida, Takeyuki A note on generalized Gaussian random fields. **89m:60097**

Hüsler, Jürg (*with* Schüpbach, Michel) Limit results for maxima in nonstationary multivariate Gaussian sequences. **89e:60046**

Iscoe, I. (*with* McDonald, David R.) Large deviations for l^2-valued Ornstein-Uhlenbeck processes. **89m:60136**

Ivković, Zoran A. Nonlinear time-domain analysis of Gaussian process, general case. **89d:60070**

Kahane, J.-P. Un modèle de chaos multiplicatif. [A model of multiplicative chaos] **89k:60066**

Kharazishvili, A. B. *see* **Buldygin, V. V., 89b:52019**

Kotelenez, Peter High density limit theorems for nonlinear chemical reactions with diffusion. **89g:60122**

Lawniczak, Anna T. Large deviations for Gaussian stochastic processes with sample paths in Orlicz spaces. **89i:60064**

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Ledoux, M. Inégalités isopérimétriques et calcul stochastique. [Isoperimetric inequalities and stochastic calculus] **89j:60071**

— (*with* Talagrand, Michel) Characterization of the law of the iterated logarithm in Banach spaces. **89i:60016**

Liese, Friedrich (*with* Vajda, Igor) ★ Convex statistical distances. **89g:62006**

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Louchard, G. Random walks, Gaussian processes and list structures. **89j:68068**

Łuczka, J. A stochastic process driven by the quadratic Ornstein-Uhlenbeck noise: generator, propagators and all that. **89m:60137**

Maccone, Claudio The Karhunen-Loève expansion of the zero-mean square process of a time-rescaled Gaussian process. (Italian summary) **89g:60138**

Malevich, T. L. (*with* Volodina, L. N.) Conditions for the finiteness of the moments of the number of zeros of a vector-valued Gaussian field. **89i:60107**

Marco, Virgil R. *see* **Young, Dean M.; et al., 89k:62021**

Marcus, Michael B. (*with* Talagrand, Michel) Chevet's theorem for stable processes. II. **89g:60014**

Mardia, K. V. Multidimensional multivariate Gaussian Markov random fields with application to image processing. **89h:60082**

Mason, David M. A strong invariance theorem for the tail empirical process. (French summary) **89m:60076**

McDonald, David R. *see* **Iscoe, I., 89m:60136**

Mikosch, Thomas On the law of the iterated logarithm for quadratic forms in independent Gaussian variables. **89d:60058**

Molchan, G. M. Multiparametric Brownian motion on symmetric spaces. **89a:60132**

— Gaussian quasi-Markov processes with stationary increments. (Russian) **89c:60085**

Nosko, V. P. Asymptotic distributions of the characteristics of high-level excursions of a homogeneous Gaussian random field. (Russian) **89h:60084**

Pereverzev, E. S. ★ Случайные процессы в параметрических моделях надежности. (Russian) [Random processes in parametric reliability models] **89b:60202**

Pikersgil′, E. A. (*with* Piterbarg, V. I.) An estimate for the rate of convergence in the Poisson limit theorem for large excursions of a stationary Gaussian process. (Russian) **89e:60054**

— A limit theorem for the number of crossings of a curvilinear level by a stationary Gaussian process. (Russian) **89f:60039**

— (*with* Piterbarg, V. I.) On the problem of an estimate for the rate of convergence in a Poisson limit theorem for large excursions of a stationary Gaussian process. (Russian) **89j:60040**

Piterbarg, V. I. *see* **Pikersgil′, E. A., 89e:60054** *and* **89j:60040**

Ramalingam, T. *see* **Ebrahimi, Nader, 89e:60175**

Rootzén, Holger *see* **Leadbetter, M. R., 89b:60098**

Rychlik, Igor Rain-flow-cycle distribution for ergodic load processes. **89e:73036**

Ryzhov, Yu. M. A new limit theorem for Gaussian random processes possessing the Baxter property. (Russian) **89i:60058**

— Limit theorems for random functions constructed from quadratic forms of Gaussian random variables. **89g:60082**

Schüpbach, Michel *see* **Hüsler, Jürg, 89e:60046**

Seaman, John W., Jr. *see* **Young, Dean M.; et al., 89k:62021**

Si Si A note on Lévy's Brownian motion. **89a:60193**

Solntsev, S. A. *see* **Buldygin, V. V., 89f:60034**

Talagrand, Michel The structure of sign-invariant GB-sets and of certain Gaussian measures. **89c:60059**

— *see also* **Marcus, Michael B., 89g:60014** *and* **Ledoux, M., 89i:60016**

Thouvenot, Jean-Paul The metrical structure of some Gaussian processes. **89m:28029**

Tsertsvadze, K. A. The information operator and asymptotic behavior of a Toeplitz determinant. (Russian. English summary) **89k:60059**

Turner, Danny W. *see* **Young, Dean M.; et al., 89k:62021**

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Vajda, Igor *see* **Liese, Friedrich, 89g:62006**

Velikoivanenko, A. I. Local properties of sample functions of Pólya random fields. **89a:60119**

Volodina, L. N. *see* **Malevich, T. L., 89i:60107**

Weinryb, Sophie (*with* Yor, Marc) Le mouvement brownien de Lévy indexé par $\mathbf{R}^3$ comme limite centrale de temps locaux d'intersection. [The $\mathbf{R}^3$-indexed Lévy Brownian motion as the central limit of local intersection times] **89j:60117**

Yang, Wei-Shih The generators of a Gaussian wave associated with the free Markov field. **89h:60085**

Yang, Xin Jian Mutual singularity of generalized stationary Gaussian fields. (Chinese) **89e:60082**

Yor, Marc *see* **Weinryb, Sophie, 89j:60117**

Young, Dean M. (*with* Turner, Danny W.; Seaman, John W., Jr.; Marco, Virgil R.) Probability inequalities for continuous unimodal random variables with finite support. **89k:62021**

Zayats, V. V. An estimate for the correlation function of a Gaussian random process. (Russian) **89e:60061**

60G17 Sample path properties

Azaïs, J.-M. Conditions pour la convergence du nombre de franchissements vers le temps local. Application aux processus gaussiens et stables. (English summary) [Conditions for convergence of the numbers of crossings to the local time. Application to stable Gaussian processes] **89h:60063**

Berman, Simeon M. The modulator of the local time. **89d:60074**

— Sojourns and extremes of a stochastic process defined as a random linear combination of arbitrary functions. **89d:60075**

Bertoin, Jean Une extension d'une inégalité de Burkholder, Davis, Gundy pour les processus à α-variation bornée et applications. (English summary) [An extension of a Burkholder-Davis-Gundy inequality for processes with bounded α-variation; applications] **89m:60095**

Burdzy, Krzysztof Harmonic measure on 3-dimensional Brownian paths. **89i:60084**

Csáki, Endre (*with* Földes, Antónia; Kasahara, Yuji) Around Yor's theorem on the Brownian sheet and local time. **89i:60085**

Dawson, D. A. (*with* Iscoe, I.; Perkins, Edwin A.) Sample path properties of the support process of super-Brownian motion. **89a:60112**

Ditlevsen, O. (*with* Lindgren, G.) Empty envelope excursions in stationary Gaussian processes. **89d:60076**

Földes, Antónia *see* **Csáki, Endre; et al., 89i:60085**

Helmes, K. On Levy's area process. **89b:60109**

Iscoe, I. *see* **Dawson, D. A.; et al., 89a:60112**

Kasahara, Yuji *see* **Csáki, Endre; et al., 89i:60085**

Khimenko, V. I. *see* **Tikhonov, V. I., 89a:60118**

Lindgren, G. *see* **Ditlevsen, O., 89d:60076**

Mishra, M. N. *see* **Nayak, Chanchala; et al., 89a:60113**

Monrad, Ditlev (*with* Pitt, L. D.) Local nondeterminism and Hausdorff dimension. **89d:60077**

Nayak, Chanchala (*with* Pattanayak, Swadheenananda; Mishra, M. N.) Random Fourier-Stieltjes series associated with stable process. **89a:60113**

Nolan, John P. Path properties of index-β stable fields. **89i:60086**

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Radchenko, A. N. Conditions for the absence of singular points on the level set of a random field. **89b:60110**

Ragimov, F. G. Tangent approximation for the density of the time of first crossing of a stable process over a nonlinear boundary. I. (Russian. English and Azerbaijani summaries) **89m:60096**

Rajput, Balram S. (*with* Rama-Murthy, Kavi) On the spectral representations of complex semistable and other infinitely divisible stochastic processes. **89e:60089**

Rama-Murthy, Kavi *see* **Rajput, Balram S., 89e:60089**

Rychlik, Igor Regression approximations of wavelength and amplitude distributions. **89a:60114**

— Joint distribution of successive zero crossing distances for stationary Gaussian processes. **89a:60115**

— A note on Durbin's formula for the first-passage density. **89a:60116**

Schmuland, B. Regularity of l^2-valued Ornstein-Uhlenbeck processes. **89a:60117**

Shaked, M. (*with* Shanthikumar, J. George) Temporal stochastic convexity and concavity. **89h:60064**

Shanthikumar, J. George *see* **Shaked, M., 89h:60064**

Talagrand, Michel The structure of sign-invariant **GB**-sets and of certain Gaussian measures. **89c:60059**

Tikhonov, V. I. (*with* Khimenko, V. I.) ★ Выбросы траекторий случайных процессов. (Russian) [Excursions of the trajectories of random processes] **89a:60118**

Velikoivanenko, A. I. Local properties of sample functions of Pólya random fields. **89a:60119**

Items with secondary classifications in 60G17

Baldi, Paolo (*with* Chaleyat-Maurel, M.) Sur l'équivalent du module de continuité des processus de diffusion. [On the equivalent of the modulus of continuity of diffusion processes] **89e:60147**

Balkema, A. A. (*with* de Haan, L.) Almost sure continuity of stable moving average processes with index less than one. **89h:60117**

Barlow, M. T. Necessary and sufficient conditions for the continuity of local time of Lévy processes. **89k:60114**

Berzin, Corinne Approximation du temps local des champs aléatoires gaussiens stationnaires par régularisation des trajectoires. (English summary) [Smoothing of paths and approximation of local time of stationary Gaussian fields] **89a:60131**

Biane, Ph. (*with* Yor, Marc) Quelques précisions sur le méandre brownien. (English summary) [Some refinements of results on the Brownian meander] **89i:60156**

Blei, Ron C. (*with* Kahane, J.-P.) A computation of the Littlewood exponent of stochastic processes. **89a:60138**

Bryc, Włodzimierz Trajectories of Gaussian processes and interpolation of Banach spaces. **89b:60104**

Burdzy, Krzysztof ★ Multidimensional Brownian excursions and potential theory. **89d:60146**

Chaleyat-Maurel, M. *see* **Baldi, Paolo, 89e:60147**

Chen, Gui Jing (*with* Hong, Sheng Yan; Hu, Shu He) Some convergence problems about the increments of a Wiener process. **89b:60192**

Cranston, M. On the means of approach to the boundary of Brownian motion. **89a:60175**

Csáki, Endre (*with* Földes, Antónia) On the length of the longest flat interval. **89g:60234**

Davis, Burgess (*with* Salisbury, Thomas S.) Connecting Brownian paths. **89j:60111**

Drisch, Thomas (*with* Sendler, Wolfgang) A remark on realizations of stochastic processes. **89g:60129**

Einmahl, John H. J. (*with* Mason, David M.) Laws of the iterated logarithm in the tails for weighted uniform empirical processes. **89c:60036**

Evans, Steven N. Sample path properties of Gaussian stochastic processes indexed by a local field. **89c:60057**

— Continuity properties of Gaussian stochastic processes indexed by a local field. **89e:60084**

Földes, Antónia *see* **Csáki, Endre, 89g:60234**

Grill, K. On the last zero of a Wiener process. **89f:60096**

de Haan, L. *see* **Balkema, A. A., 89h:60117**

Haase, H. Packing measures on Euclidean spaces. **89e:28009**

Hong, Sheng Yan *see* **Chen, Gui Jing; et al., 89b:60192**

Hu, Shu He *see* **Chen, Gui Jing; et al., 89b:60192**

Iscoe, I. (*with* McDonald, David R.) Large deviations for l^2-valued Ornstein-Uhlenbeck processes. **89m:60136**

Juknevičienė, D. The central limit theorem in the space $C(S)$ and majorizing measures. (Russian. English and Lithuanian summaries) **89a:60025**

Kahane, J.-P. *see* **Blei, Ron C., 89a:60138**

Leadbetter, M. R. (*with* Rootzén, Holger) Extremal theory for stochastic processes. **89b:60098**

Le Gall, J.-F. Mouvement brownien, cônes et processus stables. (English summary) [Brownian motion, cones and stable processes] **89b:60193**

Li, Xin Chun *see* **Zhuang, Xing Wu, 89e:60160**

Malevich, T. L. (*with* Volodina, L. N.) Conditions for the finiteness of the moments of the number of zeros of a vector-valued Gaussian field. **89i:60107**

Mason, David M. *see* **Einmahl, John H. J., 89c:60036**

McDonald, David R. *see* **Iscoe, I., 89m:60136**

Mijnheer, Joop A functional form for the lower Lipschitz condition for the stable subordinator. **89f:60082**

Mountford, T. S. An extension of a result of Kahane using Brownian local times of intersection. **89m:60197**

— A relation between Hausdorff dimension and a condition on time sets for the image by the Brownian sheet to possess interior points. **89m:60094**

Piterbarg, V. I. ★ Лекции по теории гауссовских процессов. (Russian) [Lectures on the theory of Gaussian processes] **89j:60058**

Rootzén, Holger *see* **Leadbetter, M. R., 89b:60098**

Rosen, Jay Continuity and singularity of the intersection local time of stable processes in $\mathbf{R}^2$. **89a:60173**

Rudzkis, R. On the probability of large excursion of a nonstationary Gaussian process. **89a:60111**

Rusakov, A. A. (*with* Seleznev, O. V.) Weak convergence of functionals of random processes with continuously differentiable paths. (Russian) **89a:60012**

Russo, Ralph P. On the last exit time and the number of exits of partial sums over a moving boundary. **89e:60070**

Salisbury, Thomas S. *see* **Davis, Burgess, 89j:60111**

Seleznev, O. V. *see* **Rusakov, A. A., 89a:60012**

Sendler, Wolfgang *see* **Drisch, Thomas, 89g:60129**

Shimura, Michio Meandering points of two-dimensional Brownian motion. **89h:60141**

Stadtmüller, Ulrich Kernel approximations of a Wiener process. **89b:60195**

Talagrand, Michel Small tails for the supremum of a Gaussian process. (French summary) **89g:60143**

Tongring, Nils Which sets contain multiple points of Brownian motion? **89a:60194**

Volodina, L. N. *see* **Malevich, T. L., 89i:60107**

Weber, Michel Jean Georges Stochastic processes with value in exponential type Orlicz spaces. **89k:60054**

Wschebor, Mario A note on the behaviour of random lengths for high levels. (Spanish summary) **89b:60108**

Yor, Marc *see* **Biane, Ph., 89i:60156**

Zhuang, Xing Wu (*with* Li, Xin Chun) On the continuity of sample functions of generalized Brownian sheets. (Chinese. English summary) **89e:60160**

Zinchenko, N. M. Asymptotics of the increments of stable stochastic processes with jumps of the same sign. (Russian) **89c:60042**

60G20 Generalized stochastic processes

Albeverio, S. (*with* Høegh-Krohn, R.; Holden, Helge) Stochastic multiplicative measures, generalized Markov semigroups, and group-valued stochastic processes and fields. **89k:60055**

Bojdecki, Tomasz (*with* Gorostiza, Luis G.) Inhomogeneous infinite-dimensional Langevin equations. **89b:60111**

Christov, Christo I. Poisson-Wiener expansion in nonlinear stochastic systems. (Russian summary) (Not in MR)

Gorostiza, Luis G. *see* **Bojdecki, Tomasz, 89b:60111**

Goryainov, V. B. Theorems of Lévy-Baxter type for elliptic stochastic equations. **89k:60056**

Hida, Takeyuki A note on generalized Gaussian random fields. **89m:60097**

Høegh-Krohn, R. *see* **Albeverio, S.; et al., 89k:60055**

Holden, Helge *see* **Albeverio, S.; et al., 89k:60055**

Saito, Kimiaki Itô's formula and Lévy's Laplacian. **89f:60042**

Schaumlöffel, Kay-Uwe White noise in space and time and the cylindrical Wiener process. **89g:60145**

Items with secondary classifications in 60G20

Christensen, S. K. (*with* Kallianpur, G.) Stochastic differential equations for neuronal behavior. **89c:60070**

Dinculeanu, Nicolae Vector-valued stochastic processes. I. Vector measures and vector-valued stochastic processes with finite variation. **89h:60077a**

— Vector-valued stochastic processes. II. A Radon-Nikodým theorem for vector-valued processes with finite variation. **89h:60077b**

Hida, Takeyuki Generalized Gaussian measures. **89h:60137**

Kallianpur, G. *see* **Christensen, S. K., 89c:60070**

Mazziotto, G. (*with* Millet, Annie) Points, lignes et systèmes d'arrêt flous et problème d'arrêt optimal. [Randomized points, lines and stopping systems and the problem of optimal stopping] **89d:60082**

Millet, Annie *see* **Mazziotto, G., 89d:60082**

Rogers, Alice Fermionic path integration and Grassmann Brownian motion. **89g:28018**

60G25 Prediction theory [see also 62M20]

Arimoto, Akio Approximation of the finite prediction for a weakly stationary process. **89b:60112**

Cambanis, Stamatis (*with* Hardin, Clyde D., Jr.; Weron, Aleksander) Innovations and Wold decompositions of stable sequences. **89g:60146**

Elishakoff, I. Random vibration of multi-degree-of-freedom systems with associated effect of cross-correlations. **89j:60059**

Fedorov, S. I. *see* **Lyashenko, N. N.; et al., 89i:60088**

Gyires, B. The extreme linear predictions of the matrix-valued stationary stochastic processes. **89g:60147**

Hardin, Clyde D., Jr. *see* **Cambanis, Stamatis; et al., 89g:60146**

Ionescu, Valentin (*with* Suciu, Ion) The Wiener filter for stationary processes having parameter periodicities in correlations. (Romanian. English summary) **89b:60113**

Ismatkhodzhaev, S. K. Asymptotic theorems on the variance of the average of stationary random processes. (Russian) **89k:60057**

Kondakov, V. M. (*with* Sapozhnikov, P. N.) Sufficient statistics in problems of extrapolation of stationary sequences. **89h:60065**

Kõrezlioğlu, Hayri (*with* Loubaton, Ph.) Prediction and spectral decomposition of wide sense stationary processes on $\mathbf{Z}^2$. (French summary) **89i:60087**

Loubaton, Ph. *see* **Kõrezlioğlu, Hayri, 89i:60087**

Lutikov, V. Z. Prediction of random processes. (Russian) (*see* **89g:00008**)

Lyashenko, N. N. (*with* Nikulin, M. S.; Fedorov, S. I.) A prediction problem for random processes taking into account the duration of calculations. (Russian) **89i:60088**

Miamee, A. G. (*with* Pourahmadi, Mohsen) Wold decomposition, prediction and parameterization of stationary processes with infinite variance. **89h:60066**

Nakamura, Yoshimasa Fractional transformation group induced by QR factorization and linear prediction problem. **89k:60058**

Nikulin, M. S. *see* **Lyashenko, N. N.; et al., 89i:60088**

Pourahmadi, Mohsen *see* **Miamee, A. G., 89h:60066**

Rozanov, Yu. A. Some aspects of prediction theory. (Russian) **89g:60148**

Sapozhnikov, P. N. *see* **Kondakov, V. M., 89h:60065**

Stein, Michael L. An application of the theory of equivalence of Gaussian measures to a prediction problem. **89i:60089**

Suciu, Ion *see* **Ionescu, Valentin, 89b:60113**

Tsertsvadze, K. A. The information operator and asymptotic behavior of a Toeplitz determinant. (Russian. English summary) **89k:60059**

Weron, Aleksander *see* **Cambanis, Stamatis; et al., 89g:60146**

Xu, Ye Ji Linear prediction theory of a homogeneous random field with discrete parameters. (Chinese. English summary) **89j:60060**

Items with secondary classifications in 60G25

Antonelli, P. L. (*with* Bradbury, R.; Buck, Rosalie Giovanna; Reichelt, R.; Elliott, Robert J.) Nonlinear prediction of crown-of-thorns outbreaks on the Great Barrier Reef. **89m:92041**

Battaglia, Francesco (*with* Bhansali, R. J.) Estimation of the interpolation error variance and an index of linear determinism. **89a:62205**

Bhansali, R. J. *see* **Battaglia, Francesco, 89a:62205**

Bradbury, R. *see* **Antonelli, P. L.; et al., 89m:92041**

Buck, Rosalie Giovanna *see* **Antonelli, P. L.; et al., 89m:92041**

Butzer, Paul L. (*with* Splettstösser, W.; Stens, R. L.) The sampling theorem and linear prediction in signal analysis. **89b:94006**

Elliott, Robert J. *see* **Antonelli, P. L.; et al., 89m:92041**

Fritzsche, Bernd (*with* Kirstein, Bernd) A Schur parametrization of nonnegative Hermitian and contractive block matrices and the corresponding maximum entropy problems. **89m:15015**

Frolov, F. F. Boundary value problems for systems of stochastic partial differential equations. **89k:60082**

Gouriéroux, Christian Une approche géométrique des processus ARMA. (English summary) [A geometrical approach to ARMA processes] **89j:62120**

Hallin, Marc Performances asymptotiques des modèles MA dans la prévision des processus q-dépendants non stationnaires. [Asymptotic behavior of MA models in the forecasting of nonstationary q-dependent processes] **89h:62151**

Horák, Karel (*with* Müller, Vladimír; Vrbová, Pavla) A remark concerning uniqueness of the Wold decomposition of finite-dimensional stationary processes. (Russian and Czech summaries) **89c:60054**

Kirstein, Bernd *see* **Fritzsche, Bernd, 89m:15015**

Miamee, A. G. On the Wiener-Masani algorithm for finding the generating function of multivariate stochastic processes. **89m:60086**

Müller, Vladimír *see* **Horák, Karel; et al., 89c:60054**

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Stens, R. L. *see* **Butzer, Paul L.; et al., 89b:94006**

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Wang, Zi Kun[1] Transition probabilities and prediction for two-parameter Ornstein-Uhlenbeck processes. **89g:60175**

60G30 Continuity and singularity of induced measures

Borell, Christer Real polynomial chaos and absolute continuity. **89d:60078**

He, Sheng Wu (*with* Wang, Jia Gang) On contiguity, entire separation and convergence in variation of sequences of measures induced by stochastic processes. (Chinese. English summary) **89j:60061**

Kabanov, Yu. M. Contiguity of distributions of multivariate point processes. **89d:60079**

Koval′chik, I. M. A nonlinear transformation of Gaussian measures. (Russian) **89f:60043**

Pflug, Georg Ch. Derivatives of probability measures: concepts and applications to the optimization of stochastic systems. **89j:60062**

Sokhadze, G. A. Equivalence of measures corresponding to the solutions of some problems of mathematical physics with Gaussian random perturbation. (Russian) **89i:60090**

Wang, Jia Gang *see* **He, Sheng Wu, 89j:60061**

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Daletskiĭ, Yu. L. (*with* Sokhadze, G. A.) Absolute continuity of smooth measures. **89f:28036**

Davydov, Yu. A. A remark on the absolute continuity of the distributions of Gaussian functionals. **89d:60005**

Il′yasov, Ya. Sh. (*with* Komech, A. I.) Girsanov's theorem and ergodic properties of statistical solutions of nonlinear parabolic equations. (Russian. English summary) **89g:60193**

Komech, A. I. *see* **Il′yasov, Ya. Sh., 89g:60193**

Ōshima, Yōichi On absolute continuity of two symmetric diffusion processes. **89a:60185**

Sokhadze, G. A. *see* **Daletskiĭ, Yu. L., 89f:28036**

Taylor, Thomas J. On the Wiener semigroup and harmonic analysis on the infinite-dimensional torus. **89f:35193**

Żak, Tomasz Admissible translates for sub-Gaussian measures. **89h:60009**

60G35 Applications (signal detection, filtering, etc.) [see also 62M20, 94Axx]

Chaleyat-Maurel, M. (*with* Michel, Dominique) The support of the law of a filter in C^∞ topology. **89f:60044**

Davis, M. H. A. Nonlinear filtering and stochastic flows. **89h:60067**

Dembo, A. *see* **Zeitouni, O., 89h:60068**

Haussmann, U. G. (*with* Pardoux, É.) A conditionally almost linear filtering problem with non-Gaussian initial condition. **89d:60080**

Heunis, A. J. Nonlinear filtering of rare events with large signal-to-noise ratio. **89g:60149**

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Kallianpur, G. (*with* Karandikar, Rajeeva L.) The filtering problem for infinite-dimensional stochastic processes. **89f:60045**

Karandikar, Rajeeva L. *see* **Kallianpur, G., 89f:60045**

Kikkawa, Sho (*with* Ishida, Masayuki) Number of degrees of freedom, correlation times, and equivalent bandwidths of a random process. **89a:60120**

Michel, Dominique *see* **Chaleyat-Maurel, M., 89f:60044**

Nagorniĭ, V. N. An interpolation representation of random processes. (Ukrainian. Russian summary) **89i:60091**

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Torondzhadze, T. A. Coincidence of σ-algebras in a scheme of partially observable processes of diffusion type. (Russian) **89a:60121**

Tziritas, Georgios G. On the distribution of positive-definite Gaussian quadratic forms. **89a:60122**

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Bahr, Randall K. (*with* Bucklew, James A.) Minimax estimation of continuous time deterministic signals in colored noise. **89i:93104**

Baker, C. R. (*with* Gualtierotti, A. F.) Likelihood ratios and signal detection for non-Gaussian processes. **89d:94017**

Balakrishnan, A. V. On a class of stochastic differential equations which do not satisfy Lipschitz conditions. **89b:60136**

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Bensoussan, A. On some approximation techniques in nonlinear filtering. **89d:93099**

Bouton, Catherine Approximation gaussienne d'algorithmes stochastiques à dynamique markovienne. (English summary) [Gauss approximation of stochastic algorithms with Markov dynamics] **89g:60223**

Brémaud, P. An averaging principle for filtering a jump process with point process observations. **89i:62157**

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Cambanis, Stamatis Random filters which preserve the stability of random inputs. **89k:60053**

Chaleyat-Maurel, M. Continuity in nonlinear filtering. Some different approaches. **89d:93100**

Cohen, Robert A filtering formula for a nonlinear system having a continuous observation, and a discrete observation at random times. **89e:93193**

Dembo, A. *see* **Zeitouni, O., 89g:93100**

Dodunekova, Rositsa Extremal properties of a linear minimax estimate in a stochastic model. (Russian) **89d:62086**

Fadeeva, E. P. Explicit linear filtering formulas when the receivable signal is L-Markovian. (Russian) **89i:93109**

— Linear filtering of a two-dimensional process with stationary components that have a joint quasirational spectral density. (Russian) (Not in MR)

Galickas, Aleksandras Comparative analysis of interpolation models of stationary signals. (Russian. Lithuanian summary) **89k:94009**

Glonti, O. A. Nonlinear filtering of stochastic processes and optimal signal transmission through a feedback channel. **89e:93194**

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— Lectures on linear and nonlinear filtering. **89f:93039**

— Lie algebraic method in filtering and identification. **89g:93098b**

Hopkins, William E., Jr. (*with* Wong, Wing Shing) Implementation issues in product formulas for nonlinear filtering. **89c:93072**

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Koski, T. An asymptotic localization by perturbing operators for partial observation of a stochastic evolution equation. **89i:60126**

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Michálek, Jiří Linear transformations of locally stationary processes. (Russian and Czech summaries) **89m:60088**

Miyahara, Yoshio A theorem of the stability of nonlinear filtering systems. **89d:93102**

Nakonechnyĭ, A. G. (*with* Levoshich, O. L.) Optimal estimates for random vectors from informational criteria. (Russian) **89f:94010**

Ocone, Daniel Application of Wiener space analysis to nonlinear filtering. **89d:60099**

— Existence of densities for statistics in the cubic sensor problem. **89c:93074**

Ohsumi, Akira Linear estimation of random fields with second-order increments and its application. **89m:60120**

Osborne, M. R. (*with* Prvan, Tania) Smoothness and conditioning in generalised smoothing spline calculations. **89h:65023**

Pardoux, É. (*with* Savona, C.) Piecewise linear filtering. **89c:93075**

Piccioni, M. Convergence of implicit discretization schemes for linear differential equations with application to filtering. **89b:60141**

Pontier, Monique (*with* Szpirglas, J.) Filtering with observations on a Riemannian symmetric space. **89i:93124**

— (*with* Szpirglas, J.) Uniqueness of the solutions of the filtering equation with observations on a Riemannian symmetric space. **89i:58158**

— (*with* Szpirglas, J.) Filtering with observations on a Riemannian symmetric space. **89e:93198**

— Approximation d'un filtre avec observation sur une variété compacte. [Approximation of a filter with observations on a compact manifold] **89k:93206**

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Pugachev, V. S. (*with* Sinitsyn, I. N.) ★ Stochastic differential systems. **89b:93003**

Savona, C. Approximate nonlinear filtering for piecewise linear systems. **89j:93122**

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Seo, Jin H. (*with* Mazumdar, Ravi) On the innovations problem for a finite additive white noise approach to nonlinear filtering. **89a:93051**

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(Sinitsyna, I. V.) *see* **Pugachev, V. S., 89b:93003**

Sugisaka, Masanori The design of a Chandrasekhar-type filter via imbedding method. **89e:93188**

Szpirglas, J. *see* **Pontier, Monique, 89e:93198; 89i:58158** *and* **89i:93124**

Taylor, Thomas J. On the small time behavior of the nonlinear estimation problem for finite bandwidth signals. **89g:60195**

Thavaneswaran, A. (*with* Thompson, M. E.) A criterion for filtering in semimartingale models. **89h:93051**

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Zeitouni, O. (*with* Dembo, A.) An existence theorem and some properties of maximum a posteriori estimators of trajectories of diffusions. **89g:93100**

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60G40 Stopping times; optimal stopping problems; gambling theory [see also 62L15]

Barba Escribá, Lourdes Properties of stopping times in the representation of variables. (Spanish. English summary) **89g:60150**

Berry, Donald A. *see* **Fristedt, Bert, 89g:60154**

Blackwell, D. (*with* Ramakrishnan, S.) Stationary plans need not be uniformly adequate for leavable, Borel gambling problems. **89b:60114**

Bruss, F. Thomas Correction: "On an optimal selection problem of Cowan and Zabczyk" [J. Appl. Probab. 24 (1987), no. 4, 918–928; MR 88i:60082]. **89g:60151**

— Invariant record processes and applications to best choice modelling. **89m:60098**

Dalang, Robert C. On infinite perfect graphs and randomized stopping points on the plane. **89i:60092**

— Optimal stopping of two-parameter processes on nonstandard probability spaces. **89m:60099**

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Eidukevičius, R. Existence of an optimal stopping time in an optimal stopping problem for a Markov chain with discounting. (Russian. English and Lithuanian summaries) **89h:60069**

Elton, J. H. Continuity properties of optimal stopping value. **89g:60153**

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Glaz, J. (*with* Johnson, Bruce McK.) Boundary crossing for moving sums. **89b:60115**

Johnson, Bruce McK. *see* **Glaz, J., 89b:60115**

Klass, Michael J. A best possible improvement of Wald's equation. **89g:60155**

Krengel, Ulrich (*with* Sucheston, Louis) Prophet compared to gambler: an inequality for transforms of processes. **89d:60081**

Lanery, E. Solutions bayesiennes sans désintégration. [Bayes solutions without disintegration] **89a:60124**

Mazziotto, G. (*with* Millet, Annie) Points, lignes et systèmes d'arrêt flous et problème d'arrêt optimal. [Randomized points, lines and stopping systems and the problem of optimal stopping] **89d:60082**

Millet, Annie *see* **Mazziotto, G., 89d:60082**

Móri, Tamás F. Hitting a small group of middle ranked candidates in the secretary problem. **89m:60100**

Ohtsubo, Yoshio On Dynkin's stopping problem with a finite constraint. **89d:60083**

Ramakrishnan, S. *see* **Blackwell, D., 89b:60114**

Reeves, Jaxk Halbert (*with* Flack, V. F.) A generalization of the classical secretary problem: dependent arrival sequences. **89d:60084**

Rinott, Yosef (*with* Samuel-Cahn, Ester) Comparisons of optimal stopping values and prophet inequalities for negatively dependent random variables. **89e:60090**

Samuel-Cahn, Ester Prophet inequalities for threshold rules for independent bounded random variables. **89d:60085**

— *see also* **Rinott, Yosef, 89e:60090**

Stadje, W. An optimal k-stopping problem for the Poisson process. **89a:60125**

— An optimal stopping problem with finite horizon for sums of i.i.d. random variables. **89a:60126**

Stettner, L. On ergodic stopping and impulsive control problems for nonuniformly ergodic Markov processes. **89k:60060**

Sucheston, Louis *see* **Krengel, Ulrich, 89d:60081**

Tamaki, Mitsushi Optimal stopping in the parking problem with U-turn. **89h:60070**

Xue, Xing Hong Optimal stopping of stochastic processes continuous parameters. (Chinese) **89b:60116**

Yasuda, Masami On the value for OLA-optimal stopping problem by potential theoretic method. **89i:60093**

Yoshida, Minoru A construction scheme of the minimal dominating supermartingale arising in the discrete parameter optimal stopping problems. **89b:60117**

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Baxter, John Robert (*with* Dal Maso, Gianni; Mosco, U.) Stopping times and Γ-convergence. **89b:35061**

Bielecki, T. (*with* Stettner, L.) On some problems arising in asymptotic analysis of Markov processes with singularly perturbed generators. **89e:60138**

Busemeyer, Jerome R. (*with* Rapoport, Amnon) Psychological models of deferred decision making. **89j:92078**

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Ferenstein, E. Z. (*with* Enns, E. G.) Optimal sequential selection from a known distribution with holding costs. **89m:62096**

Fitzsimmons, P. J. Penetration times and Skorohod stopping. **89k:60109**

Fujisaki, Masatoshi Bellman equation with unbounded coefficients and its applications. **89g:49025**

Hanák, Gábor Stopping rules for stochastic approximation methods. **89f:62068**

Heath, David C. (*with* Kertz, Robert P.) Leaving an interval in limited playing time. **89i:90102**

Hlynka, M. (*with* Sheahan, J. N.) The secretary problem for a random walk. **89g:90231**

Höpfner, Reinhard A remark on stopping times associated with continuous-time ergodic Markov chains and an application to statistical inference in birth-and-death processes. **89c:62136**

Hsü, Shih Hsiung A convergence property of Dubins' representation of distributions. **89i:60158**

Irle, A. On the expectation of the maximum for sums of independent random variables. **89a:60127**

Jacka, S. D. Doob's inequalities revisited: a maximal H^1-embedding. **89j:60054**

Jakubowski, Adam A note on the invariance principle for stationary φ-mixing sequences: tightness via stopping times. **89m:60075**

Kallenberg, Olav Spreading and predictable sampling in exchangeable sequences and processes. **89b:60097**

Keener, Robert A note on the variance of a stopping time. **89f:62067**

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Kurisu, Tadashi On a certain secretary problem with two stops. **89d:90232**

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Mandelbaum, Avi Navigating and stopping multiparameter bandit processes. **89j:62114**

Mazalov, V. V. ★ Игровые моменты остановки. (Russian) [Game-theoretic stopping times] **89a:90156**

Mazziotto, G. (*with* Stettner, L.; Szpirglas, J.; Zabczyk, J.) On impulse control with partial observation. **89i:49009**

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Rapoport, Amnon *see* **Busemeyer, Jerome R., 89j:92078**

Robin, Maurice On some perturbation problems in optimal stopping and impulse control. **89c:93083**

Sheahan, J. N. *see* **Hlynka, M., 89g:90231**

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Song, Shiqui (*with* Yor, Marc) Inégalités pour les processus self-similaires arrêtés à un temps quelconque. [Inequalities for self-similar processes stopped at a random time] **89m:60125**

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Stricker, C. *see* **Pontier, Monique; et al., 89k:60063**

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van der Vecht, D. P. Ultimateness and the Azéma-Yor stopping time. **89e:60158**

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Yor, Marc *see* **Song, Shiqui, 89m:60125**

Zabczyk, J. *see* **Mazziotto, G.; et al., 89i:49009**

60G42 Martingales with discrete parameter

Agbeko, N. K. Some reverse maximal inequalities for supermartingales. **89e:60091**

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— (*with* Ishak, S.) Maximal inequalities for nonnegative supermartingales. **89k:60061**

— A new proof of the right-hand side of the Burkholder-Davis-Gundy inequality. **89g:60156**

Borovskikh, Yu. V. *see* **Korolyuk, V. S., 89h:60071**

Dubins, Lester E. (*with* Schwarz, Gideon) A sharp inequality for sub-martingales and stopping-times. **89m:60101**

Gilat, David On the ratio of the expected maximum of a martingale and the L_p-norm of its last term. **89m:60102**

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Korolyuk, V. S. (*with* Borovskikh, Yu. V.) ★ Мартингальная аппроксимация. (Russian) [Martingale approximation] **89h:60071**

Miyazaki, Yoshie Remark on Chevalier's inequality. **89e:60092**

Mogyoródi, J. *see* **Bassily, N. L.; et al., 89c:60060**

Morrow, Gregory J. A sharp estimate for dyadic martingales with multiple indices. **89e:60093**
Nevzorov, V. B. (*with* Stepanov, A. V.) Records: a martingale approach to finding moments. (Russian) **89m:60103**
Pisier, Gilles (*with* Xu, Quan Hua) The strong p-variation of martingales and orthogonal series. **89d:60086**
Rhee, WanSoo T. (*with* Talagrand, Michel) Martingale inequalities, interpolation and NP-complete problems. **89m:60104**
Saloff-Coste, L. Variations quadratiques conditionnées et transformations de martingales. (English summary) [Conditioned square variations and martingale transforms] **89f:60046**
Satô, Hiroshi[1] Convergence of sum product of a martingale difference sequence. **89c:60061**
Schwarz, Gideon *see* **Dubins, Lester E., 89m:60101**
Stepanov, A. V. *see* **Nevzorov, V. B., 89m:60103**
Talagrand, Michel *see* **Rhee, WanSoo T., 89m:60104**
Xu, Quan Hua *see* **Pisier, Gilles, 89d:60086**

Items with secondary classifications in 60G42

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Bai, Zhi Dong A theorem of Feller revisited. **89m:60069**
Basu, A. K. Uniform and nonuniform estimates in the CLT for Banach valued dependent random variables. **89k:60024**
Bendikov, A. D. (*with* Pavlov, I. V.) L_p spaces with a mixed norm on an infinite Cartesian product of probability spaces. (Russian. English summary) **89i:46030**
Bingham, Michael S. Replacing the martingale assumption in a martingale central limit theorem. **89g:60065**
Bùi Kho'i Đàm On the convergence of amarts in Orlicz spaces. **89g:60163**
Butzer, Paul L. (*with* Kirschfink, Heribert; Schulz, Dietmar) An extension of the Lindeberg-Trotter operator-theoretic approach to limit theorems for dependent random variables. II. Approximation theorems with O-rates, applications to martingale difference arrays. **89g:60068**
Choi, K. P. Some sharp inequalities for martingale transforms. **89b:60132**
Chow, Yuan Shih (*with* Teicher, Henry) ★ Probability theory. **89e:60001**
Fazekas, I. On the convergence of regression type martingale fields. **89j:60063**
Fisher, Evan An upper class law of the iterated logarithm for supermartingales. **89a:60079**
Freniche, Francisco J. Cesàro convergence of martingale difference sequences and the Banach-Saks and Szlenk theorems. **89d:60066**
Gaposhkin, V. F. The law of large numbers for linear autoregression processes. **89g:60106**
Haeusler, Erich On the rate of convergence in the central limit theorem for martingales with discrete and continuous time. **89a:60060**
— (*with* Joos, Konrad) A nonuniform bound on the rate of convergence in the martingale central limit theorem. **89h:60038**
Joos, Konrad *see* **Haeusler, Erich, 89h:60038**
Kirschfink, Heribert *see* **Butzer, Paul L.; et al., 89g:60068**
Krajka, A. On the limit behaviour of H-valued martingales with random indices. (Russian summary) **89j:60010**
Letta, Giorgio An example of the application of the "general" theory of processes to a martingale representation problem. (Italian. English and French summaries) **89d:60068**
Müller, Paul F. X. On the span of some three valued martingale difference sequences in L^p $(1 < p < \infty)$ and H^1. **89c:46045**
Nakhapetyan, B. S. (*with* Petrosyan, A. N.) Central limit theorem for martingales associated with sequences of increasing sets. (Russian. Armenian summary) **89d:60050**
Paditz, Ludwig The mean central limit theorem for martingale differences. **89m:60055**
— (*with* Šarachmetov, Šaturgun) A mean central limit theorem for multiplicative systems. **89k:60034**
Parthasarathy, Kalyanapuram Rangachari A unified approach to classical, bosonic and fermionic Brownian motions. **89m:60129**
Pavlov, I. V. *see* **Bendikov, A. D., 89i:46030**
Petrosyan, A. N. *see* **Nakhapetyan, B. S., 89d:60050**
Pratelli, Maurizio Martingales and Banach space geometry. (Italian. English summary) **89e:46020**
Račkauskas, A. Rate of convergence in a martingale central limit theorem in the space $C(S)$. (Russian. English and Lithuanian summaries) **89c:60051**
Rhee, WanSoo T. (*with* Talagrand, Michel) A sharp deviation inequality for the stochastic traveling salesman problem. **89m:60065**
Šarachmetov, Šaturgun *see* **Paditz, Ludwig, 89k:60034**
Schulz, Dietmar *see* **Butzer, Paul L.; et al., 89g:60068**
Sonin, I. M. The separation of jets and some asymptotic properties of random sequences. **89j:60095**
Talagrand, Michel *see* **Rhee, WanSoo T., 89m:60065**
Teicher, Henry *see* **Chow, Yuan Shih, 89e:60001**
Volný, Dalibor Martingale decompositions of stationary processes. **89d:60053**
Vovk, V. G. The Kolmogorov-Stout law of the iterated logarithm. **89k:60042**
Wessel, Alan (*with* Wise, G. L.) On estimation of random variables via the martingale convergence theorem. **89e:93190**
Wise, G. L. *see* **Wessel, Alan, 89e:93190**
Yurachkovskiĭ, A. P. Equivalent forms of the Lindeberg condition for martingale differences. (Russian) **89g:60090**
Zhulenev, S. V. The law of the iterated logarithm and its indicators. (Russian) **89b:60083**
Zięba, Wiesław Conditional semiamarts and conditional amarts. **89b:60126**

60G44 Martingales with continuous parameter

Antonyan, A. A. The convergence of some semimartingales. (Russian) **89c:60062**
Arjas, E. *see* **Yashin, A. I., 89h:60074**
Bass, R. F. L_p inequalities for functionals of Brownian motion. **89h:60072**
Bertoin, Jean Une application du calcul du nombre de montées et de descentes aux fonctions de martingales locales continues. (English summary) [An application of the calculation of the number of up and down crossings to functions of continuous local martingales] **89k:60062**
Clark, J. M. C. Convergent martingales of asymptotically minimal fluctuation. **89b:60119**
Fagnola, Franco Une caractérisation de la filtration naturelle d'un processus ponctuel marqué. (English and Italian summaries) [A characterization of the natural filtration of a marked point process] **89d:60087**
Ganiev, I. G. Convergence of martingales with values in the space $L_0(\Omega, \Sigma, \lambda)$. (Russian) (Not in MR)
Gasparyan, K. V. Multiplicative decomposition of exponential semimartingales. (Russian. Armenian summary) **89g:60157**
Gilat, David (*with* Meilijson, Isaac) A simple proof of a theorem of Blackwell & Dubins on the maximum of a uniformly integrable martingale. **89i:60094**
Jacka, S. D. A maximal inequality for martingale local times. **89d:60088**
Kazamaki, Norihiko A new aspect of L_∞ in the space of BMO-martingales. **89e:60094**
Liptser, R. Sh. (*with* Yashin, A. I.) Applications of martingale methods. **89m:60105**
Meilijson, Isaac *see* **Gilat, David, 89i:60094**
Meyer, P.-A. Une surmartingale limite de martingales continues. [A limit supermartingale of continuous martingales] **89m:60106**
Mishura, Yu. S. Sufficient conditions for the relative compactness of measures corresponding to two-parameter strong martingales. (Russian) **89i:60095**
Nguyen Minh Duc Semimartingales and the standard Brownian motion. **89g:60158**
Ouknine, Y. Généralisation d'un lemme de S. Nakao et applications. (English summary) [Generalization of a lemma of S. Nakao and applications] **89h:60073**
Pontier, Monique (*with* Stricker, C.; Szpirglas, J.) Sur le théorème de représentation par rapport à l'innovation. [On the representation theorem with respect to innovation] **89k:60063**
Roĭtgarts, A. D. Representation of some functionals from an integer random measure on a plane. (Russian) **89f:60047**
Sanz, Marta Local time for two-parameter continuous martingales with respect to the quadratic variation. **89f:60048**
Situ, Rong On strong solution, uniqueness, stability and comparison theorems for a stochastic system with Poisson jumps. **89g:60159**
Skokan, Václav Generalization of the Girsanov theorem. **89e:60095**
Skorokhod, A. V. Continuous flows of σ-algebras of rank 1. (Russian) **89d:60089**
Stricker, C. À propos d'une conjecture de Meyer. [Concerning a conjecture of Meyer] **89m:60107**
— *see also* **Pontier, Monique; et al., 89k:60063**
Sviridenko, M. N. Martingale characterization of limit distributions in a space of functions without discontinuities of the second kind. **89i:60096**
Szpirglas, J. *see* **Pontier, Monique; et al., 89k:60063**
Yan, Jia An A comparison theorem for semimartingales and its applications. **89e:60096**
Yashin, A. I. (*with* Arjas, E.) A note on random intensities and conditional survival functions. **89h:60074**
— *see also* **Liptser, R. Sh., 89m:60105**
Zheng, Wei An Semimartingale with smooth density—the problem of "nodes". **89b:60120**

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Accardi, Luigi (*with* Parthasarathy, Kalyanapuram Rangachari) A martingale characterization of canonical commutation and anticommutation relations. **89e:81057**
Antonyan, A. A. Convergence of square integrable semimartingales. (Russian) (Not in MR)
Bañuelos, Rodrigo (*with* Bennett, Andrew G.) Paraproducts and commutators of martingale transforms. **89m:60108**
Bass, R. F. Uniqueness in law for pure jump Markov processes. **89h:60118**
Bassily, N. L. A proof of the left-hand side of the Burkholder-Davis-Gundy inequality for a large class of Orlicz spaces. **89b:60121**
Bennett, Andrew G. *see* **Bañuelos, Rodrigo, 89m:60108**
Bertoin, Jean Temps locaux et intégration stochastique pour les processus de Dirichlet. [Local times and stochastic integration for Dirichlet processes] **89g:60177**
Boogaert, P. (*with* Haezendonck, J.; Delbaen, F.) Limit theorems for the present value of the surplus of an insurance portfolio. **89h:62165**
Chang, I. Shou (*with* Hsiung, Chao Agnes) Likelihood process in parametric model of censored data with staggered entry—asymptotic properties and applications. **89k:62023**
Chauvin, Brigitte Martingales produits et lignes d'arrêt pour un processus de branchement brownien. (English summary) [Product martingales and stopping lines for a branching Brownian motion] **89b:60191**
Chow, Yuan Shih (*with* Teicher, Henry) ★ Probability theory. **89e:60001**
Delbaen, F. *see* **Boogaert, P.; et al., 89h:62165**
Dubins, Lester E. (*with* Schwarz, Gideon) A sharp inequality for sub-martingales and stopping-times. **89m:60101**
Fagnola, Franco (*with* Letta, Giorgio) Sur la représentation intégrale des martingales du processus de Poisson. [On the integral representation of martingales of the Poisson process] **89f:60056**
Gasparyan, K. V. A change-of-variables formula for optional semimartingales. (Russian. Armenian summary) (Not in MR)
Graham, Carl The martingale problem with sticky reflection conditions, and a system of particles interacting at the boundary. (French summary) **89k:60075**
Gramè, I. G. Normal approximation for semimartingales. (Russian) **89d:60040**
— *see also* **Mamatov, Kh. M.**, (Not in MR)
Groh, Jürgen Stochastic analysis for one-dimensional martingale diffusions. **89e:60148**
Haeusler, Erich On the rate of convergence in the central limit theorem for martingales with discrete and continuous time. **89a:60060**
Haezendonck, J. *see* **Boogaert, P.; et al., 89h:62165**
Hsiung, Chao Agnes *see* **Chang, I. Shou, 89k:62023**
Jacka, S. D. Doob's inequalities revisited: a maximal H^1-embedding. **89j:60054**
Karatzas, Ioannis (*with* Lehoczky, John P.; Shreve, Steven E.) Optimal portfolio and consumption decisions for a "small investor" on a finite horizon. **89d:90025**
— (*with* Shreve, Steven E.) ★ Brownian motion and stochastic calculus. **89c:60096**
Kazamaki, Norihiko (*with* Sekiguchi, Takeshi) A remark on L^∞ in the space of BMO-martingales. **89b:60122**
Krylov, N. V. On the Alexandrov estimates for parabolic equations and semimartingales. **89a:35104**

Le Breton, Alain (*with* Musiela, M.) Strong consistency of least squares estimates in linear regression models driven by semimartingales. **89a:62163**
— (*with* Musiela, M.) Laws of large numbers for semimartingales with applications to stochastic regression. **89m:60071**
Lehoczky, John P. *see* **Karatzas, Ioannis; et al., 89d:90025**
Letta, Giorgio *see* **Fagnola, Franco, 89f:60056**
Lin, Cheng De Quand l'inégalité de Kunita-Watanabe est-elle une égalité? [When is the Kunita-Watanabe inequality an equality?] **89g:60178**
Mamatov, Kh. M. (*with* Gramè, I. G.) Rate of convergence in a central limit theorem for stochastic integrals with respect to martingales. (Not in MR)
McGill, Paul Integral representation of martingales in the Brownian excursion filtration. **89e:60157**
Meyer, P.-A. Correction: "Stochastic differential geometry. II" [in *Séminaire de Probabilités, XVI, 1980/81, Supplément*, 165–207, Lecture Notes in Math., 921, Springer, Berlin, 1982; MR 84e:60083]. (French) **89e:60108**
— Quasimartingales hilbertiennes d'après Enchev. [Hilbert quasimartingales, following Enchev] **89i:60099**
Musiela, M. *see* **Le Breton, Alain, 89a:62163** *and* **89m:60071**
Negoro, Akira (*with* Tsuchiya, Masaaki) A convergence condition for stochastic processes associated with Lévy generating operators. **89j:60104**
Pardzhanadze, V. V. The stochastic integral of an anticipative process of a particular type. (Russian. English and Georgian summaries) **89a:60137**
Parthasarathy, Kalyanapuram Rangachari *see* **Accardi, Luigi, 89e:81057**
Pratelli, Maurizio Martingales and Banach space geometry. (Italian. English summary) **89e:46020**
Ruiz de Chávez, J. Compensation multiplicative et "produits de Wick". [Multiplicative compensation and "Wick products"] **89k:60072**
Schwartz, Laurent Calcul infinitésimal stochastique. [Stochastic infinitesimal calculus] **89g:60180**
Schwarz, Gideon *see* **Dubins, Lester E., 89m:60101**
Sekiguchi, Takeshi *see* **Kazamaki, Norihiko, 89b:60122**
Shreve, Steven E. *see* **Karatzas, Ioannis, 89c:60096** *and* **89d:90025**
Sinha, K. B. Quantum stochastic integral and martingales. **89i:81028**
Skorokhod, A. V. Stochastic processes in infinite-dimensional spaces. (Russian) **89e:60081**
Taylor, John Christopher Minimal functions, martingales, and Brownian motion on a noncompact symmetric space. **89e:60020**
Teicher, Henry *see* **Chow, Yuan Shih, 89e:60001**
Tsuchiya, Masaaki *see* **Negoro, Akira, 89j:60104**
Vovk, V. G. The Kolmogorov-Stout law of the iterated logarithm. **89k:60042**
Watson, Ray On the size of a rumour. **89e:60141**

60G46 Martingales and classical analysis

Bañuelos, Rodrigo (*with* Bennett, Andrew G.) Paraproducts and commutators of martingale transforms. **89m:60108**
Bassily, N. L. A proof of the left-hand side of the Burkholder-Davis-Gundy inequality for a large class of Orlicz spaces. **89b:60121**
Bennett, Andrew G. *see* **Bañuelos, Rodrigo, 89m:60108**
Garling, D. J. H. On martingales with values in a complex Banach space. **89g:60160**
Ibragimov, I. A. A probabilistic analogue of a theorem of Córdoba and Fefferman. **89g:60161**
Kazamaki, Norihiko (*with* Sekiguchi, Takeshi) A remark on L^∞ in the space of BMO-martingales. **89b:60122**
— *see also* **Kikuchi, Masato, 89d:60090**
Kikuchi, Masato (*with* Kazamaki, Norihiko) Martingale inequalities for ratios of the maximal function and the square function. **89d:60090**
Korányi, A. (*with* Picardello, Massimo A.; Taibleson, Mitchell H.) Hardy spaces on nonhomogeneous trees. **89g:60162**
Picardello, Massimo A. *see* **Korányi, A.; et al., 89g:60162**
Sekiguchi, Takeshi *see* **Kazamaki, Norihiko, 89b:60122**
Silverstein, Martin L. Orthogonal polynomial martingales on spheres. **89i:60097**
Taibleson, Mitchell H. *see* **Korányi, A.; et al., 89g:60162**
(Woess, Wolfgang) *see* **Korányi, A.; et al., 89g:60162**

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Bakry, Dominique Transformations de Riesz pour les semi-groupes symétriques. I. Étude de la dimension 1. [Riesz transforms for symmetric semigroups. I. Study of dimension 1] **89h:42022**
Bañuelos, Rodrigo A sharp good-λ inequality with an application to Riesz transforms. **89c:42023**
Borovskikh, Yu. V. *see* **Korolyuk, V. S., 89h:60071**
Burkholder, Donald L. A proof of Pełczyński's conjecture for the Haar system. **89j:46026**
Choi, K. P. Some sharp inequalities for martingale transforms. **89b:60132**
Fridli, S. (*with* Schipp, F.) Tree-martingales. **89j:60064**
Gilat, David On the ratio of the expected maximum of a martingale and the L_p-norm of its last term. **89m:60102**
Kazamaki, Norihiko A new aspect of L_∞ in the space of BMO-martingales. **89e:60094**
Korolyuk, V. S. (*with* Borovskikh, Yu. V.) ★ Мартингальная аппроксимация. (Russian) [Martingale approximation] **89h:60071**
Liu, Pei De Martingale characterizations of spaces not containing a copy of l_1. (Chinese. English summary) **89i:46019**
Matsuoka, Cho-ichiro Jensen measures of uniform algebras. **89k:46066**
Meyer, P.-A. Sur l'existence de l'opérateur carré du champ. [On the existence of the squared gradient operator] **89m:60177a**
— Erratum: "On the existence of the squared gradient operator". (French) **89m:60177b**
Müller, Paul F. X. Classification of the isomorphic types of martingale-H^1 spaces. **89g:46056**
— On projections in H^1 and BMO. **89i:46026**
Saloff-Coste, L. Variations quadratiques conditionnées et transformations de martingales. (English summary) [Conditioned square variations and martingale transforms] **89f:60046**
Schipp, F. *see* **Fridli, S., 89j:60064**
Xu, Quan Hua Inégalités pour les martingales de Hardy et renormage des espaces quasi-normés. (English summary) [Inequalities for Hardy martingales and renorming of quasinormed spaces] **89k:46029**
Yor, Marc Précisions sur l'existence et la continuité des temps locaux d'intersection du mouvement brownien dans $\mathbf{R}^2$. [Improved results on the existence and continuity of intersection local times for Brownian motion in $\mathbf{R}^2$] **89h:60126**

60G48 Generalizations of martingales

Avram, Florin Weak convergence of the variations, iterated integrals and Doléans-Dade exponentials of sequences of semimartingales. **89e:60097**
Brooks, James K. (*with* Dinculeanu, Nicolae) H^1 and BMO spaces of abstract martingales. **89b:60123**
— (*with* Dinculeanu, Nicolae) Modifications càdlàg et décomposition de Doob-Meyer des quasimartingales à valeurs dans un espace de Banach. (English summary) [Càdlàg modifications and the Doob-Meyer decomposition of quasimartingales with values in a Banach space] **89k:60064**
Bùi Kho'i Đàm On the convergence of amarts in Orlicz spaces. **89g:60163**
Chen, Pei De (*with* Zhuang, Xing Wu) On local comparability among families of sub-σ-fields. **89m:60109**
Choukairi, A. M-convergence, et regularite des martingales multivoques. Épi-martingales. [M-convergence, and regularity of multivalued martingales. Epi-martingales] **89m:60110**
Dinculeanu, Nicolae *see* **Brooks, James K., 89b:60123** *and* **89k:60064**
Dzhvarsheĭshvili, I. A. Amarts with discrete time. **89g:60164**
Enchev, Ognian Hilbert-space-valued quasimartingales. (Italian summary) **89b:60124**
Fazekas, I. On the convergence of regression type martingale fields. **89j:60063**
Fridli, S. (*with* Schipp, F.) Tree-martingales. **89j:60064**
Gan, Shi Xin Local convergence of amarts. (Chinese. English summary) **89j:60065**
Imkeller, Peter ★ Two-parameter martingales and their quadratic variation. **89e:60098**
Jacod, Jean (*with* Sadi, H.) Processus admettant un processus à accroissements indépendants tangent: cas général. [Processes admitting a tangent process with independent increments: the general case] **89m:60111**
Journé, J.-L. (*with* Meyer, P.-A.) Une martingale d'opérateurs bornés, non représentable en intégrale stochastique. [A martingale of bounded operators that is not representable as a stochastic integral] **89h:60075a**
— *see also* **Parthasarathy, Kalyanapuram Rangachari, 89h:60075b**
Li, Bing The strong law of large numbers for B-valued amarts. (Chinese. English summary) **89i:60098**
Liu, Pei De Vector-valued martingales in the limit and their a.e. convergence. (Chinese) **89d:60091**
Liu, Zhi Hui Banach-space-valued L^1 martingales in the limit and their properties. (Chinese) **89d:60092**
Marraffa, Valeria On almost sure convergence of amarts and martingales without the Radon-Nikodým property. **89g:60165**
Meyer, P.-A. Quasimartingales hilbertiennes d'après Enchev. [Hilbert quasimartingales, following Enchev] **89i:60099**
— *see also* **Journé, J.-L., 89h:60075a** *and* **Parthasarathy, Kalyanapuram Rangachari, 89h:60075b**
Mishura, Yu. S. Sufficient conditions for the uniform integrability of nonnegative two-parameter martingales. (Russian) **89b:60125**
— Exponential representations of continuous two-parameter martingales. (Russian) **89e:60099**
— Exponential formulas and the Doléans equation for discontinuous two-parameter processes. **89e:60100**
Nie, Zan Kan Itô's formula for semimartingales indexed by $[0,1]^n$. (Chinese) **89i:60100**
Parthasarathy, Kalyanapuram Rangachari A remark on the paper: "A martingale of bounded operators that is not representable as a stochastic integral" [in *Séminaire de Probabilités, XX, 1984/85*, 313–316, Lecture Notes in Math., 1204, Springer, Berlin, 1986; MR 89h:60075a] by J.-L. Journé and P.-A. Meyer. **89h:60075b**
Pérez-Abreu, Víctor Decompositions of semimartingales on $\mathcal{S}'$. **89i:60101**
Sadi, H. *see* **Jacod, Jean, 89m:60111**
Schipp, F. *see* **Fridli, S., 89j:60064**
Schwartz, Laurent Semi-martingales à valeurs dans des espaces d'applications C^∞ entre espaces vectoriels. I. (English summary) [Semimartingales with values in spaces of C^∞-maps between vector spaces. I] **89h:60076a**
— Le théorème Φ^{-1}, et les semi-martingales à valeurs dans des espaces d'applications C^∞ entre variétés. II. (English summary) [The Φ^{-1} theorem, and semimartingales with values in spaces of C^∞ maps between manifolds. II] **89h:60076b**
Shashiashvili, M. A. On the variation of the difference of singular components in the Skorokhod problem and on stochastic differential systems in a half-space. **89m:60112**
Wang, Zhen Peng The expectation of stopped semi-amarts and regularity and closeness of amarts. **89d:60093**
— Convergence of conditional expectations and uniform integrability of uniform amarts. (Chinese. English summary) **89m:60113**
— MIL type sequences and convergence of GFT. (Chinese) **89m:60114**
Xue, Xing Hong Some results on reversed adapted sequences. (Chinese. English summary) **89k:60065**
Yan, Jia An A change of variables formula for local times of semimartingales. (Chinese) (Not in MR)
Zhuang, Xing Wu *see* **Chen, Pei De, 89m:60109**
Zięba, Wiesław Conditional semiamarts and conditional amarts. **89b:60126**

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Bán, Ján Martingale convergence theorem in quantum logics. (Russian summary) **89a:81010**
Bingham, Michael S. Functional central limit theorems for approximate martingale arrays in a locally compact abelian group. **89i:60018**
Borovskikh, Yu. V. *see* **Korolyuk, V. S., 89h:60071**

Burkhardt, G. (*with* Küchler, U.) The semimartingale decomposition of one-dimensional quasidiffusions with natural scale. **89g:60242**

Davis, M. H. A. (*with* Gómez M., Guillermo L.) The semimartingale approach to the optimal resource allocation in the controlled labour-surplus economy. **89d:90062**

Đinh Quang Lu'u Summability and amarts of finite order in Fréchet spaces. **89e:47024**

Goldstein, Stanisław Norm convergence of martingales in L^p-spaces over von Neumann algebras. **89d:46064**

Gómez M., Guillermo L. *see* **Davis, M. H. A., 89d:90062**

Habib, M. K. *see* **Thavaneswaran, A., 89e:93189**

Hakim-Dowek, M. (*with* Lépingle, D.) L'exponentielle stochastique des groupes de Lie. [The stochastic exponential of Lie groups] **89h:58210**

Jacod, Jean (*with* Shiryaev, A. N.) ★ Limit theorems for stochastic processes. **89k:60044**

— (*with* Protter, Philip) Time reversal on Lévy processes. **89j:60102**

Korolyuk, V. S. (*with* Borovskikh, Yu. V.) ★ Мартингальная аппроксимация. (Russian) [Martingale approximation] **89h:60071**

Kubilius, K. On necessary and sufficient conditions for the convergence to quasicontinuous semimartingales. **89a:60091**

Küchler, U. *see* **Burkhardt, G., 89g:60242**

Lépingle, D. *see* **Hakim-Dowek, M., 89h:58210**

Lin, Cheng De Quand l'inégalité de Kunita-Watanabe est-elle une égalité? [When is the Kunita-Watanabe inequality an equality?] **89g:60178**

Liu, Pei De Set function processes and nuclearity in Fréchet spaces. (Chinese. English summary) **89k:46003**

Madan, Dilip B. Risk measurement in semimartingale models with multiple consumption goods. **89d:90037**

McGill, Paul Beyond the Ray-Knight theorem. **89f:60090**

Mel'nikov, A. V. (*with* Novikov, A. A.) Sequential inferences with guaranteed accuracy for semimartingales. (Russian) **89k:62109**

Meyer, P.-A. Fock space and probability theory. **89c:60050**

Mishura, Yu. S. Sufficient conditions for the weak convergence of two-parameter semimartingales to fields of diffusion type. (Russian) **89e:60078**

Morrow, Gregory J. A sharp estimate for dyadic martingales with multiple indices. **89e:60093**

Novikov, A. A. *see* **Mel'nikov, A. V., 89k:62109**

Pagès, G. Un théorème de convergence fonctionnelle pour les intégrales stochastiques. [A functional convergence theorem for stochastic integrals] **89k:60046**

Protter, Philip *see* **Jacod, Jean, 89j:60102**

Sanz, Marta Local time for two-parameter continuous martingales with respect to the quadratic variation. **89f:60048**

Shiryaev, A. N. *see* **Jacod, Jean, 89k:60044**

Stricker, C. Variation conditionnelle des processus stochastiques. (English summary) [Conditional variation of stochastic processes] **89k:60049**

Thavaneswaran, A. (*with* Habib, M. K.) Recursive parameter estimation for semimartingales. **89e:93189**

Tudor, Constantin On Volterra equations driven by semimartingales. **89g:60200**

Volný, Dalibor Martingale decompositions of stationary processes. **89d:60053**

Zięba, Wiesław On the $L^1_{\mathcal{G}}$ convergence for conditional amarts. **89g:60131**

60G50 Sums of independent random variables

Irle, A. On the expectation of the maximum for sums of independent random variables. **89a:60127**

Łagodowski, Zbigniew A. Probabilities of moderate deviations for randomly indexed sums of random variables with multidimensional indices. **89e:60101**

McKenzie, Ed The distributional structure of finite moving-average processes. **89g:60166**

Nguyễn Nam Hồng On convergence of some random series and integrals. **89e:60102**

Saliev, Sh. T. Asymptotic expansions for the distribution of sums of a random number of independent random variables with regularly changing tails. (Russian) (*see* **89g:60002**)

Items with secondary classifications in 60G50

Adler, André On the law of the iterated logarithm for nonidentically distributed random variables. **89e:60064**

Akhundov, I. S. Distribution of the maximum of normalized sums. (Russian. English summary) **89c:60021**

Bai, Zhi Dong A theorem of Feller revisited. **89m:60069**

Bentkus, Vidmantas-Kastytis Jurgio (*with* Liubinskas, K.) Rate of convergence in the invariance principle in Banach spaces. (Russian. English and Lithuanian summaries) **89c:60012**

Csörgő, Sándor (*with* Horváth, Lajos) On the passage of a random walk from generalized balls. **89a:60077**

Daugavet, A. I. Estimates for the rate of convergence of numeric characteristics in limit theorems with a stable limit law. (Russian) **89b:60053**

Deheuvels, Paul (*with* Pfeifer, D.) Poisson approximations of multinomial distributions and point processes. **89d:60063**

— (*with* Steinebach, Josef) Limit laws for the modulus of continuity of the partial sum process and for the Shepp statistic. **89i:60066**

Egorov, V. A. A generalization of the law of the iterated logarithm. (Russian) **89c:60035**

— The strong law of large numbers for the middle part of a sample. (Russian. English summary) **89g:60104**

Fill, James Allen Bounds on the coarseness of random sums. **89j:60030**

Gafurov, M. U. *see* **Sirazhdinov, S. Kh., 89d:60126**

Galambos, Janos (*with* Kátai, I.) Some remarks on random walks in multidimensional time. **89h:60145**

Gaposhkin, V. F. On the summation of sequences of independent random variables. **89g:60105**

Griffin, Philip S. Nonclassical law of the iterated logarithm behaviour for trimmed sums. **89e:60066**

Hall, Peter Rate of convergence in bootstrap approximations. **89k:60027**

Handelman, David E. ★ Positive polynomials, convex integral polytopes, and a random walk problem. **89b:06014**

He, Zhong Luo The strong law of large numbers for weighted sums of random variables. (Chinese. English summary) **89i:60068**

Hebda-Grabowska, Halina Weak convergence of random sums of infima of independent random variables. **89c:60025**

Horváth, Lajos *see* **Csörgő, Sándor, 89a:60077**

Jensen, J. L. ★ Asymptotic expansions for sums of dependent variables. **89f:60025**

Karlin, Samuel (*with* Ost, Friedemann) Maximal length of common words among random letter sequences. **89h:60047**

Kátai, I. *see* **Galambos, Janos, 89h:60145**

Kholmuradov, M. K. Probabilities of unimodal deviations for sums of independent random variables with multidimensional indices. (Russian) (*see* **89g:60002**)

Khrimpach, M. V. *see* **Nagaev, A. V., 89b:60060**

Kir'yanova, L. V. (*with* Rotar', V. I.) A lemma on "corrected" distributions. (Russian) **89b:60021**

Krajka, A. (*with* Rychlik, Z.) On the difference between the distribution functions of two random sums of independent random variables. **89a:60064**

Kruglov, V. M. Weak convergence of step-processes to a homogeneous Poisson process with independent increments. (Russian) **89h:60051**

— Convergence of the moments of random sums. **89h:60039**

Larin, Yu. V. Local limit theorems under matrix normalization. (Russian) **89i:60052**

Lin, Zheng Yan On Csörgő-Révész's increments of sums of non-i.i.d. random variables. **89i:60069**

— On increments of sums of independent nonidentically distributed random variables. **89m:60072**

— *see also* **Lu, Chuan Rong, 89e:60067**

Liubinskas, K. *see* **Bentkus, Vidmantas-Kastytis Jurgio, 89c:60012**

Lu, Chuan Rong (*with* Lin, Zheng Yan) Strong approximations for partial sums of independent and dependent random variables. (Chinese. English summary) **89e:60067**

Mačys, Juozas Independent identically distributed summands of an approximately binomial sum. **89g:60044**

Maller, R. A. A functional law of the iterated logarithm for distributions in the domain of partial attraction of the normal distribution. **89c:60046**

Matsak, I. K. (*with* Plichko, A. N.) Some inequalities for sums of independent random variables in Banach spaces. (Russian) **89e:60016**

Móricz, F. Strong limit theorems for blockwise m-dependent and blockwise quasi-orthogonal sequences of random variables. **89c:60038**

Mukhin, A. B. Asymptotic estimates for local probabilities of sums of independent random variables. (Russian) **89h:60040**

— Asymptotic estimates for local probabilities of sums of independent multidimensional random variables. (Russian) **89i:60054**

Nagaev, A. V. (*with* Khrimpach, M. V.) A local theorem for boundary functionals. (Russian) **89b:60060**

Nevzorov, V. B. Times of first attainment of a level for the sequence S_n/n. (Russian. English summary) **89c:60029**

Ost, Friedemann *see* **Karlin, Samuel, 89h:60047**

Pfeifer, D. *see* **Deheuvels, Paul, 89d:60063**

Plichko, A. N. *see* **Matsak, I. K., 89e:60016**

Rosalsky, Andrew Strong stability of normed weighted sums of pairwise i.i.d. random variables. **89g:60112**

Rotar', V. I. *see* **Kir'yanova, L. V., 89b:60021**

Rozovskiĭ, L. V. A multidimensional generalization of a problem of A. N. Kolmogorov. (Russian) **89m:60057**

Russo, Ralph P. On the last exit time and the number of exits of partial sums over a moving boundary. **89e:60070**

Rychlik, Z. *see* **Krajka, A., 89a:60064**

Sakalauskas, V. The asymptotics of absolute moments of sums of a random number of independent random variables. **89j:60053**

Sasvári, Zoltán *see* **Wolf, Werner, 89k:60017**

Schatte, Peter On the value distribution of sums of random variables. **89m:60073**

Shanmugam, Ramalingam Distribution of a sum of independent positive generalized discrete random variables. **89m:60032**

Sirazhdinov, S. Kh. (*with* Gafurov, M. U.) Asymptotics of the mean of a functional of a random walk. **89d:60126**

Slaby, M. On the upper bound for large deviations of sums of i.i.d. random vectors. **89m:60067**

Stadje, W. The influence of the initial distribution on a random walk. **89k:60096**

Steinebach, Josef *see* **Deheuvels, Paul, 89i:60066**

Szubarga, A. (*with* Szynal, D.) Conditioned random walks with random indices. **89g:60221**

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60G60 Random fields

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Zinchenko, N. M. Asymptotics of stable random fields. (Russian) **89e:60073**

60G99 None of the above, but in this section

Ali, K. (*with* Mishra, M. N.; Nayak, N. N.) Real zeros of a random polynomial. **89k:60067**
Behn, U. *see* **Teubel, A.; et al., 89f:60055**
Das, Gokulananda (*with* Mohanty, S. K.) Almost sure convergence of factored random Fourier series. **89g:60176**
Farahmand, K. The average number of level crossings of a random algebraic polynomial. **89m:60122**
— On the average number of crossings of an algebraic polynomial. **89m:60123**
Fourati, Sonia (*with* Lenglart, Erik) Tribus homogènes et commutation de projections. [Homogeneous tribes and commutation of projections] **89i:60110**
Glendinning, Richard The growth of the expected number of real zeros of a random polynomial with dependent coefficients. **89k:60068**
— The growth of the expected number of real zeros of a random polynomial. **89k:60069**
Kashin, B. S. The properties of random trigonometric polynomials with ±1 coefficients. (Russian) **89a:60135**
Kühnel, A. *see* **Teubel, A.; et al., 89f:60055**
Lenglart, Erik *see* **Fourati, Sonia, 89i:60110**
Lev, G. Sh. Generalized multiplication processes. (Russian) **89h:60086**
Li, Hung C. The exact probability that the roots of quadratic, cubic, and quartic equations are all real if the equation coefficients are random. **89j:60069**
Maejima, Makoto Self-similar processes and limit theorems. (Japanese) **89j:60070**
Mishra, M. N. *see* **Ali, K.; et al., 89k:60067**
Mohanty, S. K. *see* **Das, Gokulananda, 89g:60176**
Nayak, N. N. *see* **Ali, K.; et al., 89k:60067**
Pérez-Abreu, Víctor The exponential space of an L^2-stochastic process with independent increments. **89e:60107**
Ruiz de Chávez, J. Une remarque sur les processus de Dirichlet forts. [A remark on strong Dirichlet processes] **89i:60111**
Sankaranarayanan, G. On the theory of random polynomials. **89m:60124**
Song, Shiqui (*with* Yor, Marc) Inégalités pour les processus self-similaires arrêtés à un temps quelconque. [Inequalities for self-similar processes stopped at a random time] **89m:60125**
Teubel, A. (*with* Behn, U.; Kühnel, A.) Stratonovich model driven by dichotomous noise: analytical results. **89f:60055**
Treviño, G. Invariant structure in nonstationary behavior. **89m:60126**
Yor, Marc *see* **Song, Shiqui, 89m:60125**

Items with secondary classifications in 60G99

Dekking, F. M. (*with* Grimmett, G. R.) Superbranching processes and projections of random Cantor sets. **89f:60099**
Doignon, Jean-Paul *see* **Falmagne, Jean-Claude, 89k:92082**
Falmagne, Jean-Claude (*with* Doignon, Jean-Paul) A class of stochastic procedures for the assessment of knowledge. **89k:92082**
Farahmand, K. On the number of real zeros of a random trigonometric polynomial: coefficients with nonzero infinite mean. **89h:42003**
Grimmett, G. R. *see* **Dekking, F. M., 89f:60099**
Gurvits, L. N. (*with* Zakharin, A. M.) Randomization of random variables and their distributions. (Russian. English summary) **89d:60033**
Heyde, C. C. On combining quasilikelihood estimating functions. **89c:62141**
Iosifescu, Marius Mixing properties for f-expansions: the bounded p-variation case. **89b:11069**
Ivchenko, G. I. (*with* Sevast'yanov, B. A.) The χ^2-process and its application in statistics. (Russian) **89m:62015**
Iwankiewicz, R. (*with* Wójcicki, Z.) Threshold crossings in a linear oscillator due to a Poissonian train of general pulses. (Russian and Polish summaries) **89i:70039**
Jones, J. G. An equivalence between deterministic and probabilistic design criteria for linear systems. **89h:73032**
Kravtsov, Yu. A. *see* **Rytov, S. M.; et al., 89m:85002**
Krener, Arthur J. Reciprocal processes and the stochastic realization problem for acausal systems. **89c:93065**
Lachout, Petr Billingsley-type tightness criteria for multiparameter stochastic processes. **89m:60015**
Lii, Keh Shin (*with* Rosenblatt, Murray) Estimation and deconvolution when the transfer function has zeros. **89b:62196**
Lin, Zheng Yan Convergence of integrals of a stationary weakly correlated process. (Chinese. English summary) **89a:60066**
Lindner, U. Parallelism between quantum mechanics and theory of stochastic processes. **89e:81035**
Lindqvist, Bo Henry Association of probability measures on partially ordered spaces. **89i:60008**
Mehta, Ghanshyam *see* **Tarafdar, E., 89e:60127**
Nolan, John P. (*with* Sinkala, Zachariah) Equivalent norms on analytic subspaces of L^p. **89d:46033**
Ohtsubo, Yoshio On Dynkin's stopping problem with a finite constraint. **89d:60083**
Parthasarathy, Kalyanapuram Rangachari (*with* Sinha, K. B.) Stop times in Fock space stochastic calculus. **89h:81072**
(Rep'ev, A. P.) *see* **Rytov, S. M.; et al., 89m:85002**
Rosenblatt, Murray *see* **Lii, Keh Shin, 89b:62196**
Rudnicki, Ryszard An abstract Wiener measure invariant under a partial differential equation. (Russian summary) **89e:58072**
Rytov, S. M. (*with* Kravtsov, Yu. A.; Tatarskiĭ, V. I.) ★ Principles of statistical radiophysics. 2. **89m:85002**
Sadi, H. Une condition nécessaire et suffisante pour la convergence en pseudo-loi des processus. [A necessary and sufficient condition for the convergence in pseudolaw of processes] **89i:60010**
Sevast'yanov, B. A. *see* **Ivchenko, G. I., 89m:62015**
Sinha, K. B. *see* **Parthasarathy, Kalyanapuram Rangachari, 89h:81072**
Sinkala, Zachariah *see* **Nolan, John P., 89d:46033**
Sunklodas, J. Approximation of the distributions of the sums of weakly dependent random variables by a normal distribution. (Russian. English and Lithuanian summaries) **89f:60031**
Tarafdar, E. (*with* Mehta, Ghanshyam) Carathéodory selections, random fixed-point theorems and existence of equilibria. (Serbo-Croatian summary) **89e:60127**
Tatarskiĭ, V. I. *see* **Rytov, S. M.; et al., 89m:85002**
Wójcicki, Z. *see* **Iwankiewicz, R., 89i:70039**
Xu, Quan Hua Espaces d'interpolation réels entre les espaces V_p: propriétés géométriques et applications probabilistes. [Real interpolation spaces between the spaces V_p: geometric properties and probabilistic applications] **89m:46059**
Zakharin, A. M. *see* **Gurvits, L. N., 89d:60033**

60Hxx Stochastic analysis [see also 58G32]

Items with secondary classifications in 60Hxx

Adomian, George A. ★ Стохастические системы. (Russian) [Stochastic systems] **89h:93002**
(Bellman, Richard) *see* **Adomian, George A., 89h:93002**
(Volkov, N. G.) *see* **Adomian, George A., 89h:93002**

60H05 Stochastic integrals

Berger, Marc A. A Malliavin-type anticipative stochastic calculus. **89b:60131**
Bertoin, Jean Temps locaux et intégration stochastique pour les processus de Dirichlet. [Local times and stochastic integration for Dirichlet processes] **89g:60177**
Choi, K. P. Some sharp inequalities for martingale transforms. **89b:60132**
Dermoune, A. (*with* Krée, Paul; Wu, Li Ming) Calcul stochastique non adapté par rapport à la mesure aléatoire de Poisson. [Nonadapted stochastic calculus with respect to the Poisson random measure] **89i:60112**
Fagnola, Franco (*with* Letta, Giorgio) Sur la représentation intégrale des martingales du processus de Poisson. [On the integral representation of martingales of the Poisson process] **89f:60056**
Gasparyan, K. V. A change-of-variables formula for optional semimartingales. (Russian. Armenian summary) (Not in MR)
Gikhman, I. I. On the representation of functionals of a Wiener sheet by stochastic integrals. **89b:60133**
Grorud, Axel (*with* Pardoux, É.) Calcul stochastique anticipatif dans les espaces de Hilbert. (English summary) [Anticipating stochastic calculus in Hilbert spaces] **89m:60127**
Hazareesingh, L. (*with* Kannan, D.) Stochastic product integration and stochastic equations. **89a:60136**
Hu, Yao Zhong (*with* Meyer, P.-A.) Sur les intégrales multiples de Stratonovitch. [On the Stratonovitch multiple integrals] **89k:60070**
Kannan, D. *see* **Hazareesingh, L., 89a:60136**
Körezlioğlu, Hayri (*with* Üstünel, Ali Süleyman) An Itô formula for processes with values in an abstract Wiener space. **89i:60113**
Kotelenez, Peter A maximal inequality for stochastic convolution integrals on Hilbert spaces and space-time regularity of linear stochastic partial differential equations. **89h:60087**
Krakowiak, Wiesław (*with* Szulga, Jerzy) A multiple stochastic integral with respect to a strictly p-stable random measure. **89h:60088**
— (*with* Szulga, Jerzy) On a p-stable multiple integral. I, II. **89k:60071**
Krée, Paul La théorie des distributions en dimension quelconque et l'intégration stochastique. [The theory of distributions in any dimension, and stochastic integration] **89i:60114**
— *see also* **Dermoune, A.; et al., 89i:60112**
Kuo, Hui-Hsiung (*with* Russek, Andrzej) White noise approach to stochastic integration. **89b:60134**
Ledoux, M. Inégalités isopérimétriques et calcul stochastique. [Isoperimetric inequalities and stochastic calculus] **89j:60071**

etta, Giorgio Un exemple de processus mesurable adapté non progressif. [Example of a nonprogressive adapted measurable process] **89m:60128**
see also **Fagnola, Franco, 89f:60056**
in, Cheng De Quand l'inégalité de Kunita-Watanabe est-elle une égalité? [When is the Kunita-Watanabe inequality an equality?] **89g:60178**
L'approximation UCP et la continuité de certaines intégrales stochastiques dependant d'un paramètre. [UCP approximation and the continuity of certain stochastic integrals depending on one parameter] **89j:60072**
Ieyer, P.-A. Correction: "Stochastic differential geometry. II" [in *Séminaire de Probabilités, XVI, 1980/81, Supplément*, 165–207, Lecture Notes in Math., 921, Springer, Berlin, 1982; MR 84e:60083]. (French) **89e:60108**
Calcul stochastique non commutatif. [Noncommutative stochastic calculus] **89d:60097**
see also **Hu, Yao Zhong, 89k:60070**
orris, James What is stochastic calculus? (*see* **89k:60003**)
ualart, D. (*with* Pardoux, É.) Stochastic calculus with anticipating integrands. **89h:60089**
(*with* Zakai, Moshe) Generalized multiple stochastic integrals and the representation of Wiener functionals. **89i:60115**
hkubo, Hikaru On a class of stochastic integrals. **89h:60090**
Almost sure convergence for stochastic integrals. **89h:60091**
ardoux, É. *see* **Nualart, D., 89h:60089** *and* **Grorud, Axel, 89m:60127**
ardzhanadze, V. V. The stochastic integral of an anticipative process of a particular type. (Russian. English and Georgian summaries) **89a:60137**
ark, Chull (*with* Skoug, David) A note on Paley-Wiener-Zygmund stochastic integrals. **89e:60109**
arthasarathy, Kalyanapuram Rangachari A unified approach to classical, bosonic and fermionic Brownian motions. **89m:60129**
érez-Abreu, Víctor Mutiple Wiener integrals and nonlinear functionals of a nuclear space valued Wiener process. **89e:60110**
osiński, Jan On stochastic integration by series of Wiener integrals. **89m:60130**
uiz de Chávez, J. Compensation multiplicative et "produits de Wick". [Multiplicative compensation and "Wick products"] **89k:60072**
ussek, Andrzej *see* **Kuo, Hui-Hsiung, 89b:60134**
koug, David *see* **Park, Chull, 89e:60109**
zulga, Jerzy *see* **Krakowiak, Wiesław, 89h:60088** *and* **89k:60071**
rofimov, E. I. Meyer-Emery inequalities for the norms of stochastic integrals with a parameter. (Russian) **89c:60065**
udor, Constantin A stopped Doob inequality for stochastic integrals with Volterra integrands. **89f:60057**
stünel, Ali Süleyman *see* **Körezlioğlu, Hayri, 89i:60113**
u, Li Ming *see* **Dermoune, A.; et al., 89i:60112**
akai, Moshe *see* **Nualart, D., 89i:60115**

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ccardi, Luigi (*with* Parthasarathy, Kalyanapuram Rangachari) A martingale characterization of canonical commutation and anticommutation relations. **89e:81057**
vram, Florin Weak convergence of the variations, iterated integrals and Doléans-Dade exponentials of sequences of semimartingales. **89e:60097**
ojdecki, Tomasz ★ Teoría general de procesos e integración estocástica. Parte I. (Spanish) [The general theory of processes and stochastic integration. Part I] **89a:60099**
hang, Kun Soo (*with* Johnson, Gerald W.; Skoug, David) Functions in the Banach algebra $S(\nu)$. **89g:46081**
hitashvili, R. Ya. (*with* Mania, M. G.) On optimal controls in the problem of locally absolutely continuous change of measure (compact sets of decisions). **89a:93056**
sörgő, Miklós (*with* Horváth, Lajos) Rate of convergence of transport processes with an application to stochastic differential equations. **89k:60073**
evi, Prativa *see* **Samal, G., 89g:60126**
ynkin, E. B. Superprocesses and their linear additive functionals. **89k:60124**
lliott, Robert J. (*with* Kohlmann, Michael) A short proof of a martingale representation result. **89a:60181**
llis, Steven P. Second-order approximation to the characteristic function of certain point-process integrals. **89g:60167**
liklikh, Yu. E. A curvilinear Itô integral with Riemannian parallel transport, and stochastic equations on manifolds. (Russian) **89a:58118**
Geometric aspects of Nelson's stochastic quantization. (Russian) **89i:81026a**
Geometrical aspects of Nelson's stochastic quantization. **89i:81026b**
ramè, I. G. *see* **Mamatov, Kh. M.**, (Not in MR)
orváth, Lajos *see* **Csörgő, Miklós, 89k:60073**
u, Yao Zhong Stochastic analysis of the stochastic functional on the basic space. **89a:60139**
keda, Nobuyuki Limit theorems for a class of random currents. **89b:60186**
nkeller, Peter ★ Two-parameter martingales and their quadratic variation. **89e:60098**
ohnson, Gerald W. *see* **Chang, Kun Soo; et al., 89g:46081**
ourné, J.-L. (*with* Meyer, P.-A.) Une martingale d'opérateurs bornés, non représentable en intégrale stochastique. [A martingale of bounded operators that is not representable as a stochastic integral] **89h:60075a**
see also **Parthasarathy, Kalyanapuram Rangachari, 89h:60075b**
aj, Ingemar Time reversal and stationarity of infinite-dimensional Markov birth-and-death processes. **89e:60161**
ohlmann, Michael *see* **Elliott, Robert J., 89a:60181**
Iajor, P. On the tail behaviour of the distribution function of multiple stochastic integrals. **89j:60031**
Iamatov, Kh. M. (*with* Gramè, I. G.) Rate of convergence in a central limit theorem for stochastic integrals with respect to martingales. (Not in MR)
Iania, M. G. *see* **Chitashvili, R. Ya., 89a:93056**
Ieyer, P.-A. *see* **Journé, J.-L., 89h:60075a** *and* **Parthasarathy, Kalyanapuram Rangachari, 89h:60075b**
Iishura, Yu. S. Exponential representations of continuous two-parameter martingales. (Russian) **89e:60099**
Exponential formulas and the Doléans equation for discontinuous two-parameter processes. **89e:60100**

Mori, Toshio (*with* Oodaira, Hiroshi) The functional iterated logarithm law for stochastic processes represented by multiple Wiener integrals. **89a:60082**
Moulinier, J.-M. Théorème limite pour les équations différentielles stochastiques. (English summary) [Limit theorem for stochastic differential equations] **89m:60138**
Nguyen Minh Duc Semimartingales and the standard Brownian motion. **89g:60158**
Nie, Zan Kan Itô's formula for semimartingales indexed by $[0, 1]^n$. (Chinese) **89i:60100**
Nishioka, Kunio A stochastic solution of a high order parabolic equation. **89f:35097**
Nualart, D. Noncausal stochastic integrals and calculus. **89i:60118**
Oodaira, Hiroshi *see* **Mori, Toshio, 89a:60082**
Pagès, G. Un théorème de convergence fonctionnelle pour les intégrales stochastiques. [A functional convergence theorem for stochastic integrals] **89k:60046**
Parthasarathy, K. V. *see* **Vasudevan, R., 89g:82030**
Parthasarathy, Kalyanapuram Rangachari A remark on the paper: "A martingale of bounded operators that is not representable as a stochastic integral" [in *Séminaire de Probabilités, XX, 1984/85*, 313–316, Lecture Notes in Math., 1204, Springer, Berlin, 1986; MR 89h:60075a] by J.-L. Journé and P.-A. Meyer. **89h:60075b**
— *see also* **Accardi, Luigi, 89e:81057**
Radchenko, V. N. Integral representation of random linear functionals with values in $L_p(\Omega, F, P)$. (Russian) **89d:60006**
Rajput, Balram S. (*with* Rama-Murthy, Kavi) On the spectral representations of complex semistable and other infinitely divisible stochastic processes. **89e:60089**
Rama-Murthy, Kavi *see* **Rajput, Balram S., 89e:60089**
Rogers, L. C. G. (*with* Williams, David) ★ Diffusions, Markov processes, and martingales. Vol. 2. **89k:60117**
Ruiz de Chávez, J. Une remarque sur les processus de Dirichlet forts. [A remark on strong Dirichlet processes] **89i:60111**
Saito, Kimiaki Itô's formula and Lévy's Laplacian. **89f:60042**
Samal, G. (*with* Devi, Prativa) Integral properties of a stochastic process. **89g:60126**
Sinha, K. B. Quantum stochastic integral and martingales. **89i:81028**
Skokan, Václav Generalization of the Girsanov theorem. **89e:60095**
Skoug, David *see* **Chang, Kun Soo; et al., 89g:46081**
Stricker, C. À propos d'une conjecture de Meyer. [Concerning a conjecture of Meyer] **89m:60107**
Szyszkowski, I. The invariance principle for functionals of sums of martingale differences. **89j:60051**
Tudor, Constantin On Volterra equations driven by semimartingales. **89g:60200**
Üstünel, Ali Süleyman Extension of the Itô calculus via the Malliavin calculus. **89i:60120**
Vasudevan, R. (*with* Parthasarathy, K. V.) Fluctuation-dissipation relations in the presence of multiplicative noise. **89g:82030**
Williams, David *see* **Rogers, L. C. G., 89k:60117**
Yor, Marc Sur la représentation comme intégrales stochastiques des temps d'occupation du mouvement Brownien dans $\mathbf{R}^d$. [On the representation via stochastic integrals of the occupation times of Brownian motion in $\mathbf{R}^d$] **89g:60254**

60H07 Stochastic calculus of variations

Blei, Ron C. (*with* Kahane, J.-P.) A computation of the Littlewood exponent of stochastic processes. **89a:60138**
Davis, M. H. A. The Wiener space derivative for functionals of diffusions on manifolds. **89i:60116**
Fang, Shizan Une inégalité isopérimétrique sur l'espace de Wiener. (English summary) [An isoperimetric inequality on Wiener space] **89m:60131**
Gaveau, Bernard Le problème de Cauchy pour une équation d'ondes stochastique. (English summary) [The Cauchy problem for a stochastic wave equation] **89m:60132**
Gravereaux, J.-B. Calcul de Malliavin et probabilité invariante d'une chaîne de Markov. (English summary) [Malliavin calculus and invariant probability of a Markov chain] **89i:60117**
Hu, Yao Zhong Stochastic analysis of the stochastic functional on the basic space. **89a:60139**
Kahane, J.-P. *see* **Blei, Ron C., 89a:60138**
Léandre, Rémi Densité en temps petit d'un processus de sauts. [Density of a jump process for small times] **89g:60179**
— Applications quantitatives et géométriques du calcul de Malliavin. [Quantitative and geometric applications of the Malliavin calculus] **89m:60133**
Meyer, P.-A. Correction: "Riesz transforms for Gaussian laws" [in *Séminaire de Probabilités, XVIII*, 179–193, Lecture Notes in Math., 1059, Springer, Berlin, 1984; MR 86i:60150]. (French) **89d:60098**
— Distributions, noyaux, symboles d'après Krée. [Distributions, kernels, symbols, following Krée] **89m:60134**
Norris, James Simplified Malliavin calculus. **89f:60058**
Nualart, D. Noncausal stochastic integrals and calculus. **89i:60118**
Ocone, Daniel Application of Wiener space analysis to nonlinear filtering. **89d:60099**
— A guide to the stochastic calculus of variations. **89h:60093**
— Stochastic calculus of variations for stochastic partial differential equations. **89i:60119**
— Probability densities for conditional statistics in the cubic sensor problem. **89h:60092**
Schwartz, Laurent Calcul infinitésimal stochastique. [Stochastic infinitesimal calculus] **89g:60180**
Üstünel, Ali Süleyman (*with* Zakai, Moshe) Caractérisation géométrique de l'indépendance sur l'espace de Wiener. (English summary) [Geometric characterization of independence on the Wiener space] **89b:60135**
— Extension of the Itô calculus via the Malliavin calculus. **89i:60120**
Watanabe, Shinzo Generalized Wiener functionals and their applications. **89h:60094**
Wu, Li Ming Construction de l'opérateur de Malliavin sur l'espace de Poisson. [Construction of the Malliavin operator on Poisson space] **89f:60059**
Zakai, Moshe *see* **Üstünel, Ali Süleyman, 89b:60135**

Items with secondary classifications in 60H07

Akiyama, Hiroshi Geometric aspects of Malliavin's calculus on vector bundles. **89a:58117**
Berger, Marc A. A Malliavin-type anticipative stochastic calculus. **89b:60131**

Bouleau, N. (*with* Hirsch, F. A.) Propriétés d'absolue continuité dans les espaces de Dirichlet et application aux équations différentielles stochastiques. (English summary) [Absolute continuity properties in Dirichlet spaces and an application to stochastic differential equations] **89f:60060**
Dermoune, A. (*with* Krée, Paul; Wu, Li Ming) Calcul stochastique non adapté par rapport à la mesure aléatoire de Poisson. [Nonadapted stochastic calculus with respect to the Poisson random measure] **89i:60112**
Grorud, Axel (*with* Pardoux, É.) Calcul stochastique anticipatif dans les espaces de Hilbert. (English summary) [Anticipating stochastic calculus in Hilbert spaces] **89m:60127**
Hirsch, F. A. Propriété d'absolue continuité pour les équations différentielles stochastiques dépendant du passé. (English summary) [The absolute continuity property for stochastic differential equations with coefficients that depend on the past] **89a:60143**
— *see also* **Bouleau, N., 89f:60060**
Krée, Paul *see* **Dermoune, A.; et al., 89i:60112**
Kuo, Hui-Hsiung Brownian motion, diffusions and infinite-dimensional calculus. **89h:60139**
Léandre, Rémi Calcul des variations sur un brownien subordonné. [Calculus of variations on a subordinate Brownian motion] **89m:60201**
Misawa, Tetsuya (*with* Yasue, Kunio) Canonical stochastic dynamical systems. **89b:81053**
Nualart, D. Application du calcul de Malliavin aux équations différentielles stochastiques sur le plan. [Application of the Malliavin calculus to stochastic differential equations in the plane] **89h:60097**
— (*with* Vives, Josep) Continuité absolue de la loi du maximum d'un processus continu. (English summary) [Absolute continuity of the law of the maximum of a continuous process] **89i:60082**
— (*with* Pardoux, É.) Stochastic calculus with anticipating integrands. **89h:60089**
Pardoux, É. *see* **Nualart, D., 89h:60089** *and* **Grorud, Axel, 89m:60127**
Picard, Jean Approximation of stochastic differential equations and application of the stochastic calculus of variations to the rate of convergence. **89m:60139**
Vives, Josep *see* **Nualart, D., 89i:60082**
Wu, Li Ming *see* **Dermoune, A.; et al., 89i:60112**
Yasue, Kunio *see* **Misawa, Tetsuya, 89b:81053**

60H10 Stochastic ordinary differential equations [see also 34F05]

Almazov, M. (*with* Kulinich, G. L.) On the asymptotic behavior of the unstable solution of an inhomogeneous stochastic diffusion equation. (Russian) **89c:60066**
— Finding the explicit form of the transition density of the solution of a stochastic diffusion equation with a piecewise constant drift coefficient. (Russian) **89d:60100**
— Behavior of the solution of a stochastic diffusion equation under unbounded growth of the drift coefficient on a finite segment. (Russian) **89g:60181**
Alyushina, L. A. Euler polygonal lines for Itô equations with monotone coefficients. (Russian) **89c:60067**
— (*with* Krylov, N. V.) Passage to the limit in Itô stochastic equations. **89h:60095**
Atalla, M. A. An approximate method for solving stochastic differential equations. (Russian) **89g:60182**
Balakrishnan, A. V. On a class of stochastic differential equations which do not satisfy Lipschitz conditions. **89b:60136**
Balandin, V. V. On a problem of stability under small random perturbations. (Russian) **89b:60137**
Baldi, Paolo (*with* Chaleyat-Maurel, M.) An extension of Ventsel′-Freidlin estimates. **89i:60121**
Baxendale, Peter H. Moment stability and large deviations for linear stochastic differential equations. **89c:60068**
Bougerol, Philippe Théorèmes limite pour les systèmes linéaires à coefficients markoviens. (English summary) [Limit theorems for linear systems with Markov coefficients] **89i:60122**
Bouleau, N. (*with* Hirsch, F. A.) Propriétés d'absolue continuité dans les espaces de Dirichlet et application aux équations différentielles stochastiques. (English summary) [Absolute continuity properties in Dirichlet spaces and an application to stochastic differential equations] **89f:60060**
— (*with* Hirsch, F. A.) Sur des propriétés du flot d'une équation différentielle stochastique. (English summary) [Remarks about the flow of a stochastic differential equation] **89a:60140**
Carverhill, Andrew Conditioning a lifted stochastic system in a product space. **89m:60135**
Chaleyat-Maurel, M. *see* **Baldi, Paolo, 89i:60121**
Chen, Xiong Uniqueness of trajectories of solutions to stochastic differential equations of Poisson type with two indices. (Chinese) (Not in MR)
Chow, P. L. Expectation functionals associated with some stochastic evolution equations. **89e:60111**
Csörgő, Miklós (*with* Horváth, Lajos) Rate of convergence of transport processes with an application to stochastic differential equations. **89k:60073**
Darling, R. W. R. Constructing stochastic flows: some examples. **89i:60123**
— (*with* Le Jan, Y.) The statistical equilibrium of an isotropic stochastic flow with negative Lyapounov exponents is trivial. **89j:60073**
Dawidowicz, Antoni Leon (*with* Twardowska, Krystyna) Some remarks on boundary value problems for linear stochastic differential equations. **89j:60074**
Demenin, A. N. (*with* Diesperova, M. M.) Limit relations for characteristic functions of the solutions of a system of linear differential equations with random coefficients. (Russian) **89k:60074**
Diesperova, M. M. *see* **Demenin, A. N., 89k:60074**
Dorogovtsev, A. A. Smoothness of the solutions of generalized linear stochastic differential equations. (Russian) **89i:60124**
Dorogovtsev, A. Ya. Asymptotic behavior of the solutions of the Cauchy problem for an abstract stochastic differential equation. (Russian) **89g:60183**
Fedchenya, I. I. Local methods for constructing stationary distribution functions of systems of stochastic differential Langevin-type equations: noise influence on simple bifurcation. **89g:60184**
Feyel, Denis Sur la méthode de Picard (EDO et EDS). [On the Picard method (ODE and SDE)] **89i:60125**
Funke, R. The behavior of the trajectories of the solution of a stochastic differential equation. (Russian) **89a:60141**
Galves, A. (*with* Olivieri, Enzo; Vares, M. E.) Metastability for a class of dynamical systems subject to small random perturbations. **89a:60142**
Graham, Carl The martingale problem with sticky reflection conditions, and a system of particles interacting at the boundary. (French summary) **89k:60075**
Greiner, A. (*with* Strittmatter, W.; Honerkamp, J.) Numerical integration of stochastic differential equations. **89k:60076**
Gyöngy, I. Mimicking complicated stochastic differential equations by simpler ones. **89g:60185**
Ha, Ki Sik (*with* Kim, Jai Heui) Monotone iterative technique for 1-dimensional stochastic differential equations. **89d:60101**
Hirsch, F. A. Propriété d'absolue continuité pour les équations différentielles stochastiques dépendant du passé. (English summary) [The absolute continuity property for stochastic differential equations with coefficients that depend on the past] **89a:60143**
— *see also* **Bouleau, N., 89a:60140** *and* **89f:60060**
Honerkamp, J. *see* **Greiner, A.; et al., 89k:60076**
Horváth, Lajos *see* **Csörgő, Miklós, 89k:60073**
Hu, Xuan Da Boundedness and invariant measures of semilinear stochastic evolution equations. (Chinese summary) **89h:60096**
Ichikawa, Akira Bounded solutions and periodic solutions of a linear stochastic evolution equation. **89f:60061**
Iizuka, Masaru Weak convergence of a sequence of stochastic difference equations to a stochastic ordinary differential equation. **89b:60138**
Iscoe, I. (*with* McDonald, David R.) Large deviations for l^2-valued Ornstein-Uhlenbeck processes. **89m:60136**
Janković, Svetlana Almost surely limit theorems for stochastic differential equations. (Serbo-Croatian summary) **89d:60102**
— Iterative procedure for solving stochastic differential equations. **89b:60139**
Kim, Jai Heui *see* **Ha, Ki Sik, 89d:60101**
Kliemann, W. Analysis of nonlinear stochastic systems. **89j:60075**
Kolmanovskiĭ, V. B. Periodic solutions of stochastic equations with aftereffect. **89g:60186**
Koski, T. An asymptotic localization by perturbing operators for partial observation of a stochastic evolution equation. **89i:60126**
Kravets, T. N. On the connection between the solution of a stochastic differential inclusion and the solution of an ordinary differential equation. (Russian) **89k:60077**
Krylov, N. V. Moment estimates for the quasiderivatives, with respect to the initial data, of solutions of stochastic equations and their applications. (Russian) **89k:60078**
— *see also* **Alyushina, L. A., 89h:60095**
Kulinich, G. L. *see* **Almazov, M., 89c:60066**
Kurth, Petra (*with* Zschiesche, Hans-Ulrich) Numerische Approximation von Markowprozessen. [Numerical approximation of Markov processes] **89j:60076**
Lapeyre, B. Majoration a priori des solutions d'équations différentielles stochastiques stables. [A priori upper bounds of solutions of stable stochastic differential equations] **89i:60127**
Le Jan, Y. *see* **Darling, R. W. R., 89j:60073**
Łuczka, J. A stochastic process driven by the quadratic Ornstein-Uhlenbeck noise: generator, propagators and all that. **89m:60137**
Ma, Hong On some asymptotic properties of the solution for a stochastic differential equation on Hilbert spaces. **89e:60112**
Mackevičius, Vigirdas S^p stability of solutions of symmetric stochastic differential equations with discontinuous driving semimartingales. (French summary) **89g:60187**
Maslowski, Bohdan Stability of invariant measure of a stochastic differential equation describing molecular rotation. (Russian and Czech summaries) **89g:60188**
Masoliver, Jaume (*with* Weiss, G. H.) Some first passage time problems for shot noise processes. **89b:60140**
McDonald, David R. *see* **Iscoe, I., 89m:60136**
Mel′nikov, A. I. Mean-square bounded solutions of a class of stochastic differential systems. (Russian) **89j:60077**
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Mil′shteĭn, G. N. A theorem on the order of convergence of mean-square approximations of solutions of systems of stochastic differential equations. (Russian) **89d:60104**
Moulinier, J.-M. Théorème limite pour les équations différentielles stochastiques. (English summary) [Limit theorem for stochastic differential equations] **89m:60138**
Narita, Kiyomasa Supplements to a priori estimates for solutions of stochastic differential equations. (Japanese summary) **89a:60144**
— Necessary condition for explosion of second order Itô processes. (Japanese summary) **89a:60145**
— Problems for stationary probability distributions of linear and nonlinear stochastic equations. (Japanese summary) **89e:60114**
Newton, Nigel J. Asymptotically optimal discrete approximations for stochastic differential equations. **89d:60105**
Nosovskiĭ, G. V. Estimates for derivates with respect to initial conditions of the mathematical expectation of a solution of a stochastic equation on a manifold. **89k:60079**
Nualart, D. Application du calcul de Malliavin aux équations différentielles stochastiques sur le plan. [Application of the Malliavin calculus to stochastic differential equations in the plane] **89h:60097**
Olivieri, Enzo *see* **Galves, A.; et al., 89a:60142**
Osada, Hirofumi Propagation of chaos for the two-dimensional Navier-Stokes equation. **89e:60115**
Pardoux, É. Wide band limit of Lyapounov exponents. **89c:60069**
— (*with* Wihstutz, V.) Lyapunov exponent and rotation number of two-dimensional linear stochastic systems with small diffusion. **89e:60116**
Petrov, I. B. The strong law of large numbers for a system of stochastic differential equations. **89a:60146**

Picard, Jean Une classe de processus stable par retournement du temps. [A class of processes that is stable under time reversal] **89d:60106**
– Approximation of stochastic differential equations and application of the stochastic calculus of variations to the rate of convergence. **89m:60139**
Piccioni, M. Convergence of implicit discretization schemes for linear differential equations with application to filtering. **89b:60141**
Ponosov, A. V. Operator of inner superposition in the space of Itô processes. (Russian) (*see* **89c:00009**)
– A fixed-point method in the theory of stochastic differential equations. **89g:60189**
Rutkowski, Marek Strong solutions of stochastic differential equations involving local times. **89b:60142**
Safaryan, R. G. A class of random processes and the corresponding systems of differential equations. (Russian. Armenian summary) **89b:60143**
Saisho, Yasumasa Mutually repelling particles of *m* types. **89d:60107**
Strittmatter, W. *see* **Greiner, A.; et al., 89k:60076**
Sulima, I. M. *see* **Valeev, K. G., 89g:60190**
Sussmann, H. J. Product expansions of exponential Lie series and the discretization of stochastic differential equations. **89d:60108**
Tanaka, Hiroshi[1] Stochastic differential equation corresponding to the spatially homogeneous Boltzmann equation of Maxwellian and noncutoff type. **89h:60098**
Tsvintarnaya, N. D. General form of the coefficients of a solvable stochastic differential equation with two-dimensional time. (Russian) **89i:60128**
Twardowska, Krystyna *see* **Dawidowicz, Antoni Leon, 89j:60074**
Valeev, K. G. (*with* Sulima, I. M.) Investigation of the mean-square stability of a linear stochastic differential equation. (Russian) **89g:60190**
Vares, M. E. *see* **Galves, A.; et al., 89a:60142**
Veretennikov, A. Yu. Estimates of the mixing rate for stochastic equations. (Russian) **89b:60144**
Wagner, Wolfgang[1] Monte Carlo evaluation of functionals of solutions of stochastic differential equations. Variance reduction and numerical examples. **89k:60080**
Weiss, G. H. *see* **Masoliver, Jaume, 89b:60140**
Wihstutz, V. *see* **Pardoux, É., 89e:60116**
Zschiesche, Hans-Ulrich *see* **Kurth, Petra, 89j:60076**

Items with secondary classifications in 60H10

Apoyan, G. T. An estimate for the parameter of a nondifferentiable drift coefficient. (Russian. Armenian summary) **89c:62143**
Ariaratnam, S. T. (*with* Xie, W.-C.) Effect of derivative process on the almost-sure asymptotic stability of second-order linear stochastic systems. **89m:93087**
Arsen′ev, A. A. Approximation of the Boltzmann equation by stochastic equations. (Russian) **89g:82038**
Artem′ev, S. S. *see* **Averina, T. A., 89c:65141** *and* **89k:65166**
Averina, T. A. (*with* Artem′ev, S. S.) ★ Некоторые вопросы построения и использования численных методов для решения систем стохастических дифференциальных уравнений. (Russian) [Some problems of the construction and use of numerical methods for solving systems of stochastic differential equations] **89c:65141**
— (*with* Artem′ev, S. S.) Numerical solution of systems of stochastic differential equations. **89k:65166**
Baishya, M. C. (*with* Chakrabarti, C. G.) Stochastic linearization approach to some nonlinear processes. **89j:92020**
Balakrishnan, Venkataraman (*with* Van den Broeck, C.; Hanggi, P.) First-passage times of non-Markovian processes: the case of a reflecting boundary. **89m:82024**
Bensoussan, A. On some approximation techniques in nonlinear filtering. **89d:93099**
Blanchard, Ph. (*with* Golin, Simon) Diffusion processes with singular drift fields. **89a:60179**
Bojdecki, Tomasz (*with* Gorostiza, Luis G.) Inhomogeneous infinite-dimensional Langevin equations. **89b:60111**
Bougerol, Philippe Tightness of products of random matrices and stability of linear stochastic systems. **89a:60028**
Braumann, Carlos A. Upper bound on the probability of extinction of a population with density-dependent growth in a random environment. (Portuguese. English summary) **89g:92035**
– Estimating parameters and extinction probabilities in population stochastic differential equation models. **89k:92046**
Buryak, O. E. The splitting method for solving stochastic differential equations that describe the scattering process in an *N*-particle system. (Russian) **89b:81256**
Cattiaux, Patrick Time reversal of diffusion processes with a boundary condition. **89g:60243**
Chakrabarti, C. G. *see* **Baishya, M. C., 89j:92020**
Chaleyat-Maurel, M. (*with* Michel, Dominique) The support of the law of a filter in C^∞ topology. **89f:60044**
Chinedu, O. S. Initial manifold of the Cauchy problem for a degenerate system of linear homogeneous stochastic equations. (Russian) **89d:34095**
Christensen, S. K. (*with* Kallianpur, G.) Stochastic differential equations for neuronal behavior. **89c:60070**
Cohen, Robert A filtering formula for a nonlinear system having a continuous observation, and a discrete observation at random times. **89e:93193**
Day, Martin V. Boundary local time and small parameter exit problems with characteristic boundaries. **89m:60185**
De Blasi, F. S. (*with* Myjak, J.) Random differential inclusions with nonconvex right-hand side. **89b:34137**
Deuschel, J.-D. Central limit theorem for an infinite lattice system of interacting diffusion processes. **89f:60022**
Diósi, L. Continuous quantum measurement and Itô formalism. **89j:81019**
Dochviri, V. M. On optimal stopping with incomplete data. **89g:60152**
Dokuchaev, N. G. Transversality conditions for the stochastic maximum principle. (Russian) **89h:49022**
Eizenberg, Alexander (*with* Kifer, Yuri) The asymptotic behavior of the principal eigenvalue in a singular perturbation problem with invariant boundaries. **89d:58109**
Engelbert, H. J. (*with* Schmidt, Wolfgang Michael) On the behaviour of certain Bessel functionals. An application to a class of stochastic differential equations. **89b:60184**
Florens-Zmirou, Danièle Statistiques de diffusions et temps local. (English summary) [Statistics of diffusions and local time] **89f:60089**
Fomin, V. N. *see* **Petrov, O. A., 89j:93109**
Funke, R. A nonlinear diffusion with hyper-gamma distribution. **89m:60186**
Germani, A. (*with* Piccioni, M.) Semidiscretization of stochastic partial differential equations on $\mathbf{R}^d$ by a finite-element technique. **89f:60063**
Gevorkyan, U. Z. *see* **Sarafyan, V. V., 89b:60169**
Glonti, O. A. Nonlinear filtering of stochastic processes and optimal signal transmission through a feedback channel. **89e:93194**
Golin, Simon *see* **Blanchard, Ph., 89a:60179**
Gorostiza, Luis G. *see* **Bojdecki, Tomasz, 89b:60111**
Goryainov, V. B. Theorems of Lévy-Baxter type for elliptic stochastic equations. **89k:60056**
Graham, Robert (*with* Roekaerts, D.) A Nicolai map for supersymmetric quantum mechanics on Riemannian manifolds. **89c:81043**
Halanay, Aristide Periodic and almost periodic solutions to affine stochastic systems. **89f:34085**
Hanggi, P. *see* **Balakrishnan, Venkataraman; et al., 89m:82024**
Hazareesingh, L. (*with* Kannan, D.) Stochastic product integration and stochastic equations. **89a:60136**
Helmes, K. The asymptotic behaviour of the maximum likelihood estimates for a class of diffusion processes. **89c:62140**
Hermoso Carazo, A. *see* **Molina Fernández, M., 89i:62134**
Hoover, Douglas N. A characterization of adapted distribution. **89b:60095**
Hopkins, William E., Jr. Optimal stabilization of families of linear stochastic differential equations with jump coefficients and multiplicative noise. **89d:93080**
Il′chenko, A. V. Mean-square stability of nonlinear stochastic differential equations. (Ukrainian. Russian summary) **89d:93111**
Ionin, L. L. Investigation of the stability of linear stochastic systems under small Markov perturbations with almost periodic coefficients. (Russian) **89j:93133**
— (*with* Yanson, V. A.) Stabilization of dynamical systems with periodic coefficients by a diffusion process. (Russian) **89k:93219**
Jauslin, H. R. Nondifferentiable potentials for nonequilibrium steady states. **89f:82027**
Jumarie, Guy Simple general method to analyse the moment stability and sensitivity of nonlinear stochastic systems with or without delay. **89d:93112**
Kallianpur, G. *see* **Christensen, S. K., 89c:60070**
Kannan, D. *see* **Hazareesingh, L., 89a:60136**
Karatzas, Ioannis (*with* Shreve, Steven E.) ★ Brownian motion and stochastic calculus. **89c:60096**
Kifer, Yuri *see* **Eizenberg, Alexander, 89d:58109**
Kłosek-Dygas, M. M. (*with* Matkowsky, B. J.; Schuss, Z.) A first passage time approach to stochastic stability of nonlinear oscillators. **89i:93120**
Korenevskiĭ, D. G. A coefficient criterion for the absolute (with respect to nonlinearity) mean-square stability of stochastic automatic control systems with nonlinear feedback. (Russian) **89j:93134**
— (*with* Mitropol′skiĭ, Yu. A.) Matrix algebraic criteria and sufficient conditions for the asymptotic stability and boundedness with probability one of the solutions of linear singularly perturbed stochastic Itô equations. **89b:34138**
Kotani, Shinichi Problems of one-dimensional random Schrödinger operators. **89d:34096**
Kunita, Hiroshi Stochastic flows and stochastic partial differential equations. **89g:60194**
Kusuoka, Shigeo (*with* Stroock, Daniel W.) Applications of the Malliavin calculus. III. **89c:60093**
— Some remarks on Getzler's degree theorem. **89c:58120**
Ladde, G. S. (*with* Seikkala, Seppo) On sample solutions of random initial value and Nicoletti boundary value problems. **89a:34065**
Léandre, Rémi Calcul des variations sur un brownien subordonné. [Calculus of variations on a subordinate Brownian motion] **89m:60201**
Leizarowitz, Arie Estimates and exact expressions for Lyapunov exponents of stochastic linear differential equations. **89k:34104**
Levit, M. V. Analysis of the stability of linear systems with parametric random perturbation on the basis of estimates of second moments. (Russian) (*see* **89g:00008**)
Lo, James Ting Ho Bilinearization of stochastic systems. **89d:93091**
Łuczka, J. Relaxation problem with a quadratic noise: analysis. **89a:82018**
Maass, Wolfgang Manfred On the construction of Lyapunov functions for a class of evolution equations. **89m:34068**
Marcus, Moshe M. (*with* Mizel, Victor J.) Dynamical behavior under random perturbation of materials with selective recall. **89a:73035**
Markus, Lawrence (*with* Weerasinghe, A.) Nonlinear stochastic oscillators. **89b:34139**
— (*with* Weerasinghe, A.) Stochastic oscillators. **89c:34061**
Martynyuk, A. A. A stochastic matrix Lyapunov function and its application. **89c:34062**
Maslowski, Bohdan On a certain type of stability of nontrivial solutions of stochastic differential equations. **89i:93121**
Matkowsky, B. J. *see* **Kłosek-Dygas, M. M.; et al., 89i:93120**
Mayster, Penka Stability of the solutions of stochastic equations with integrals on martingales and random measures. **89b:34140**
Meyer, P.-A. *see* **Zheng, Wei An, 89f:81053**
Michel, Dominique *see* **Chaleyat-Maurel, M., 89f:60044**
Mikami, Toshio Asymptotic expansions of the invariant density of a Markov process with a small parameter. (French summary) **89m:60168**
Mitoma, Itaru Generalized Ornstein-Uhlenbeck process having a characteristic operator with polynomial coefficients. **89c:60058**
Mitropol′skiĭ, Yu. A. *see* **Korenevskiĭ, D. G., 89b:34138**
Miyahara, Yoshio A theorem of the stability of nonlinear filtering systems. **89d:93102**
Mizel, Victor J. *see* **Marcus, Moshe M., 89a:73035**
Molina Fernández, M. (*with* Hermoso Carazo, A.) Sequential inference in diffusion branching processes. (Spanish. English summary) **89i:62134**
Myjak, J. *see* **De Blasi, F. S., 89b:34137**
Nakonechnyĭ, A. G. (*with* Navrodskiĭ, V. A.) On minimax estimates for functionals of solutions of stochastic differential equations. (Russian) (Not in MR)

Narita, Kiyomasa Some probabilistic problems and singular perturbations in van der Pol equation. (Japanese summary) **89e:34097**
Navrodskiĭ, V. A. *see* **Nakonechnyĭ, A. G.**, (Not in MR)
Neumann, Robert Klaus Numerische Untersuchung von Funktionen zufälliger Matrizen. II. Restgliedabschätzung und Beispiele. [Numerical investigation of functions of random matrices. II. Estimation of the remainder and examples] **89h:65233**
Nguyen Dong Anh Investigation of the effect of different types of periodic and random excitations on a van der Pol system. (Russian) **89d:34097**
Norris, James Simplified Malliavin calculus. **89f:60058**
— What is stochastic calculus? (*see* **89k:60003**)
Ocone, Daniel Existence of densities for statistics in the cubic sensor problem. **89c:93074**
Ouknine, Y. Généralisation d'un lemme de S. Nakao et applications. (English summary) [Generalization of a lemma of S. Nakao and applications] **89h:60073**
Pantić, Dražen Stochastic calculus on distorted Brownian motion. **89d:60148**
Pardoux, É. Grossissement d'une filtration et retournement du temps d'une diffusion. [Enlargement of a filtration and time reversal of a diffusion] **89e:60150**
Petrov, O. A. (*with* Fomin, V. N.) Linear optimal estimation of nonstationary random processes and factorization of correlation operators. **89j:93109**
Piccioni, M. *see* **Germani, A., 89f:60063**
Ponosov, A. V. The weak compactness of measures that correspond to the solutions of the Cauchy problem for stochastic differential equations. (Russian) (*see* **89b:00008**)
Popescu, Vasile (*with* Răşcanu, A.) On bounded deterministic and stochastic integral contractors. **89j:34094**
Răşcanu, A. *see* **Popescu, Vasile, 89j:34094**
Riganti, Riccardo Evolution of the *n*th probability density and entropy function in stochastic systems. **89e:93182**
Roekaerts, D. *see* **Graham, Robert, 89c:81043**
Šadurskis, Kārlis Oscillations in a neighborhood of statistical equilibrium in quasilinear functional-differential equations. (Russian) **89m:34094**
Sarafyan, V. V. (*with* Gevorkyan, U. Z.) Markov processes and boundary value problems for a class of systems of differential equations. (Russian. Armenian summary) **89b:60169**
Schmidt, Wolfgang Michael *see* **Engelbert, H. J., 89b:60184**
Schuss, Z. *see* **Kłosek-Dygas, M. M.; et al., 89i:93120**
Schwartz, Laurent Calcul infinitésimal stochastique. [Stochastic infinitesimal calculus] **89g:60180**
Seikkala, Seppo *see* **Ladde, G. S., 89a:34065**
Shreve, Steven E. *see* **Karatzas, Ioannis, 89c:60096**
Situ, Rong On strong solution, uniqueness, stability and comparison theorems for a stochastic system with Poisson jumps. **89g:60159**
Skokan, Václav Generalization of the Girsanov theorem. **89e:60095**
Skorokhod, A. V. Stochastic processes in infinite-dimensional spaces. (Russian) **89e:60081**
Stanzhitskiĭ, A. N. (*with* Sukhomlin, A. A.) A numerical-analytic method for systems with random perturbation. (Russian) **89i:65079**
Stroock, Daniel W. *see* **Kusuoka, Shigeo, 89c:60093**
Sukhomlin, A. A. *see* **Stanzhitskiĭ, A. N., 89i:65079**
Tamura, Yozo Free energy and the convergence of distributions of diffusion processes of McKean type. **89e:60151**
Van den Broeck, C. *see* **Balakrishnan, Venkataraman; et al., 89m:82024**
Veres, S. Asymptotic distribution of maximum likelihood estimators for nonstationary autoregressive processes. (Russian summary) **89d:62088**
Vilela Mendes, Rui Euclidean gauge fields in four dimensions from stochastic differential equations. **89e:81131**
Wedig, W. Parameter identification of road spectra and nonlinear oscillators. **89i:93117**
Weerasinghe, A. *see* **Markus, Lawrence, 89b:34139** *and* **89c:34061**
Xia, Ning Mao The density function of the solution of a two-point boundary value problem containing small stochastic processes. **89d:34042**
Xie, W.-C. *see* **Ariaratnam, S. T., 89m:93087**
Yanson, V. A. *see* **Ionin, L. L., 89k:93219**
Zabczyk, J. Exit problem for infinite-dimensional systems. **89b:60147**
Zheng, Wei An (*with* Meyer, P.-A.) Correction: "Some results in 'stochastic mechanics'" [in *Seminar on Probability, XVIII*, 223–244, Lecture Notes in Math., 1059, Springer, Berlin, 1984; MR 86c:81026]. (French) **89f:81053**

60H15 Stochastic partial differential equations [see also 35R60]

Balakrishnan, A. V. A random Schroedinger equation: white noise model. **89a:60147**
Cannarsa, Piermarco (*with* Vespri, Vincenzo) Existence and uniqueness results for a nonlinear stochastic partial differential equation. **89g:60191**
Carmona, René (*with* Nualart, D.) Random nonlinear wave equations: propagation of singularities. **89k:60081**
Christensen, S. K. (*with* Kallianpur, G.) Stochastic differential equations for neuronal behavior. **89c:60070**
Curtain, R. F. (*with* Kotelenez, Peter) Stochastic bilinear spectral systems. **89b:60145**
Dorogovtsev, A. Ya. (*with* Ivasishen, S. D.; Kukush, A. G.) On the asymptotic behaviour of the linear stochastic heat equation solutions. **89g:60192**
— (*with* Kukush, A. G.) Asymptotic behavior of the solution of the Cauchy problem for a stochastic equation of parabolic type. **89e:60117**
Fichtner, K.-H. (*with* Schmidt, M.) Approximation of a continuous system by point systems. **89f:60062**
Frolov, F. F. Boundary value problems for systems of stochastic partial differential equations. **89k:60082**
Fujita, Yasuhiro Linear stochastic partial differential equations with constant coefficients. **89j:60078**
Gątarek, D. I. A note on convergence of parabolic Itô equations. **89i:60129**
Germani, A. (*with* Piccioni, M.) Semidiscretization of stochastic partial differential equations on $\mathbf{R}^d$ by a finite-element technique. **89f:60063**
Gorodniĭ, M. F. Limit behavior of the solutions of a stochastic difference equation in Hilbert space. **89m:60140**
Grecksch, W. ★ Stochastische Evolutionsgleichungen und deren Steuerung. (German) [Stochastic evolution equations and their control] **89c:60071**
Grigelionis, B. (*with* Mikulevičius, R.) Weak solutions of the stochastic evolution equations and invariance principles. **89a:60148**
Hanzon, B. A differential-geometric approach to approximate nonlinear filtering. **89j:60079**
Il'yasov, Ya. Sh. (*with* Komech, A. I.) Girsanov's theorem and ergodic properties of statistical solutions of nonlinear parabolic equations. (Russian. English summary) **89g:60193**
Ivasishen, S. D. *see* **Dorogovtsev, A. Ya.; et al., 89g:60192**
Kallianpur, G. (*with* Pérez-Abreu, Víctor) Stochastic evolution equations driven by nuclear-space-valued martingales. **89b:60146**
— *see also* **Christensen, S. K., 89c:60070**
Kolomiets, V. G. Averaging of stochastic partial differential equations. (Russian) **89d:60109**
Komech, A. I. *see* **Il'yasov, Ya. Sh., 89g:60193**
Konno, N. (*with* Shiga, Tokuzo) Stochastic partial differential equations for some measure-valued diffusions. **89i:60130**
Kotelenez, Peter *see* **Curtain, R. F., 89b:60145**
Kukush, A. G. *see* **Dorogovtsev, A. Ya., 89e:60117** *and* **89g:60192**
Kunita, Hiroshi Stochastic flows and stochastic partial differential equations. **89g:60194**
— A limit theorem for stochastic partial differential equations. **89d:60110**
Manthey, R. On the Cauchy problem for reaction-diffusion equations with white noise. **89j:60080**
Mikulevičius, R. *see* **Grigelionis, B., 89a:60148**
Mitoma, Itaru An evolution operator of the Feynman-Kac type. **89e:60118**
Nualart, D. *see* **Carmona, René, 89k:60081**
Pérez-Abreu, Víctor *see* **Kallianpur, G., 89b:60146**
Piccioni, M. *see* **Germani, A., 89f:60063**
Schmidt, M. *see* **Fichtner, K.-H., 89f:60062**
Shiga, Tokuzo *see* **Konno, N., 89i:60130**
Taylor, Thomas J. On the small time behavior of the nonlinear estimation problem for finite bandwidth signals. **89g:60195**
Tubaro, Luciano Some results on stochastic partial differential equations by the stochastic characteristics method. **89g:60196**
Tudor, Constantin On stochastic evolution equations driven by continuous semimartingales. **89d:60111**
Vespri, Vincenzo *see* **Cannarsa, Piermarco, 89g:60191**
Zabczyk, J. Exit problem for infinite-dimensional systems. **89b:60147**

Items with secondary classifications in 60H15

Adomian, George A. Analytic solutions for nonlinear equations. **89d:34010**
Bellomo, N. (*with* de Socio, L.; Monaco, R.) Random heat equation: solutions by the stochastic adaptive interpolation method. **89m:35222**
Bojdecki, Tomasz (*with* Gorostiza, Luis G.) Inhomogeneous infinite-dimensional Langevin equations. **89b:60111**
Chaleyat-Maurel, M. Continuity in nonlinear filtering. Some different approaches. **89d:93100**
Chechetkin, V. R. (*with* Lutovinov, V. S.) Perturbation theory for continuous stochastic equations. **89g:82026**
Cherkasov, I. D. Transformation of one-dimensional diffusion fields on the plane. (Russian) **89j:60067**
Chueshov, I. D. Construction of solutions of a stochastic modified system of von Kármán equations. (Russian) **89h:35282**
Cohn, Stephen E. (*with* Dee, Dick P.) Observability of discretized partial differential equations. **89i:93012**
Davis, M. H. A. Nonlinear filtering and stochastic flows. **89h:60067**
Day, Martin V. Boundary local time and small parameter exit problems with characteristic boundaries. **89m:60185**
Dee, Dick P. *see* **Cohn, Stephen E., 89i:93012**
Dorogovtsev, A. Ya. Asymptotic behavior of the solutions of the Cauchy problem for an abstract stochastic differential equation. (Russian) **89g:60183**
Freĭdlin, M. I. Random perturbations of reaction-diffusion equations: the quasideterministic approximation. **89f:35110**
Gaveau, Bernard Le problème de Cauchy pour une équation d'ondes stochastique. (English summary) [The Cauchy problem for a stochastic wave equation] **89m:60132**
Gorostiza, Luis G. Limit theorems for supercritical branching random fields with immigration. **89c:60099**
— *see also* **Bojdecki, Tomasz, 89b:60111**
Haussmann, U. G. Nonlinear filtering—the degenerate case. **89e:93196**
Hazewinkel, M. Lie algebraic methods in filtering and identification. **89g:93098a**
— Lie algebraic method in filtering and identification. **89g:93098b**
Hida, Takeyuki Generalized Gaussian measures. **89h:60137**
Huang, Hai (*with* Kushner, Harold J.) Weak convergence and approximations for partial differential equations with stochastic coefficients. **89a:60183**
Imaĭkin, V. M. Exponential estimates for the probabilities of large deviations for the solutions of a nonlinear parabolic stochastic equation. **89e:60062**
— (*with* Komech, A. I.) Large deviations of solutions of nonlinear stochastic equations. (Russian. English summary) **89m:60062**
Komech, A. I. *see* **Imaĭkin, V. M., 89m:60062**
Kotelenez, Peter A maximal inequality for stochastic convolution integrals on Hilbert spaces and space-time regularity of linear stochastic partial differential equations. **89h:60087**
— High density limit theorems for nonlinear chemical reactions with diffusion. **89g:60122**
Kushner, Harold J. *see* **Huang, Hai, 89a:60183**
Kusuoka, Shigeo (*with* Stroock, Daniel W.) Long time estimates for the heat kernel associated with a uniformly subelliptic symmetric second order operator. **89b:35022**
Lutovinov, V. S. *see* **Chechetkin, V. R., 89g:82026**
Mamedov, M. I. *see* **Zgurovskiĭ, M. Z.; et al., 89g:93103**
Mestechkina, T. M. The Kolmogorov equation for the solution of the Cauchy problem of a class of linear evolution equations. **89f:35095**
Monaco, R. *see* **Bellomo, N.; et al., 89m:35222**
Ocone, Daniel Application of Wiener space analysis to nonlinear filtering. **89d:60099**
— Stochastic calculus of variations for stochastic partial differential equations. **89i:60119**

Oelschläger, Karl Homogenization of a diffusion process in a divergence-free random field. **89i:60108**

Papanicolaou, George C. Waves in one-dimensional random media. **89k:82057**

Schaumlöffel, Kay-Uwe White noise in space and time and the cylindrical Wiener process. **89g:60145**

Selin, A. N. *see* **Zgurovskiĭ, M. Z.; et al., 89g:93103**

Serrano, Sergio E. (*with* Unny, T. E.) Boundary element solution of the two-dimensional groundwater flow equation with stochastic free surface boundary condition. **89a:76007**

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Stroock, Daniel W. *see* **Kusuoka, Shigeo, 89b:35022**

Tenno, R. Approximation of the optimal controls of a bilinear diffusion process. (Russian) **89g:93113**

Tran Quyet Thang Cauchy's problem for second order parabolic equations with random parameter. **89k:35257**

Tuckwell, Henry C. Perturbative analysis of random nonlinear reaction-diffusion systems. **89e:35149**

Tudor, Constantin A stopped Doob inequality for stochastic integrals with Volterra integrands. **89f:60057**

Unny, T. E. *see* **Serrano, Sergio E., 89a:76007**

Zgurovskiĭ, M. Z. (*with* Selin, A. N.; Mamedov, M. I.) Estimation of the states and parameters of atmospheric processes with the use of a combined approach. **89g:93103**

Zhang, Weijian Analytical solutions of a class of multidimensional Fokker-Planck equations. **89j:35040**

60H20 Stochastic integral equations

Athreya, K. B. (*with* Kliemann, W.; Koch, Giorgio) On sequential construction of solutions of stochastic differential equations with jump terms. **89g:60197**

Bucklew, James A. (*with* Cambanis, Stamatis) Estimating random integrals from noisy observations: sampling designs and their performance. **89d:60112**

Cahlon, B. Existence theorems of random solutions to stochastic functional integral equations. **89j:60081**

Cambanis, Stamatis *see* **Bucklew, James A., 89d:60112**

Da Prato, G. Nonlinear stochastic evolution equations in Hilbert spaces. **89a:60149**

— (*with* Kwapień, S.; Zabczyk, J.) Regularity of solutions of linear stochastic equations in Hilbert spaces. **89b:60148**

— (*with* Zabczyk, J.) A note on semilinear stochastic equations. **89b:60149**

Ding, Xie Ping Nonlinear stochastic operators and solutions of systems of integral equations. (Chinese) **89d:60113**

Dorogovtsev, A. Ya. Existence of periodic solutions of an abstractly stochastic equation. Asymptotic periodicity of the solutions of the Cauchy problem. (Russian) **89e:60119**

Gikhman, Il. I. (*with* Mestechkina, T. M.) The Cauchy problem for a parabolic equation with coefficients of "white noise" type. (Russian) **89b:60150**

Janković, Svetlana Some limit theorems for one type of stochastic integro-differential equations. **89e:60120**

Kim, Chon Ul Some problems on approximate solving of stochastic integral equation with jump component. (Korean. English summary) **89k:60083**

Klepikov, V. N. Action functional for a family of diffusion fields in the plane. (Russian) **89a:60150**

Kliemann, W. *see* **Athreya, K. B.; et al., 89g:60197**

Koch, Giorgio *see* **Athreya, K. B.; et al., 89g:60197**

Kolodiĭ, A. M. A limit theorem for a class of stochastic integral equations. (Russian) **89b:60151**

— Continuous solutions of Volterra integral equations with curvilinear stochastic integrals. (Russian) **89m:60141**

— On the existence of regular solutions of stochastic Itô-Volterra equations. (Russian) **89j:60082**

Korenevskiĭ, D. G. Algebraic criteria for asymptotic stability with probability 1 of the solutions of a singularly degenerate system of linear integro-differential stochastic stationary Itô equations. (Russian) **89c:60072**

Kwapień, S. *see* **Da Prato, G.; et al., 89b:60148**

Lax, Melvin D. Approximating the solutions of random Fredholm integral equations. **89g:60198**

Lewin, Marica On the existence of a solution to an Itô-Volterra equation. **89a:60151**

— On the existence of a weak solution to an equation of Volterra-Skorohod type. **89a:60152**

Mestechkina, T. M. *see* **Gikhman, Il. I., 89b:60150**

Murge, M. G. (*with* Pachpatte, B. G.) On a generalized Itô type stochastic hereditary equation. **89i:60131**

Pachpatte, B. G. *see* **Murge, M. G., 89i:60131**

Pisanets, S. I. A limit theorem for stochastic differential equations in $\mathbf{R}^m$. (Russian) **89b:60152**

Rodkina, A. E. The averaging principle for stochastic functional-differential equations. **89m:60142**

Sarafyan, V. V. (*with* Skorokhod, A. V.) Dynamical systems with fast switchings. (Russian) **89f:60064**

Shevlyakov, A. Yu. On stochastic integral equations. (Russian) **89f:60065**

Shurko, G. K. Convergence of the solutions of a class of two-parameter stochastic integral equations. (Russian) **89j:60083**

Skorokhod, A. V. *see* **Sarafyan, V. V., 89f:60064**

Szynal, D. (*with* Wędrychowicz, S.) On solutions of a stochastic integral equation of the Volterra type with applications for chemotherapy. **89m:60143**

Tudor, Constantin Some properties of mild solutions of delay stochastic evolution equations. **89k:60084**

— On stochastic functional-differential equations. **89b:60153**

— On weak solutions of Volterra stochastic equations. (Italian summary) **89g:60199**

— (*with* Tudor, M.) On approximation of solutions for stochastic delay equations. **89b:60154**

— On Volterra equations driven by semimartingales. **89g:60200**

Tudor, M. *see* **Tudor, Constantin, 89b:60154**

Vârsan, C. On the regularity of the probabilities associated with a class of stochastic equations with delay. **89m:60144**

Wędrychowicz, S. *see* **Szynal, D., 89m:60143**

Zabczyk, J. *see* **Da Prato, G.; et al., 89b:60148** *and* **89b:60149**

Zanzotto, Pio Andrea Application du théorème de Scorza Dragoni aux équations différentielles stochastiques. (English summary) [Application of Scorza Dragoni's theorem to stochastic differential equations] **89d:60114**

Items with secondary classifications in 60H20

Balakrishnan, A. V. On a class of stochastic differential equations which do not satisfy Lipschitz conditions. **89b:60136**

Berger, Marc A. A Trotter product formula for random matrices. **89b:60049**

Christensen, S. K. (*with* Kallianpur, G.) Stochastic differential equations for neuronal behavior. **89c:60070**

Kallianpur, G. *see* **Christensen, S. K., 89c:60070**

Kim, Chon Ul On the approximate solving of stochastic integral equation with jump component. (Korean. English summary) **89d:65110**

Kim, Jong In *see* **Li, Hyong Won,** (Not in MR)

Léandre, Rémi Intégration dans la fibre associée à une diffusion dégénérée. [Integration in the fiber associated with a degenerate diffusion] **89g:60247**

Li, Hyong Won (*with* Kim, Jong In) Statistical optimization of the normal linear system under the action of non-Gaussian stochastic internal noise. (Korean. English summary) (Not in MR)

Mackevičius, Vigirdas S^p stability of solutions of symmetric stochastic differential equations with discontinuous driving semimartingales. (French summary) **89g:60187**

Shaĭkhet, L. E. Optimal control of some hyperbolic and stochastic integral equations. (Russian) **89a:93060**

Shashiashvili, M. A. On the variation of the difference of singular components in the Skorokhod problem and on stochastic differential systems in a half-space. **89m:60112**

Yatsenko, V. A. Partial decomposition of stochastic systems. (Russian) (Not in MR)

60H25 Random operators and equations

Adamenko, O. A. Existence of a stationary solution of a difference stochastic equation in a Hilbert space. (Ukrainian. Russian summary) **89h:60099**

Avgerinos, Evgenios P. (*with* Papageorgiou, Nikolaos S.) Random nonlinear evolution inclusions in reflexive Banach spaces. **89i:60132**

Bocşan, Gheorghe ★ Random sets and related topics. **89k:60085**

Carmona, René Exercises for a book on random potentials. **89f:60066**

Ding, Xie Ping Solutions for a system of random operator equations and some applications. **89a:60153**

Dorogovtsev, A. A. A representation of strong Gaussian random operators. (Russian) **89j:60084**

Gol′dsheĭd, I. Ya. (*with* Margulis, G. A.) The condition of simplicity for the spectrum of Lyapunov exponents. (Russian) **89c:60073**

Golitsyna, A. G. (*with* Molchanov, S. A.) A multidimensional model of rare random scatterers. (Russian) **89f:60067**

Grenkova, L. N. (*with* Molchanov, S. A.) Lifshits asymptotics for one-dimensional random operators. **89m:60145**

Hadžić, O. On random best approximations. (Serbo-Croatian summary) **89a:60154**

Joshi, Mohan Theory of monotone operators and random operator equations. **89f:60068**

Kaganova, E. M. The Lyapunov exponent of the product of random operators. **89j:60085**

Kirillov, P. V. A construction for the investigation of random equations. (Russian) **89k:60086**

Kirsch, Werner Estimates on the difference between succeeding eigenvalues and Lifshitz tails for random Schrödinger operators. **89g:60201**

Kotani, Shinichi One-dimensional random Schrödinger operators and Herglotz functions. **89h:60100**

— Absolutely continuous spectrum of one-dimensional random Schrödinger operators and Hamiltonian systems. **89g:60202**

— (*with* Ushiroya, N.) One-dimensional Schrödinger operators with random decaying potentials. **89f:60069**

— (*with* Krishna, M.) Almost periodicity of some random potentials. **89i:60133**

Krishna, M. *see* **Kotani, Shinichi, 89i:60133**

Ladde, G. S. (*with* Sambandham, M.) Variation of constants formula and error estimates to stochastic difference equations. **89j:60086**

Maier, Robert The density of states of random Schrödinger operators. **89g:60203**

Mao, Xue Rong A note on random fixed point theorem in probabilistic analysis. **89i:60134**

Margulis, G. A. *see* **Gol′dsheĭd, I. Ya., 89c:60073**

Minami, Nariyuki Schrödinger operator with potential which is the derivative of a temporally homogeneous Lévy process. **89m:60146**

Molchanov, S. A. *see* **Golitsyna, A. G., 89f:60067** *and* **Grenkova, L. N., 89m:60145**

Morita, Takehiko A fluctuation theorem associated with Cauchy problems for stationary random operators. **89f:60070**

— A fluctuation theorem for solutions of certain random evolution equations. **89g:60204**

Narita, Kiyomasa Probabilistic analysis in nonlinear differential equations with random disturbances and interactions. (Japanese summary) **89b:60155**

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Nguyen Quy Hy (*with* Nguyen Ngoc Cuong) On the probabilistic properties of the solution of random integral equations. (Polish summary) **89h:60101**

Papageorgiou, Nikolaos S. Random functional-differential inclusions with nonconvex right-hand side in a Banach space. **89h:60102**

— Random fixed points and random differential inclusions. **89e:60121**

— On measurable multifunctions with stochastic domain. **89g:60205**

— *see also* **Avgerinos, Evgenios P., 89i:60132**

Pastur, L. A. Spectral theory of random selfadjoint operators. (Russian) **89f:60071**

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Skorokhod, T. A. Limit of a sequence of bounded random linear operators. (Russian) **89d:60115**

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Watanabe, Hisao Averaging and fluctuations for parabolic equations with rapidly oscillating random coefficients. **89m:60147**

Items with secondary classifications in 60H25

Babanin, A. S. *see* **Girko, V. L., 89k:62072**
Bobrik, R. V. Mean-square stability of solutions of a system of linear differential equations with Gaussian coefficients. (Russian) **89m:93088**
Chow, P. L. Travel-time problems for waves in random media. **89g:35122**
Chung, Kai Lai (*with* Hsu, Pei) Gauge theorem for the Neumann problem. **89i:60157**
Đặng Hùng Thắng Random operators in Banach spaces. **89d:60004**
Ding, Xie Ping Existence and comparison results of solutions for nonlinear random integral and differential equations relative to weak topology. **89j:45003**
Elezović, Neven Cylindrical measures on tensor products of Banach spaces and random linear operators. **89a:60015**
Girko, V. L. (*with* Babanin, A. S.) A G_8-estimate for the solutions of empirical systems of linear algebraic equations. (Russian) **89k:62072**
Hahn, Siegfried Über zufällige Fixpunkte bei stetigen zufälligen Operatoren in metrischen Vektorräumen. (Serbo-Croatian summary) [On random fixed points for continuous random operators in metric vector spaces] **89d:47124**
— Random fixed point theorems for random upper semicontinuous multivalued operators. (Serbo-Croatian summary) **89d:47125**
Hegerfeldt, Gerhard C. (*with* Schulze, Henrik) Noncommutative cumulants for stochastic differential equations and for generalized Dyson series. **89h:82011**
Hsu, Pei *see* **Chung, Kai Lai, 89i:60157**
Joshi, Mohan Nonlinear random equations involving completely closed operators. **89e:47089**
Kalniņa, Dace (*with* Tsar′kova, V. N.) Random perturbations of the parameters of linear iterations. (Russian) **89e:39007**
Kozlov, S. M. Spectral asymptotics of random operators. **89h:35248**
Lax, Melvin D. Approximating the solutions of random Fredholm integral equations. **89g:60198**
Lin, Tzu-Chu Random approximations and random fixed point theorems for non-self-maps. **89i:47109**
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Matveev, An. A. Investigation of the stability of the solutions of second-order linear differential equations under small random perturbations. (Russian) **89e:93212**
Meyer, P.-A. Quelques remarques au sujet du calcul stochastique sur l'espace de Fock. [Some remarks on the subject of stochastic calculus on the Fock space] **89g:81019**
Parthasarathy, Kalyanapuram Rangachari Some additional remarks on Fock space stochastic calculus. **89g:81018**
Pyasetskaya, T. E. Wave propagation in a variable medium with random inhomogeneities. (Russian) **89j:35134**
Schulze, Henrik *see* **Hegerfeldt, Gerhard C., 89h:82011**
Tollar, Eric S. A characterization of the gamma distribution from a random difference equation. **89a:62040**
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Ugowski, Henryk On systems of random ordinary differential equations of the first order. **89e:34098**
Zadorozhniĭ, V. G. Calculation of the moments of the solution of a linear inhomogeneous stochastic system of differential equations. (Russian) **89j:34086**
Zhang, Shi Sheng Probabilistic normed linear spaces and stochastic operators. (Chinese) **89e:47058**
Zhdanok, T. A. Fixed point theorem for measurable field of operators with an application to random differential equation. **89h:47095**

60H99 None of the above, but in this section

Airault, H. (*with* Malliavin, Paul) Intégration géométrique sur l'espace de Wiener. (English summary) [Geometric integration on the Wiener space] **89f:60072**
Aliev, Sh. Sufficient conditions for the existence of a node for a class of stochastic integro-differential equations of Itô type. (Russian) **89e:60123**
Ben Arous, G. Développement asymptotique du noyau de la chaleur hypoelliptique hors du cut-locus. [Asymptotic expansion of the hypoelliptic heat kernel outside of the cut-locus] **89k:60087**
Buche, A. B. On non-Markov functional equations. (*see* **89a:60006**)
Cruzeiro, Ana Bela Estimations capacitaires sur l'espace de Wiener. I. (English summary) [Capacity estimates on the Wiener space. I] **89a:60155**
Ito, H. M. Multiplication formulas of orthogonal polynomials of boson field operators: derivation based on the generalized phase-space method. **89e:60124**
Lépingle, D. (*with* Marois, C.) Équations différentielles stochastiques multivoques unidimensionnelles. [One-dimensional multivalued stochastic differential equations] **89e:60125**
Lozanov, Zagorka (*with* Pilipović, Stevan) On some classes of generalized random linear functionals. **89e:60126**
Malliavin, Paul *see* **Airault, H., 89f:60072**
Marois, C. *see* **Lépingle, D., 89e:60125**
Matveev, An. A. *see* **Tsar′kova, V. N., 89e:60128**
Mehta, Ghanshyam *see* **Tarafdar, E., 89e:60127**
Morozan, T. Periodic solutions of stochastic discrete-time systems. **89a:60156**
Pilipović, Stevan *see* **Lozanov, Zagorka, 89e:60126**
Skorokhod, T. A. On the mixed product of stochastic semigroups generated by Wiener processes. **89i:60135**
Stroock, Daniel W. Homogeneous chaos revisited. **89h:60103**
Tarafdar, E. (*with* Mehta, Ghanshyam) Carathéodory selections, random fixed-point theorems and existence of equilibria. (Serbo-Croatian summary) **89e:60127**
Tsar′kova, V. N. (*with* Matveev, An. A.) Convergence of linear stochastic iterations. (Russian) **89e:60128**

Items with secondary classifications in 60H99

Albeverio, S. (*with* Høegh-Krohn, R.; Holden, Helge) Stochastic multiplicative measures, generalized Markov semigroups, and group-valued stochastic processes and fields. **89k:60055**
Arai, Asao On dimensional reduction of functional measures. **89j:28002**
Behn, U. *see* **Teubel, A.; et al., 89f:60055**
Bulychëv, V. A. (*with* Frolov, F. F.) Boundary value problems for generalized differential equations. **89h:35360**
Bulychev, Yu. G. (*with* Taran, V. N.; Khutortsev, V. V.) Stochastic semigroups of operators for space-time filtering. (Not in MR)
Butsan, G. P. (*with* Kozachenko, M. Yu.) A limit theorem for parametric stochastic operator systems. **89e:60013**
Cai, Guo Qiang (*with* Lin, Y. K.) On exact stationary solutions of equivalent nonlinear stochastic systems. **89i:70038**
Chani, A. S. Integral representation of the exponential product of stochastic semigroups. (Russian) **89a:60170**
Del Grosso, G. (*with* Marra, R.) Girsanov and Feynman-Kac formulas in the discrete stochastic mechanics. **89b:81051**
Duncan, T. E. Explicit solutions for an estimation problem in manifolds associated with Lie groups. **89j:58142**
Esposito, Raffaele (*with* Marra, R.; Pulvirenti, Mario; Sciarretta, C.) A stochastic Lagrangian picture for the three-dimensional Navier-Stokes equation. **89k:35181**
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Gorodniĭ, M. F. Limit behavior of the solutions of a stochastic difference equation in a Banach space. (Russian) **89g:60121**
Hakim-Dowek, M. (*with* Lépingle, D.) L'exponentielle stochastique des groupes de Lie. [The stochastic exponential of Lie groups] **89h:58210**
Halanay, Aristide (*with* Tudor, Constantin; Morozan, T.) Tracking almost periodic signals under white noise perturbations. **89d:49016**
Hida, Takeyuki (*with* Saito, Kimiaki) White noise analysis and the Levy Laplacian. **89m:60092**
— (*with* Potthoff, J.; Streit, L.) Dirichlet forms and white noise analysis. **89e:60105**
Høegh-Krohn, R. *see* **Albeverio, S.; et al., 89k:60055**
Holden, Helge *see* **Albeverio, S.; et al., 89k:60055**
Hsieh, Nan Jui *see* **Kuo, Hui-Hsiung, 89e:60156**
Iizuka, Masaru Weak convergence of a sequence of stochastic difference equations to a stochastic ordinary differential equation. **89b:60138**
Jefferies, Brian Perturbations of Schrödinger semigroups generated by stochastic integrals. **89g:35031**
Katznelson, Y. *see* **Malliavin, Paul, 89j:58144**
Khutortsev, V. V. *see* **Bulychev, Yu. G.; et al.,** (Not in MR)
Köhnlein, Dieter ★ Asymptotisches Verhalten von Lösungen stochastischer linearer Differenzengleichungen im $\mathbf{R}^d$. (German) [Asymptotic behavior of solutions of stochastic linear difference equations in $\mathbf{R}^d$] **89i:60049**
Kozachenko, M. Yu. *see* **Butsan, G. P., 89e:60013**
Kühnel, A. *see* **Teubel, A.; et al., 89f:60055**
Kuo, Hui-Hsiung (*with* Hsieh, Nan Jui) A generalized Itô's formula for multidimensional Brownian motions and its applications. **89e:60156**
Lépingle, D. *see* **Hakim-Dowek, M., 89h:58210**
Lin, Y. K. *see* **Cai, Guo Qiang, 89i:70038**
Malliavin, Paul (*with* Katznelson, Y.) Image des points critiques d'une application régulière. [Image of the critical points of a regular mapping] **89j:58144**
Marra, R. *see* **Del Grosso, G., 89b:81051** *and* **Esposito, Raffaele; et al., 89k:35181**
Meyer, P.-A. Calcul stochastique non commutatif. [Noncommutative stochastic calculus] **89d:60097**
Morozan, T. *see* **Halanay, Aristide; et al., 89d:49016**
Ozawa, Shin Fluctuation of spectra in random media. **89f:35160**
Parthasarathy, Kalyanapuram Rangachari (*with* Sinha, K. B.) Stop times in Fock space stochastic calculus. **89h:81072**
Potthoff, J. *see* **Hida, Takeyuki; et al., 89e:60105**
Pulvirenti, Mario *see* **Esposito, Raffaele; et al., 89k:35181**
Ruiz de Chávez, J. Espaces de Fock pour les processus de Wiener et de Poisson. [Fock spaces for Wiener and Poisson processes] **89h:60062**
Saito, Kimiaki *see* **Hida, Takeyuki, 89m:60092**
Sanz, Marta Local time for two-parameter continuous martingales with respect to the quadratic variation. **89f:60048**
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Sciarretta, C. *see* **Esposito, Raffaele; et al., 89k:35181**
Sinha, K. B. *see* **Parthasarathy, Kalyanapuram Rangachari, 89h:81072**
Streit, L. *see* **Hida, Takeyuki; et al., 89e:60105**
Sverdan, M. L. (*with* Yasinskaya, L. I.) Exponential stability of stochastic functional-differential equations under constantly acting random perturbations. (Russian. English summary) **89e:93215**
Taran, V. N. *see* **Bulychev, Yu. G.; et al.,** (Not in MR)
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Tudor, Constantin *see* **Halanay, Aristide; et al., 89d:49016**
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Yasinskaya, L. I. *see* **Sverdan, M. L., 89e:93215**

Items with secondary classifications in 60H99

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60Jxx Markov processes

Items with secondary classifications in 60Jxx

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60J05 Markov processes with discrete parameter

Accardi, Luigi (*with* Cabrera, Javier; Watson, Geoffrey S.) Some stationary Markov processes in discrete time for unit vectors. (Italian summary) **89f:60073**

Anisimov, V. V. Ergodic theorems and closeness estimates for asymptotically connected Markov processes. (Russian) **89d:60116**

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Mukherjea, Arunava *see* **Gibert, Steve, 89m:60149**

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Sokal, Alan D. *see* **Lawler, Gregory F., 89h:60105**

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Watson, Geoffrey S. *see* **Accardi, Luigi; et al., 89f:60073**

Zhou, Jian Wei *see* **Dai, Yong Long, 89a:60157**

Items with secondary classifications in 60J05

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Doignon, Jean-Paul *see* **Falmagne, Jean-Claude, 89k:92082**

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Konakov, V. D. Local limit theorems on the convergence of Markov chains to diffusion processes. (Russian) **89g:60077**

Korolyuk, V. S. The central limit theorem for additive functionals of Markov and semi-Markov processes. (Russian) **89i:60050**

Lee, Oesook *see* **Bhattacharya, Rabi N., 89i:60043**

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Tsankova, Iva P. Estimation of the order of Markov chains. I. Akaike's information criterion for the case of discrete-time Markov processes. **89g:62143**

Willis, G. A. The boundary associated with a probability measure on a group. **89m:60183**

Zhdanok, A. I. *see* **Butsan, G. P.; et al., 89g:60224**

60J10 Markov chains with discrete parameter

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— *see also* **Lal, Ram, 89k:60091**

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Choi, Byoung Seon *see* **Csiszár, I.; et al., 89c:60074**

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Csibi, S. More on the stability of a data packet flow embedded randomly into a partially active, scheduled speech packet flow. (Russian summary) **89d:60120**

Csiszár, I. (*with* Cover, Thomas M.; Choi, Byoung Seon) Conditional limit theorems under Markov conditioning. **89c:60074**

Daley, D. J. *see* **Chernick, M. R.; et al., 89j:60090**

Deshmukh, S. R. *see* **Adke, S. R., 89k:60090**

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Gibson, Diana (*with* Seneta, E.) Monotone infinite stochastic matrices and their augmented truncations. **89h:60110**

Gubeladze, A. K. Finite-valued stationary Markov chains. (Russian) **89j:60091**

He, Wen Qing *see* **Chen, Yong Yi; et al., 89m:60153**

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Kalpazidou, Sofia On the representation of finite multiple Markov chains by weighted circuits. **89g:60210**

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Littlejohn, R. P. *see* **Chernick, M. R.; et al., 89j:60090**

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Pushkin, S. G. *see* **Anisimov, V. V., 89b:60157**

Puterman, Martin L. *see* **van Dijk, Nico M., 89h:60108**

Renshaw, Eric The discrete Uhlenbeck-Ornstein process. **89e:60133**

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Searls, Donald T. An algorithm for improved matrix inversion for Markov chain applications. **89j:60093**

Seneta, E. Perturbation of the stationary distribution measured by ergodicity coefficients. **89c:60076**

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Shiffrin, Richard (*with* Thompson, Maynard) Moments of transition-additive random variables defined on finite, regenerative random processes. **89j:60094**

Shur, M. G. Ratio limit theorems. (Russian) **89j:60100a**

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Smirnov, S. N. The recurrence of an absolute difference chain. (Russian) **89d:60121**

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Thompson, Maynard *see* **Shiffrin, Richard**, **89j:60094**
Thorisson, Hermann Future independent times and Markov chains. **89b:60160**
Tsertsvadze, G. N. The aggregation of Markov chains. (Russian. English and Georgian summaries) **89i:60138**
Variakojis, L. The maximum length of a series of "successes" in a countable Markov chain. (Russian. English and Lithuanian summaries) **89j:60096**
(Wesołowski, Jacek) *see* **Iosifescu, Marius**, **89m:60155**
You, Chuan Hua *see* **Chen, Yong Yi; et al.**, **89m:60153**

Items with secondary classifications in 60J10

Arratia, R. (*with* Morris, Pricilla; Waterman, Michael S.) Stochastic Scrabble: large deviations for sequences with scores. **89h:60042**
Bokuchava, I. V. (*with* Kvatadze, Z. A.; Shervashidze, T. L.) On limit theorems for random vectors controlled by a Markov chain. **89e:60040**
Cassandras, Christos G. (*with* Strickland, Stephen G.) Perturbation analysis and augmented Markov chains for discrete event systems. (*see* **89c:00031**)
Chen, Jun Ya *see* **Zhu, Cheng Xi; et al.**, **89i:60072**
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Haviv, Moshe Aggregation/disaggregation methods for computing the stationary distribution of a Markov chain. **89f:65039**
Hooghiemstra, Gerard *see* **Greenwood, Priscilla E.**, **89d:60191**
Hordijk, Arie (*with* Ridder, Ad) Insensitive bounds for the stationary distribution of nonreversible Markov chains. **89m:60230**
Isaac, Richard Rates of convergence for renewal sequences in the null-recurrent case. **89i:60173**
Jensen, J. L. ★ Asymptotic expansions for sums of dependent variables. **89f:60025**
Kijima, Masaaki Some results for uniformizable semi-Markov processes. **89d:60165**
— Distribution properties of discrete characteristics in $M/G/1$ and $GI/M/1$ queues. (Japanese summary) **89i:60183**
Klebaner, Fima C. Conditions for fixation of an allele in the density-dependent Wright-Fisher models. **89k:92030**
Kogan, I. A. Optimal segmentation of structural experimental curves on the basis of the dynamic programming method. **89i:93128**
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— *see also* **Bokuchava, I. V.; et al.**, **89e:60040**
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Mikhaĭlov, V. A. Geometric analysis of the stability of Markov chains in $\mathbf{R}_+^n$ and its application to the calculation of the capacity of an adaptive random multiple access algorithm. **89e:93213**
Morris, Pricilla *see* **Arratia, R.; et al.**, **89h:60042**
Nagylaki, Thomas *see* **Ethier, S. N.**, **89i:60154**
Ōsawa, Hideo Reversibility of first-order autoregressive processes. **89d:62093**
Picardello, Massimo A. (*with* Woess, Wolfgang) Martin boundaries of random walks: ends of trees and groups. **89a:60177**
Qian, Min Ping *see* **Gong, Guang Lu**, **89j:60043**
Rego, Vernon *see* **Szpankowski, Wojciech**, **89k:93221**
Ridder, Ad *see* **Hordijk, Arie**, **89m:60230**
Shervashidze, T. L. *see* **Kvatadze, Z. A.**, **89d:60043** *and* **Bokuchava, I. V.; et al.**, **89e:60040**
Skorokhod, T. A. On the mixed product of stochastic semigroups generated by Wiener processes. **89i:60135**
Stewart, G. W. *see* **Meyer, Carl D.**, **89g:65043**
Strickland, Stephen G. *see* **Cassandras, Christos G.**, (**89c:00031**)
Szpankowski, Wojciech (*with* Rego, Vernon) Some theorems on instability with applications to multiaccess protocols. **89k:93221**
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Tollar, Eric S. On the limit behavior of a multicompartment storage model with an underlying Markov chain. **89g:60301**
Waterman, Michael S. *see* **Arratia, R.; et al.**, **89h:60042**
Wei, Wen Yuan *see* **Zhu, Cheng Xi; et al.**, **89i:60072**
Woess, Wolfgang *see* **Picardello, Massimo A.**, **89a:60177**
Yasuda, Masami On the value for OLA-optimal stopping problem by potential theoretic method. **89i:60093**
Zhu, Cheng Xi (*with* Chen, Jun Ya; Wei, Wen Yuan) The strong law of large numbers for functions of nonhomogeneous Markov chains. (Chinese) **89i:60072**

60J15 Random walk

Afanas'ev, V. I. Mean value of a function of a random walk up to the time of first entrance into the half-line. (Russian) **89c:60077**
Alzaid, A. (*with* Lau, Ka-Sing; Rao, Calyampuli Radhakrishna; Shanbhag, D. N.) Solution of Deny convolution equation restricted to a half line via a random walk approach. **89b:60161**
Balakrishnan, Venkataraman (*with* Chaturvedi, S.) Persistent diffusion on a line. **89k:60093**
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Berman, Kenneth A. (*with* Konsowa, Mokhtar) A counterexample to the conjecture of Woess on simple random walks on trees. **89g:60211**
Biaz, Khaleb Quelques propriétés de certaines marches aléatoires en milieu aléatoire. [Some properties of certain random walks in a random environment] **89g:60212**
Bratiĭchuk, N. S. Time of attainment of a level by a semicontinuous lattice walk on a countably valued Markov chain. (Russian) **89g:60213**
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Cartwright, Donald I. (*with* Soardi, P. M.) A local limit theorem for random walks on the Cartesian product of discrete groups. (Italian summary) **89a:60159**
Chaturvedi, S. *see* **Balakrishnan, Venkataraman**, **89k:60093**
Chen, Robert W. *see* **Erdős, Paul**, **89d:60124**
Csõrgő, Miklós (*with* Horváth, Lajos; Révész, P.) Stability and instability of local time of random walk in random environment. **89c:60078**
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Diaconis, P. *see* **Smith, Laurel**, **89m:60163**
Doney, R. A. On the asymptotic behaviour of first passage times for transient random walk. **89m:60157**
Downham, D. Y. (*with* Fotopoulos, S. B.) The transient behaviour of the simple random walk in the plane. **89c:60079**
Duplantier, Bertrand Intersections of random walks. A direct renormalization approach. **89i:60139**
Durrett, Rick Multidimensional RWRE with subclassical limiting behavior. **89a:60160**
Erdős, Paul (*with* Révész, P.) Problems and results on random walks. **89h:60112**
— (*with* Chen, Robert W.) Random walks on Z_2^n. **89d:60124**
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Falin, G. I. Monotonicity of random walks over partially ordered sets. (Not in MR)
Fotopoulos, S. B. *see* **Downham, D. Y.**, **89c:60079**
Gafurov, M. U. (*with* Slastnikov, A. D.) Some problems on the exit of a random walk from a curvilinear boundary, and large deviations. (Russian) **89a:60161**
— *see also* **Sirazhdinov, S. Kh.**, **89d:60126**
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Girko, V. L. (*with* Matveĭchuk, A. K.) A limit theorem for functionals of random walks. **89a:60162**
Gore, Sharad D. Classification of a correlated random walk using its ladder processes. **89h:60113**
Grill, K. On the average of a random walk. **89d:60125**
Grübel, R. Harmonic renewal sequences and the first positive sum. **89f:60077**
Gusak, D. V. Oscillating schemes for a random walk. I. (Russian) **89g:60217**
den Hollander, W. Th. F. (*with* Weiss, G. H.) On the range of a constrained random walk. **89j:60097**
— *see also* **Weiss, G. H.**, **89j:60099**
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Horváth, Lajos *see* **Csõrgő, Miklós; et al.**, **89c:60078**
Ismagilov, R. S. Correction to: "Application of a group algebra to problems on the tail σ-algebra of a random walk on a group and to problems on the ergodicity of a skew action". (Russian) **89m:60159b**
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Janson, Svante Random self-avoiding walks in some one-dimensional lattices. **89b:60163**
Jewett, Robert I. (*with* Ross, Kenneth A.) Random walks on $\mathbf{Z}$. **89i:60140**
Kaĭmanovich, V. A. Boundaries of random walks on polycyclic groups and the law of large numbers for solvable Lie groups. (Russian. English summary) **89j:60098**
Kasteleyn, P. W. On two types of obstructed random walks. **89b:60164**
Kesten, Harry Hitting probabilities of random walks on $\mathbf{Z}^d$. **89a:60163**
Klein, David *see* **Yang, Wei-Shih**, **89e:60137**
Konsowa, Mokhtar *see* **Berman, Kenneth A.**, **89g:60211**
Kotlyarov, E. L. The size of the first overshoot across the upper level by a random walk on a Markov chain. (Russian) **89g:60218**
Krámli, A. (*with* Lukács, P.; Szász, Domokos) A non-Wiener random walk in a two-dimensional Bernoulli environment. **89k:60094**
Krichagina, E. V. *see* **Butov, A. A.**, (Not in MR)
Lau, Ka-Sing *see* **Alzaid, A.; et al.**, **89b:60161**
Lawler, Gregory F. Low-density expansion for a two-state random walk in a random environment. **89m:60160**
Lazareva, B. V. *see* **Vaninskiĭ, K. L.**, **89d:60129**
Le Gall, J.-F. Une approche élémentaire des théorèmes de décomposition de Williams. [An elementary approach to Williams' decomposition theorems] **89g:60219**
Lĕtchikov, A. V. A limit theorem for a random walk in a random environment. **89m:60161**
Liu, Zai Ming A class of random walks in a random environment. (Chinese. English summary) **89m:60162**
Lotov, V. I. On the results of asymptotic analysis for the random walks with two-sided boundary. **89f:60078**
Lukács, P. *see* **Krámli, A.; et al.**, **89k:60094**
Matveĭchuk, A. K. *see* **Girko, V. L.**, **89a:60162**
Mukherjea, Arunava *see* **Darling, R. W. R.**, **89g:60215**

Nepesova, Dzh. K. Limit distribution of level attainment time by a random walk under deflection by a reflecting barrier. (Russian. English summary) **89e:60136**
Pemantle, Robin Phase transition in reinforced random walk and RWRE on trees. **89g:60220**
Percus, J. K. *see* **Percus, O. E., 89a:60164**
Percus, O. E. (*with* Percus, J. K.) Piecewise homogeneous random walk with a moving boundary. **89a:60164**
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Révész, P. *see* **Csörgő, Miklós; et al., 89c:60078; Erdős, Paul, 89h:60112** *and* **89m:60158**
Roberts, P. H. *see* **Berger, Mitchell A., 89e:60135**
Ross, Kenneth A. *see* **Jewett, Robert I., 89i:60140**
Sawyer, Stanley (*with* Steger, Tim) The rate of escape for anisotropic random walks in a tree. **89a:60165**
Schott, R. Recurrent random walks on homogeneous spaces. **89a:60166**
Shanbhag, D. N. *see* **Alzaid, A.; et al., 89b:60161**
Sirazhdinov, S. Kh. (*with* Gafurov, M. U.) Asymptotics of the mean of a functional of a random walk. **89d:60126**
Slade, Gordon Convergence of self-avoiding random walk to Brownian motion in high dimensions. **89d:60127**
Slastnikov, A. D. *see* **Gafurov, M. U., 89a:60161**
Smith, Laurel (*with* Diaconis, P.) Honest Bernoulli excursions. **89m:60163**
Soardi, P. M. *see* **Cartwright, Donald I., 89a:60159**
Soner, H. M. *see* **Berger, Marc A., 89d:60123**
Stadje, W. The exact probability distribution of a two-dimensional random walk. **89b:60165**
— The influence of the initial distribution on a random walk. **89k:60096**
— *see also* **Hooghiemstra, Gerard, 89b:60162**
Steger, Tim *see* **Sawyer, Stanley, 89a:60165**
Sunyach, C. Sur la transience et la récurrence des marches aléatoires en milieu aléatoire. (English summary) [On the transience and recurrence of random walks in a random environment] **89c:60080**
Szász, Domokos *see* **Krámli, A.; et al., 89k:60094**
Szubarga, A. (*with* Szynal, D.) Conditioned random walks with random indices. **89g:60221**
Szynal, D. *see* **Szubarga, A., 89g:60221**
Temperley, H. N. V. New results on the enumeration of nonintersecting random walks. **89d:60128**
Vaninskiĭ, K. L. (*with* Lazareva, B. V.) Conditions for the ergodicity and irreversibility of a homogeneous Markov chain in the positive quadrant. **89d:60129**
Weiss, G. H. (*with* den Hollander, W. Th. F.) A note on configurational properties of constrained random walks. **89j:60099**
— *see also* **den Hollander, W. Th. F., 89j:60097**
Yadrenko, V. M. An ergodicity coefficient of a Markov chain that describes the simplest random walk on a half-line. (Russian) **89g:60222**
Yang, Wei-Shih (*with* Klein, David) A note on the critical dimension for weakly self-avoiding walks. **89e:60137**
Żołądek, Henryk One-dimensional random walk with self-interaction. **89b:60166**
Zuckerman, David Covering times of random walks on bounded degree trees and other graphs. **89m:60164**

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Ambjørn, Jan (*with* Durhuus, Bergfinnur; Jónsson, Thórdur) Statistical mechanics of paths with curvature-dependent action. **89f:82040**
Andjel, Enrique D. A zero or one law for one-dimensional random walks in random environments. **89e:60198**
Bendler, John T. (*with* Dishon, Menachem; Kesten, Harry; Weiss, G. H.) A first passage time problem for random walk occupancy. **89m:82051**
Bouchaud, Jean-Philippe (*with* Georges, Antoine) Flory formula as an extended law of large numbers. **89k:82065**
Cartwright, Donald I. Random walks on direct sums of discrete groups. **89j:60013**
Cerrito, P. B. Limits of convolution iterates and properties of random walks defined on regular semigroups with applications to matrix semigroups. **89k:60009**
Chan, Derek Y. C. (*with* Hughes, Barry D.) Ion diffusion in a Coulombic field. **89i:82107**
Chung, Kai Lai Notes on the inhomogeneous Schrödinger equation. **89h:60136**
David, François Louis *see* **Duplantier, Bertrand, 89m:82005**
Debierre, Jean-Marc *see* **Turban, Loïc, 89b:82099**
Dhar, Deepak Critical exponents of self-avoiding walks on fractals with dimension $2-\varepsilon$. (French summary) **89f:82017**
Dishon, Menachem *see* **Bendler, John T.; et al., 89m:82051**
Doyle, Peter G. (*with* Snell, J. Laurie) ★ Random walks and electric networks. **89a:94023**
Drabkin, L. *see* **Khusanov, M., 89g:60287**
Duplantier, Bertrand Critical exponents of Manhattan Hamiltonian walks in two dimensions, from Potts and $O(n)$ models. **89b:82025**
— (*with* David, François Louis) Exact partition functions and correlation functions of multiple Hamiltonian walks on the Manhattan lattice. **89m:82005**
Durhuus, Bergfinnur *see* **Ambjørn, Jan; et al., 89f:82040**
Dynkin, E. B. Self-intersection gauge for random walks and for Brownian motion. **89f:60053**
Élie, Laure Noyaux potentiels associés aux marches aléatoires sur les espaces homogènes. Quelques exemples clefs dont le groupe affine. [Potential kernels associated with random walks on homogeneous spaces. Some key examples, including the affine group] **89f:60011**
Fletcher, John E. (*with* Havlin, Shlomo; Weiss, G. H.) First passage time problems in time-dependent fields. **89d:82050**
de Forcrand, Philippe (*with* Pasche, J.; Petritis, D.) Critical behaviour of Edwards random walk in two dimensions: a case where the fractal and Hausdorff dimensions are not equal. **89i:82024**
Gaveau, Bernard (*with* Méritet, Alain) An anomalous diffusion in a long-range disordered lattice. **89m:82055**
Gebuhrer, Olivier Algèbres de Banach commutatives de mesures de Radon bornées et théorèmes ergodiques de type L^1. (English summary) [Commutative Banach algebras of bounded Radon measures and ergodic theorems of L^1-type] **89a:46108**
Georges, Antoine *see* **Bouchaud, Jean-Philippe, 89k:82065**
Goldhirsch, I. (*with* Noskowicz, S. H.) Anomalous fluctuations in random walk dynamics. **89b:82129a**
— *see also* **Noskowicz, S. H., 89b:82129b** *and* **89i:82044**
Griggs, Jerrold R. Saturated chains of subsets and a random walk. **89b:05004**
Handelman, David E. ★ Positive polynomials, convex integral polytopes, and a random walk problem. **89b:06014**
Hara, Hiroaki (*with* Obata, Tsunehiro; Lee, Seung Joo) Fluctuation and bifurcation of the path described by generalized random walks. **89a:82059**
Havlin, Shlomo *see* **Fletcher, John E.; et al., 89d:82050**
Hill, Terrell L. Discrete-time random walks on diagrams (graphs) with cycles. **89f:60075**
— Interrelations between random walks on diagrams (graphs) with and without cycles. **89m:92021**
Hlynka, M. (*with* Sheahan, J. N.) The secretary problem for a random walk. **89g:90231**
den Hollander, W. Th. F. Mixing properties for random walk in random scenery. **89i:60199**
Hughes, Barry D. *see* **Chan, Derek Y. C., 89i:82107**
Imhof, J.-P. Heuristic approach to some laws for Brownian motion. (French summary) **89e:60154**
James, Barry (*with* James, Kang Ling; Siegmund, David) Conditional boundary crossing probabilities, with applications to change-point problems. **89b:60070**
James, Kang Ling *see* **James, Barry; et al., 89b:60070**
Jónsson, Thórdur *see* **Ambjørn, Jan; et al., 89f:82040**
Kesten, Harry *see* **Bendler, John T.; et al., 89m:82051**
Khandekar, D. C. (*with* Wiegel, F. W.) Distribution of the area enclosed by a plane random walk. **89j:82052**
Khaniev, T. A. Distribution of an additive functional of a semi-Markov walk process with two delaying screens and dependent components. (Russian) **89k:60128**
Khusanov, M. (*with* Drabkin, L.) The relation between two potentials in the queueing system $M|G|1|\infty$. (Russian) **89g:60287**
Klüppelberg, Claudia Subexponential distributions and integrated tails. **89c:60016**
Lawler, Gregory F. Loop-erased self-avoiding random walk and the Laplacian random walk. **89a:82007**
— Loop-erased self-avoiding random walk in two and three dimensions. **89f:82053**
Lee, Seung Joo *see* **Hara, Hiroaki; et al., 89a:82059**
Leguesdron, J. P. Marche aléatoire sur le semi-groupe des contractions de $\mathbf{R}^d$. Cas de la marche aléatoire sur $\mathbf{R}_+$ avec choc élastique en zéro. [Random walk on the contraction semigroup in $\mathbf{R}^d$. Case of a random walk in $\mathbf{R}_+$ with elastic collision at zero] **89g:60208**
Louchard, G. Random walks, Gaussian processes and list structures. **89j:68068**
Maes, D. (*with* Van den Broeck, C.) Discrete versus continuous-time random walks. **89i:60155**
Masuda, Yasushi First passage times of birth-death processes and simple random walks. **89e:60168**
Méritet, Alain *see* **Gaveau, Bernard, 89m:82055**
Mikosch, Thomas Iterated logarithm results for rapidly growing random walk. **89b:60079**
Ng, Boon-Yian An extension of random walks on the dual of SU(2). **89c:60013**
Noskowicz, S. H. (*with* Goldhirsch, I.) Distribution functions for random walk processes on networks: an analytic method. **89b:82129b**
— (*with* Goldhirsch, I.) Average versus typical mean first-passage time in a random random walk. **89i:82044**
— *see also* **Goldhirsch, I., 89b:82129a**
Obata, Tsunehiro *see* **Hara, Hiroaki; et al., 89a:82059**
Pasche, J. *see* **de Forcrand, Philippe; et al., 89i:82024**
Petritis, D. *see* **de Forcrand, Philippe; et al., 89i:82024**
Renshaw, Eric The high-order autocovariance structure of the telegraph wave. **89m:60173**
Sattler, J. (*with* Schnorr, C.-P.) Generating random walks in groups. **89a:68108**
Schnorr, C.-P. *see* **Sattler, J., 89a:68108**
Sheahan, J. N. *see* **Hlynka, M., 89g:90231**
Siegmund, David *see* **James, Barry; et al., 89b:60070**
Snell, J. Laurie *see* **Doyle, Peter G., 89a:94023**
Soardi, P. M. Simple random walks on $\mathbf{Z}^2 * Z_2$. **89k:60010**
— Random walks on a discrete semigroup and Chebyshev polynomials. **89h:60015**
Stadje, W. Asymptotic normality in a two-dimensional random walk model for cell motility. **89h:92034**
Sumners, De Witt L. (*with* Whittington, S. G.) Knots in self-avoiding walks. **89i:82060**
Taguchi, Yoshi-hiro Self-avoiding walks on Sierpiński carpets. **89j:82021**
Turban, Loïc (*with* Debierre, Jean-Marc) Crossover in the one-dimensional self-directed walk. **89b:82099**
Van den Broeck, C. *see* **Maes, D., 89i:60155**
Wall, Frederick T. Discrete mechanics and special relativistic random walks. **89d:83008**
Weiss, G. H. *see* **Fletcher, John E.; et al., 89d:82050** *and* **Bendler, John T.; et al., 89m:82051**
Whittington, S. G. *see* **Sumners, De Witt L., 89i:82060**
Wiegel, F. W. *see* **Khandekar, D. C., 89j:82052**
Willis, G. A. The boundary associated with a probability measure on a group. **89m:60183**
Zhang, Cun Hui A nonlinear renewal theory. **89j:60120**

60J20 Applications of discrete Markov processes (social mobility, learning theory, industrial processes, etc.)

Abdallaoui, G. Probability of maintaining or attaining a structure in one step. **89f:60079**
Ball, Frank (*with* Donnelly, Peter) Interparticle correlation in death processes with application to variability in compartmental models. **89c:60081**
Benaroya, H. Markov chain transition probabilities and experimental data. **89m:60165**
Cerrito, P. B. An improved stochastic model allowing interaction among individuals. **89i:60141**
Donnelly, Peter *see* **Ball, Frank, 89c:60081**
Tsaklidis, G. (*with* Vassiliou, P.-C. G.) Asymptotic periodicity of the variances and covariances of the state sizes in nonhomogeneous Markov systems. **89c:60082**
Vassiliou, P.-C. G. *see* **Tsaklidis, G., 89c:60082**

Items with secondary classifications in 60J20

Balding, David Diffusion-reaction in one dimension. **89i:60194**
Berger, Marc A. Encoding images through transition probabilities. **89i:60136**
Boucher, Wayne (*with* Nagylaki, Thomas) Regular systems of inbreeding. **89k:92024**
Budde, Carlos E. *see* **Cáceres, Manuel O., 89e:60130**
Cáceres, Manuel O. (*with* Budde, Carlos E.) Marginal distribution of a Markovian chain with internal states: the resolvent matrix. **89e:60130**
Cheng, Kan (*with* Hu, Yi Min) Limiting behavior of a PH distribution and its application in a reliability model. **89h:60148**
Csibi, S. More on the stability of a data packet flow embedded randomly into a partially active, scheduled speech packet flow. (Russian summary) **89d:60120**
Èĭdel′man, S. D. *see* **Korolyuk, V. S.; et al., 89k:68108**
Hegerfeldt, Gerhard C. (*with* Schulze, Henrik) Quantum shot noise: expansions in powers of the pulse density. **89h:82012**
Hu, Yi Min *see* **Cheng, Kan, 89h:60148**
Janicki, Sławomir Direct sum of stochastic automata. (Russian summary) **89a:68164**
Klebaner, Fima C. Conditions for fixation of an allele in the density-dependent Wright-Fisher models. **89k:92030**
Korolyuk, V. S. (*with* Pletnëv, A. I.; Èĭdel′man, S. D.) Automata. Random walks. Games. **89k:68108**
Mesa López-Colmenar, Juan Antonio Reduction of dimensionality in minimax stochastic dynamical localization: the nonfinite state space. (Spanish. English summary) **89g:90111**
Nagylaki, Thomas *see* **Boucher, Wayne, 89k:92024**
Panayırcı, Erdal Pattern recognition with continuous-parameter partially observable Markov chains. (Turkish summary) **89a:68185**
Phatarfod, Ravindra M. Sums and weighted sums of a gamma Markov sequence. **89c:60114**
Pletnëv, A. I. *see* **Korolyuk, V. S.; et al., 89k:68108**
Schulze, Henrik *see* **Hegerfeldt, Gerhard C., 89h:82012**
Sigman, Karl Queues as Harris recurrent Markov chains. **89d:60190**
Taneja, Inder Jeet Unified measure of information applied to Marcov [Markov] chains and sufficiency. **89h:94006**
Stan, Mircea Fluctuation spectrum for stochastic impulsional processes. (Romanian summary) **89h:60114**
Stettner, L. *see* **Bielecki, T., 89e:60138**
Tsar′kov, E. F. Markovian perturbations of the parameters of linear differential equations. (Russian) **89j:60100c**
Vervaat, Wim Algebraic duality of Markov processes. **89k:60103**
Xie, Yu Quan The Markov properties of a two-parameter stochastic process and the proof of a necessary and sufficient condition for the large future Markov property. (Chinese. English summary) **89m:60170**
Zakusilo, O. K. On the limit characteristics of some Markov processes with deterministic drift. (Russian) **89b:60170**
— One-dimensional continuous drift processes. (Russian) **89f:60081**
— Characteristic times of Markov drift processes. **89g:60226**
Zhdanok, A. I. *see* **Butsan, G. P.; et al., 89g:60224**

60J25 Markov processes with continuous parameter

Akcoglu, M. A. (*with* Krengel, Ulrich) Nonlinear models of diffusion on a finite space. **89b:60167**
Baccelli, F. (*with* Fayolle, G.) Analysis of models reducible to a class of diffusion processes in the positive quarter plane. **89b:60168**
Bass, R. F. Occupation time densities for stable-like processes and other pure jump Markov processes. **89i:60142**
Bielecki, T. (*with* Stettner, L.) On some problems arising in asymptotic analysis of Markov processes with singularly perturbed generators. **89e:60138**
Bouton, Catherine Approximation gaussienne d'algorithmes stochastiques à dynamique markovienne. (English summary) [Gauss approximation of stochastic algorithms with Markov dynamics] **89g:60223**
Butsan, G. P. (*with* Zhdanok, A. I.; Girko, V. L.) Distributions on functional structures. (Russian) **89g:60224**
Chani, A. S. The index of exponential growth for a class of stochastic semigroups. (Russian) **89m:60166**
Dai, Yong Long On Kingman's inequalities. (Chinese. English summary) **89k:60097**
Falkner, Neil Approximation of debuts. **89k:60098**
Fayolle, G. *see* **Baccelli, F., 89b:60168**
Fleming, W. H. (*with* Sheu, Shuenn Jyi; Soner, H. M.) A remark on the large deviations of an ergodic Markov process. **89k:60099**
Gevorkyan, U. Z. *see* **Sarafyan, V. V., 89b:60169**
Girko, V. L. *see* **Butsan, G. P.; et al., 89g:60224**
Glover, Joseph Quasistationary distributions, eigenmeasures, and eigenfunctions of Markov processes. **89c:60083**
Huang, Chang Quan A counterexample in two-parameter Markov processes. (Chinese) (Not in MR)
Jacob, Christine Cycles limites stochastiques et confineurs pour processus markoviens. (English summary) [Stochastic limit cycles and confiners for Markov processes] **89g:60225**
Kaspi, Haya Random time changes for processes with random birth and death. **89f:60080**
— (*with* Mitro, Joanna B.) Homogeneous random measures for Markov processes in weak duality: study via an entrance boundary. **89i:60143**
Kharlamov, B. P. A time change relating continuous semi-Markov and Markov processes. **89d:60130**
Krengel, Ulrich *see* **Akcoglu, M. A., 89b:60167**
Le Jan, Y. On the Fock space representation of functionals of the occupation field and their renormalization. **89k:60100**
Liu, Lu Qin Additive functionals and stopping time changes of Markov processes. II. (Chinese. English summary) **89k:60101**
Luo, Shou Jun On strong germ-Markov properties in the plane. **89i:60144**
Mazhuga, Yu. I. An estimate for the distribution of the cut-off time of a continuous homogeneous Markov process. (Russian) **89k:60102**
McGill, Paul Excursions from random boundaries. **89m:60167**
Mikami, Toshio Asymptotic expansions of the invariant density of a Markov process with a small parameter. (French summary) **89m:60168**
Mitro, Joanna B. A time reversal study of exit/entrance processes. **89c:60084**
— Discontinuous time changes and duality for Markov processes. **89d:60131**
— *see also* **Kaspi, Haya, 89i:60143**
Molchan, G. M. Gaussian quasi-Markov processes with stationary increments. (Russian) **89c:60085**
Sarafyan, V. V. (*with* Gevorkyan, U. Z.) Markov processes and boundary value problems for a class of systems of differential equations. (Russian. Armenian summary) **89b:60169**
Sharpe, Michael ★ General theory of Markov processes. **89m:60169**
Sheu, Shuenn Jyi *see* **Fleming, W. H.; et al., 89k:60099**
Soner, H. M. *see* **Fleming, W. H.; et al., 89k:60099**

Items with secondary classifications in 60J25

Anisimov, V. V. Ergodic theorems and closeness estimates for asymptotically connected Markov processes. (Russian) **89d:60116**
Athreya, K. B. (*with* Kliemann, W.; Koch, Giorgio) On sequential construction of solutions of stochastic differential equations with jump terms. **89g:60197**
Barlow, M. T. (*with* Perkins, Edwin A.) Brownian motion on the Sierpiński gasket. **89g:60241**
Bertoin, Jean Temps locaux et intégration stochastique pour les processus de Dirichlet. [Local times and stochastic integration for Dirichlet processes] **89g:60177**
Bougerol, Philippe Théorèmes limite pour les systèmes linéaires à coefficients markoviens. (English summary) [Limit theorems for linear systems with Markov coefficients] **89i:60122**
Carmichael, J.-P. (*with* Massé, J.-C.; Theodorescu, R.) Representations for multivariate reciprocal Gaussian processes. **89d:60071**
Chebotarëv, A. M. Sufficient conditions for the regularity of jump Markov processes. **89d:60149**
Cipra, T. Autoregressive processes in optimization. **89h:90163**
Erofeev, M. I. Some limit theorems for branching processes with energy. (Russian) **89e:60166**
Fitzsimmons, P. J. (*with* Getoor, R. K.) Revuz measures and time changes. **89h:60124**
Fourati, Sonia (*with* Lenglart, Erik) Tribus homogènes et commutation de projections. [Homogeneous tribes and commutation of projections] **89i:60110**
Frolov, F. F. Boundary value problems for systems of stochastic partial differential equations. **89k:60082**
Getoor, R. K. *see* **Fitzsimmons, P. J., 89h:60124**
Hsu, Pei (*with* March, P.) Brownian excursions from extremes. **89k:60120**
Iosifescu, Marius ★ Skończone procesy Markowa i ich zastosowania. (Polish) [Finite Markov processes and their applications] **89m:60155**
Kaniovskiĭ, Yu. M. Convergence of one-dimensional stochastic processes of optimization and estimation in multiextremal problems. (Russian) **89d:60056**
Kaspi, Haya (*with* Maisonneuve, Bernard) Predictable local times and exit systems. **89k:60115**
Kliemann, W. *see* **Athreya, K. B.; et al., 89g:60197**
Koch, Giorgio *see* **Athreya, K. B.; et al., 89g:60197**
Lawler, Gregory F. (*with* Sokal, Alan D.) Bounds on the L^2 spectrum for Markov chains and Markov processes: a generalization of Cheeger's inequality. **89h:60105**
Lenglart, Erik *see* **Fourati, Sonia, 89i:60110**
Maisonneuve, Bernard *see* **Kaspi, Haya, 89k:60115**
March, P. *see* **Hsu, Pei, 89k:60120**
Marias, Michel Littlewood-Paley-Stein theory and Bessel diffusions. (French summary) **89e:60142**
Massé, J.-C. *see* **Carmichael, J.-P.; et al., 89d:60071**
Mazziotto, G. (*with* Stettner, L.; Szpirglas, J.; Zabczyk, J.) On impulse control with partial observation. **89i:49009**
Mikami, Toshio Some generalizations of Wentzell's lower estimates on large deviations. **89m:60064**
Mikulevičius, R. (*with* Pragarauskas, H.) Green measures of Itô processes. (Russian. English and Lithuanian summaries) **89h:60128**
Norris, James What is stochastic calculus? (*see* **89k:60003**)
Perkins, Edwin A. *see* **Barlow, M. T., 89g:60241**
Pop-Stojanović, Z. R. Continuity of excessive harmonic functions for certain diffusions. **89e:60145**
Pragarauskas, H. *see* **Mikulevičius, R., 89h:60128**
Rogers, L. C. G. (*with* Williams, David) ★ Diffusions, Markov processes, and martingales. Vol. 2. **89k:60117**
Ruiz de Chávez, J. Compensation multiplicative et "produits de Wick". [Multiplicative compensation and "Wick products"] **89k:60072**
Shaked, M. (*with* Shanthikumar, J. George) Temporal stochastic convexity and concavity. **89h:60064**
Shanthikumar, J. George *see* **Shaked, M., 89h:60064**
Sokal, Alan D. *see* **Lawler, Gregory F., 89h:60105**
Stettner, L. *see* **Mazziotto, G.; et al., 89i:49009**
Szpirglas, J. *see* **Mazziotto, G.; et al., 89i:49009**
Takahashi, Yôichirô Long time asymptotics of the ratio of measures of small tubes and a large deviation result. **89g:60100**
Theodorescu, R. *see* **Carmichael, J.-P.; et al., 89d:60071**
Touati, Abderrahmen Loi fonctionnelle du logarithme itéré pour des processus de Markov récurrents. (English summary) [Functional law of the iterated logarithm for recurrent Markov processes] **89a:60094**
(Wesołowski, Jacek) *see* **Iosifescu, Marius, 89m:60155**
Williams, David *see* **Rogers, L. C. G., 89k:60117**
Wu, Li Ming Inégalité de Sobolev sur l'espace de Poisson. [The Sobolev inequality on Poisson space] **89k:60118**
Yan, Jia An A formula for densities of transition functions. **89m:60179**
Zabczyk, J. *see* **Mazziotto, G.; et al., 89i:49009**

Zanzotto, Pio Andrea Application du théorème de Scorza Dragoni aux équations différentielles stochastiques. (English summary) [Application of Scorza Dragoni's theorem to stochastic differential equations] **89d:60114**

60J27 Markov chains with continuous parameter

Aalen, Odd O. Mixing distributions on a Markov chain. **89d:60132**

Aldous, David (*with* Shepp, L. A.) The least variable phase type distribution is Erlang. **89h:60115**

Aubakirov, T. U. The properties of monotonicity and stability of population processes and their application for an error estimate for the Wilkinson method. (Russian) **89g:60227**

Biswas, Suddhendu (*with* Ebraheem, Nather Abas) On an application of the diffusion approximation of the generalized birth and death process for stochastic population projection. **89g:60228**

Bo, Lian Ming The strong Markov property of a denumerable Markov process. (Chinese. English summary) **89i:60145**

Chen, An Yue (*with* Zhang, Han Jun) Criterion for the existence of reversible Q-processes. **89d:60133**

Chiang, Tsu Shu (*with* Chow, Yun Shyong) On the convergence rate of a special class of annealing processes. **89h:60116**

Chow, Yun Shyong *see* **Chiang, Tsu Shu, 89h:60116**

Crank, Keith N. A method for approximating the probability functions of a Markov chain. **89m:60171**

Ebraheem, Nather Abas *see* **Biswas, Suddhendu, 89g:60228**

Falin, G. I. Comparability of migration processes. **89e:60139**

Hill, Terrell L. Number of visits to a state in a random walk, before absorption, and related topics. **89g:60229**

Isaacson, Dean *see* **Johnson, Jean, 89a:60167**

Johnson, Dudley Paul A short proof of the central limit theorem for Markov chains. **89b:60171**

Johnson, Jean (*with* Isaacson, Dean) Conditions for strong ergodicity using intensity matrices. **89a:60167**

Joyce, Paul (*with* Tavaré, Simon) Cycles, permutations and the structure of the Yule process with immigration. **89a:60168**

Keilson, J. (*with* Zachmann, M.) Homogeneous row-continuous bivariate Markov chains with boundaries. **89j:60101**

Kijima, Masaaki On passage and conditional passage times for Markov chains in continuous time. **89g:60230**

Lakatos, László On inhomogeneous Markov chain with bounded positive jumps and homogeneous second component. **89g:60231**

Lindqvist, Bo Henry Monotone and associated Markov chains, with applications to reliability theory. **89b:60172**

Pollett, P. K. Reversibility, invariance and μ-invariance. **89m:60172**

Renshaw, Eric The high-order autocovariance structure of the telegraph wave. **89m:60173**

Ridder, Ad Stochastic ordering of conditional steady-state probabilities. **89g:60232**

Shepp, L. A. *see* **Aldous, David, 89h:60115**

Shuai, Yuan Zu Constraining the first hitting time. **89e:60140**

Sjogren, J. A. Iterative methods in the solution of dependability models. **89m:60174**

Tang, Ling Qi The construction of birth and death processes with an instantaneous state. (Chinese) **89a:60169**

Tavaré, Simon *see* **Joyce, Paul, 89a:60168**

Tóth, J. Structure of the state space in stochastic kinetics. **89k:60104**

Watson, Ray On the size of a rumour. **89e:60141**

Zachmann, M. *see* **Keilson, J., 89j:60101**

Zhang, Han Jun *see* **Chen, An Yue, 89d:60133**

Ziedins, Ilze Quasistationary distributions and one-dimensional circuit-switched networks. **89g:60233**

Items with secondary classifications in 60J27

Adlakha, V. G. *see* **Kulkarni, V. G., 89a:90060**

Ball, Frank (*with* Sansom, Mark) Aggregated Markov processes incorporating time interval omission. **89g:60269**

Blanc, J. P. C. On a numerical method for calculating state probabilities for queueing systems with more than one waiting line. **89a:60211**

Bukhalev, V. A. (*with* Efimov, E. V.; Kazakov, I. E.) Complex processing of information from gauges and indicators in dynamical systems with conditionally Markov structure. **89c:94016**

Caromicoli, Adam (*with* Willsky, Alan S.; Gershwin, Stanley B.) Multiple time scale analysis of manufacturing systems. (*see* **89c:00031**)

Dembo, A. *see* **Zeitouni, O., 89h:60068**

Downham, D. Y. (*with* Fotopoulos, S. B.) The transient behaviour of the simple random walk in the plane. **89c:60079**

Efimov, E. V. *see* **Bukhalev, V. A.; et al., 89c:94016**

Fotopoulos, S. B. *see* **Downham, D. Y., 89c:60079**

Fredkin, Donald R. (*with* Rice, John A.) Correlation functions of a function of a finite-state Markov process with application to channel kinetics. **89d:92023**

Gershwin, Stanley B. *see* **Caromicoli, Adam; et al.**, (**89c:00031**)

Höpfner, Reinhard A remark on stopping times associated with continuous-time ergodic Markov chains and an application to statistical inference in birth-and-death processes. **89c:62136**

Kazakov, I. E. *see* **Bukhalev, V. A.; et al., 89c:94016**

Kifer, Yuri ★ Ergodic theory of random transformations. **89c:58069**

Kijima, Masaaki Some results for uniformizable semi-Markov processes. **89d:60165**

Kulkarni, V. G. (*with* Adlakha, V. G.) Markov and Markov-regenerative PERT networks. **89a:90060**

Lawler, Gregory F. (*with* Sokal, Alan D.) Bounds on the L^2 spectrum for Markov chains and Markov processes: a generalization of Cheeger's inequality. **89h:60105**

Mikhaĭlov, G. A. Monte Carlo methods with stochastic parameters. **89e:65007**

Rice, John A. *see* **Fredkin, Donald R., 89d:92023**

Sansom, Mark *see* **Ball, Frank, 89g:60269**

Shiffrin, Richard (*with* Thompson, Maynard) Moments of transition-additive random variables defined on finite, regenerative random processes. **89j:60094**

Sokal, Alan D. *see* **Lawler, Gregory F., 89h:60105**

Thompson, Maynard *see* **Shiffrin, Richard, 89j:60094**

Willsky, Alan S. *see* **Caromicoli, Adam; et al.**, (**89c:00031**)

Yamazato, M. Characterization of the class of upward first passage time distributions of birth and death processes and related results. **89g:60248**

Zeitouni, O. (*with* Dembo, A.) Exact filters for the estimation of the number of transitions of finite-state continuous-time Markov processes. **89h:60068**

60J30 Processes with independent increments

Balkema, A. A. (*with* de Haan, L.) Almost sure continuity of stable moving average processes with index less than one. **89h:60117**

Bass, R. F. Uniqueness in law for pure jump Markov processes. **89h:60118**

Blumen, A. *see* **Köhler, Günther Horst, 89g:60235**

Bouleau, N. (*with* Lamberton, D.) Théorie de Littlewood-Paley-Stein et processus stables. [Littlewood-Paley-Stein theory and stable processes] **89h:60119**

Bratiĭchuk, N. S. Some properties of the maximum and the minimum of a process with independent increments. (Russian) **89i:60146**

— Distribution of the absolute maximum and the magnitude of the jump for a process with independent increments. (Russian. English summary) **89m:60175**

Braverman, M. Sh. Linear operators generated by random processes. (Russian) **89i:60147**

Chani, A. S. Integral representation of the exponential product of stochastic semigroups. (Russian) **89a:60170**

Csáki, Endre (*with* Földes, Antónia) On the length of the longest flat interval. **89g:60234**

Evans, Steven N. Multiple points in the sample paths of a Lévy process. **89a:60171**

Fitzsimmons, P. J. (*with* Taksar, Michael) Stationary regenerative sets and subordinators. **89m:60176**

Földes, Antónia *see* **Csáki, Endre, 89g:60234**

Gusak, D. V. (*with* Tureniyazova, A. I.) On lattice semicontinuous Poisson processes on a Markov chain. (Russian) **89a:60172**

de Haan, L. *see* **Balkema, A. A., 89h:60117**

Heyer, Herbert Generalized translation structures and invariant Feller semigroups. **89k:60105**

Hsieh, Nan Jui Collisions of Lévy processes. **89k:60106**

Jacod, Jean (*with* Protter, Philip) Time reversal on Lévy processes. **89j:60102**

Kifer, Yuri A note on integrability of G^r-norms of stochastic flows and applications. **89k:60107**

Köhler, Günther Horst (*with* Blumen, A.) Subordination on ultrametric spaces. **89g:60235**

Lamberton, D. *see* **Bouleau, N., 89h:60119**

Léandre, Rémi Régularité de processus de sauts dégénérés. II. (English summary) [Regularity for degenerate pure jump processes. II] **89j:60103**

Mijnheer, Joop A functional form for the lower Lipschitz condition for the stable subordinator. **89f:60082**

Port, S. C. Occupation time and the Lebesgue measure of the range for a Lévy process. **89i:60148**

Protter, Philip *see* **Jacod, Jean, 89j:60102**

Rosen, Jay Continuity and singularity of the intersection local time of stable processes in $\mathbf{R}^2$. **89a:60173**

Siebert, E. Decomposition of convolution semigroups on Polish groups and zero-one laws. **89b:60173**

Stam, A. J. Polynomials of binomial type and compound Poisson processes. **89d:60134**

Taksar, Michael *see* **Fitzsimmons, P. J., 89m:60176**

Tureniyazova, A. I. *see* **Gusak, D. V., 89a:60172**

Wee, In Suk Lower functions for processes with stationary independent increments. **89d:60135**

Willekens, Eric On the supremum of an infinitely divisible process. **89a:60174**

Items with secondary classifications in 60J30

Albeverio, S. (*with* Høegh-Krohn, R.; Holden, Helge) Stochastic multiplicative measures, generalized Markov semigroups, and group-valued stochastic processes and fields. **89k:60055**

Barlow, M. T. Necessary and sufficient conditions for the continuity of local time of Lévy processes. **89k:60114**

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Góźdź, Czesław (*with* Polak, Mieczysław) An approximation theorem for the Poisson processes defined on an abstract space. **89b:60128**

Høegh-Krohn, R. *see* **Albeverio, S.; et al., 89k:60055**

Holden, Helge *see* **Albeverio, S.; et al., 89k:60055**

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Korostelëv, A. P. Recurrent nonparametric estimation based on the observation of the path of a process with independent increments. **89m:62038**

Kruglov, V. M. Weak convergence of step-processes to a homogeneous Poisson process with independent increments. (Russian) **89h:60051**

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Minami, Nariyuki Schrödinger operator with potential which is the derivative of a temporally homogeneous Lévy process. **89m:60146**

Mishra, M. N. *see* **Nayak, Chanchala; et al., 89a:60113**

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Pattanayak, Swadheenananda *see* **Nayak, Chanchala; et al., 89a:60113**

Pillai, R. N. α-Laplace stochastic process. **89b:60033**

Pinsky, Ross Hypercontractivity estimates for nonselfadjoint diffusion semigroups. **89m:60187**

Polak, Mieczysław *see* **Góźdź, Czesław, 89b:60128**

Ragimov, F. G. Tangent approximation for the density of the time of first crossing of a stable process over a nonlinear boundary. I. (Russian. English and Azerbaijani summaries) **89m:60096**

Rajput, Balram S. (*with* Rama-Murthy, Kavi) On the spectral representations of complex semistable and other infinitely divisible stochastic processes. **89e:60089**

Rama-Murthy, Kavi *see* **Rajput, Balram S., 89e:60089**

Rao, Murali Hunt's hypothesis for Lévy processes. **89i:60151**

Rosen, Jay Limit laws for the intersection local time of stable processes in $\mathbf{R}^2$. **89f:60029**

Sadi, H. *see* **Jacod, Jean, 89m:60111**

Shurenkov, V. M. *see* **Suprun, V. N., 89g:60087**

Słomiński, Leszek Approximation of predictable characteristics of processes with filtrations. **89e:60079**

Stricker, C. À propos d'une conjecture de Meyer. [Concerning a conjecture of Meyer] **89m:60107**

Suprun, V. N. (*with* Shurenkov, V. M.) Limit distributions of the position at the exit time from an interval of a semicontinuous process with negative infinite mean. **89g:60087**

Taksar, Michael Stationary Markov sets. **89e:60103**

Vinnishin, Ya. F. Operator-valued processes with independent increments. (Russian) **89i:60013**

60J35 Transition functions, generators and resolvents [see also 47D05, 47D07]

Da Prato, G. Some results on Kolmogoroff equations for infinite-dimensional stochastic systems. **89f:60083**

Fleming, W. H. (*with* Soner, H. M.) Asymptotic expansions for Markov processes with Lévy generators. **89k:60108**

Janssen, K. Representation of excessive measures. **89f:60084**

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Maslowski, Bohdan Weak stability of a certain class of Markov processes and applications to nonsingular stochastic differential equations. **89i:60149**

Meyer, P.-A. Sur l'existence de l'opérateur carré du champ. [On the existence of the squared gradient operator] **89m:60177a**

— Erratum: "On the existence of the squared gradient operator". (French) **89m:60177b**

Negoro, Akira (*with* Tsuchiya, Masaaki) A convergence condition for stochastic processes associated with Lévy generating operators. **89j:60104**

Pisier, Gilles Riesz transforms: a simpler analytic proof of P.-A. Meyer's inequality. **89m:60178**

Pötzelberger, K. Completely positive operators and processes of Ornstein-Uhlenbeck type. **89b:60174**

Soner, H. M. *see* **Fleming, W. H., 89k:60108**

Tsuchiya, Masaaki *see* **Negoro, Akira, 89j:60104**

Yan, Jia An A formula for densities of transition functions. **89m:60179**

Items with secondary classifications in 60J35

Almazov, M. Finding the explicit form of the transition density of the solution of a stochastic diffusion equation with a piecewise constant drift coefficient. (Russian) **89d:60100**

Bakry, Dominique Transformations de Riesz pour les semi-groupes symétriques. I. Étude de la dimension 1. [Riesz transforms for symmetric semigroups. I. Study of dimension 1] **89h:42022**

— Une remarque sur les inégalités de Littlewood-Paley sous l'hypothèse $\Gamma_2 \geq 0$. [A remark on Littlewood-Paley inequalities under the condition $\Gamma_2 \geq 0$] **89h:42025**

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Crank, Keith N. A method for approximating the probability functions of a Markov chain. **89m:60171**

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Emery, Michel (*with* Yukich, J. E.) A simple proof of the logarithmic Sobolev inequality on the circle. **89f:26020**

— *see also* **Bakry, Dominique, 89b:60182**

Gibert, Steve (*with* Mukherjea, Arunava) Nonnegative idempotent kernels. **89m:60149**

Glover, Joseph (*with* Rao, Murali) Symmetrizations of Markov processes. **89e:60144**

Lakatos, László On inhomogeneous Markov chain with bounded positive jumps and homogeneous second component. **89g:60231**

Mukherjea, Arunava *see* **Gibert, Steve, 89m:60149**

Perel'muter, M. A. (*with* Semenov, Yu. A.) Probability-preserving elliptic operators. (Russian) **89h:35089**

Pinsky, Ross The dead core for reaction-diffusion equations with convection and its connection with the first exit time of the related Markov diffusion process. **89h:35161**

Rao, Murali *see* **Glover, Joseph, 89e:60144**

Semenov, Yu. A. *see* **Perel'muter, M. A., 89h:35089**

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Yukich, J. E. *see* **Emery, Michel, 89f:26020**

60J40 Hunt processes

Betz, Cristina Some properties of an extended local Feynman-Kac semigroup. (Spanish summary) **89c:60086**

Chung, Kai Lai (*with* Rao, Murali) General gauge theorem for multiplicative functionals. **89d:60136**

Liu, Lu Qin Some theorems on the existence of dual processes. (Chinese) **89e:60143**

Maisonneuve, Bernard Strict past conditioning at arbitrary times. **89h:60120**

Mazziotto, G. Two-parameter Hunt processes and a potential theory. **89j:60105**

Rao, Murali *see* **Chung, Kai Lai, 89d:60136**

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Bendikov, A. D. (*with* Pavlov, I. V.) The Wiener process with reflection, and harmonic functions with a finite energy integral. **89m:60180**

Boboc, N. (*with* Bucur, Gh.) On a Hunt hypothesis. **89d:31016**

Bucur, Gh. *see* **Boboc, N., 89d:31016**

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Getoor, R. K. (*with* Steffens, J.) The energy functional, balayage, and capacity. (French summary) **89b:60178**

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Graversen, S. E. (*with* Rao, Murali) On a theorem of Cartan. **89b:60179**

Liao, Ming *see* **Chung, Kai Lai; et al., 89b:60176**

Meyer, P.-A. Sur l'interprétation probabiliste de l'énergie. [On the probabilistic interpretation of energy] **89f:60088**

Pavlov, I. V. *see* **Bendikov, A. D., 89m:60180**

Pop-Stojanović, Z. R. Thinness and hyperthinness. **89c:60089**

Rao, Murali *see* **Chung, Kai Lai; et al., 89b:60176; Graversen, S. E., 89b:60179** *and* **Glover, Joseph, 89h:60121**

Steffens, J. Excessive measures and the existence of right semigroups and processes. **89e:60146**

— *see also* **Getoor, R. K., 89b:60178**

60J45 Probabilistic potential theory [see also 31–XX]

Bendikov, A. D. Markov processes and partial differential equations on a group: the spatially homogeneous case. (Russian) **89f:60085**

— (*with* Pavlov, I. V.) The Wiener process with reflection, and harmonic functions with a finite energy integral. **89m:60180**

Burdzy, Krzysztof Brownian excursions and minimal thinness. III. Applications to the angular derivative problem. **89b:60175**

— On Brownian paths connecting boundary points. **89f:60086**

Chung, Kai Lai (*with* Liao, Ming; Rao, Murali) Duality under a new setting. **89b:60176**

— Conditional gauges. **89g:60236**

— Probability methods in potential theory. (*see* **89m:31001**)

Cranston, M. On the means of approach to the boundary of Brownian motion. **89a:60175**

Dellacherie, C. Théorie générale du balayage. [General theory of balayage] **89c:60087**

Fitzsimmons, P. J. On two results in the potential theory of excessive measures. **89b:60177**

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— Penetration times and Skorohod stopping. **89k:60109**

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Fukushima, Masatoshi On holomorphic diffusions and plurisubharmonic functions. **89g:60237**

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— Some remarks on measures associated with homogeneous random measures. **89f:60087**

— (*with* Steffens, J.) The energy functional, balayage, and capacity. (French summary) **89b:60178**

— *see also* **Fitzsimmons, P. J., 89k:60110**

Glover, Joseph Probability and differential equations. **89j:60106**

— (*with* Rao, Murali) Symmetrizations of Markov processes. **89e:60144**

— (*with* Rao, Murali) Nonsymmetric Markov processes and hypothesis (H). **89h:60121**

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Itô, Masayuki[1] Diffusion kernels of logarithmic type. **89m:60181**

Kim, Jai Heui Stochastic calculus related to nonsymmetric Dirichlet forms. **89k:60111**

— Probabilistic interpretation of nonsymmetric Dirichlet forms. **89k:60112**

Komatsu, Takashi Continuity estimates for solutions of parabolic equations associated with jump type Dirichlet forms. **89m:60182**

Liao, Ming *see* **Chung, Kai Lai; et al., 89b:60176**

March, P. Probabilistic interpretation of Hadamard's variational formulas. **89i:60150**

Meyer, P.-A. Sur l'interprétation probabiliste de l'énergie. [On the probabilistic interpretation of energy] **89f:60088**

Ōshima, Yōichi On central limit theorem for continuous additive functional of zero energy **89g:60238**

Pavlov, I. V. *see* **Bendikov, A. D., 89m:60180**

Pop-Stojanović, Z. R. Thinness and hyperthinness. **89c:60089**

— Continuity of excessive harmonic functions for certain diffusions. **89e:60145**

Rao, Murali Capacitary inequalities for energy. **89j:60107**

— Hunt's hypothesis for Lévy processes. **89i:60151**

— *see also* **Chung, Kai Lai; et al., 89b:60176; Graversen, S. E., 89b:60179; Glover, Joseph, 89e:60144** *and* **89h:60121**

Steffens, J. Excessive measures and the existence of right semigroups and processes. **89e:60146**

— *see also* **Getoor, R. K., 89b:60178**

Stoica, Lucretiu A class of sets which are thin with respect to a point in the Martin boundary of the half-space. **89b:60180**

Syski, R. Markov processes and teletraffic. **89k:60113**

Willis, G. A. The boundary associated with a probability measure on a group. **89m:60183**

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Baxter, John Robert (*with* Dal Maso, Gianni; Mosco, U.) Stopping times and Γ-convergence. **89b:35061**

Burdzy, Krzysztof ★ Multidimensional Brownian excursions and potential theory. **89d:60146**

— Convergence of 2-dimensional h-processes. **89c:60094**

Caballero, Maria E. Estimation de mesures harmoniques et applications aux fonctions entières. (English summary) [Estimates for harmonic measures and applications to entire functions] **89f:60095**

Charlot, F. Sur la démonstration des formules en théorie discrète du potentiel. [On the proof of formulas in discrete potential theory] **89h:31011**

Dal Maso, Gianni *see* **Baxter, John Robert; et al., 89b:35061**

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Fitzsimmons, P. J. (*with* Getoor, R. K.) Revuz measures and time changes. **89h:60124**

Fukushima, Masatoshi A note on capacities in infinite dimensions. **89d:60147**

Getoor, R. K. *see* **Fitzsimmons, P. J., 89h:60124**

Gevorkyan, U. Z. *see* **Sarafyan, V. V., 89b:60169**

Golden, Kenneth M. (*with* Goldstein, Sheldon; Lebowitz, Joel L.) Nash estimates and the asymptotic behavior of diffusions. **89f:60093**

Goldstein, Sheldon *see* **Golden, Kenneth M.; et al., 89f:60093**

Hsieh, Nan Jui Collisions of Lévy processes. **89k:60106**

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Le Gall, J.-F. Sur une conjecture de M. Kac. (English summary) [On a conjecture of M. Kac] **89m:60195**

Le Jan, Y. On the Fock space representation of functionals of the occupation field and their renormalization. **89k:60100**

Li, Zhi Chan Decomposition, representation and extension of the harmonic functions. **89f:31002**

Mazziotto, G. Two-parameter Hunt processes and a potential theory. **89j:60105**

Meyer, P.-A. *see* **Dellacherie, C., 89b:60002** *and* **89j:60001**

Mosco, U. *see* **Baxter, John Robert; et al., 89b:35061**

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(Norris, James) *see* **Dellacherie, C., 89b:60002**

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Raugi, Albert Un théorème de Choquet-Deny pour les groupes moyennables. (English summary) [A Choquet-Deny theorem for amenable groups] **89f:60012**

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Sharpe, Michael ★ General theory of Markov processes. **89m:60169**

Vitale, R. A. *see* **Port, S. C., 89d:60026**

60J50 Boundary theory

Picardello, Massimo A. (*with* Woess, Wolfgang) Martin boundaries of random walks: ends of trees and groups. **89a:60177**

Woess, Wolfgang *see* **Picardello, Massimo A., 89a:60177**

Items with secondary classifications in 60J50

Burdzy, Krzysztof On Brownian paths connecting boundary points. **89f:60086**

Galambos, Janos (*with* Kátai, I.) Some remarks on random walks in multidimensional time. **89h:60145**

Graham, Carl The martingale problem with sticky reflection conditions, and a system of particles interacting at the boundary. (French summary) **89k:60075**

Kaspi, Haya Random time changes for processes with random birth and death. **89f:60080**

Kátai, I. *see* **Galambos, Janos, 89h:60145**

Picardello, Massimo A. (*with* Sjögren, Peter) The minimal Martin boundary of a Cartesian product of trees. **89i:31012**

Sjögren, Peter *see* **Picardello, Massimo A., 89i:31012**

Willis, G. A. The boundary associated with a probability measure on a group. **89m:60183**

60J55 Local time and additive functionals

Barlow, M. T. Necessary and sufficient conditions for the continuity of local time of Lévy processes. **89k:60114**

Bertoin, Jean Applications des processus de Dirichlet aux temps locaux et temps locaux d'intersection d'un mouvement brownien. (English summary) [Applications of Dirichlet processes to the local times and local times of intersection of a Brownian motion] **89m:60184**

Borodin, A. N. On the weak convergence to Brownian local time. **89g:60239**

— A weak invariance principle for local times. **89a:60178**

Csáki, Endre (*with* Földes, Antónia) A note on the stability of the local time of a Wiener process. **89j:60108**

Davis, Burgess On the Barlow-Yor inequalities for local time. **89h:60122**

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Florens-Zmirou, Danièle Statistiques de diffusions et temps local. (English summary) [Statistics of diffusions and local time] **89f:60089**

Földes, Antónia *see* **Csáki, Endre, 89j:60108**

Getoor, R. K. *see* **Fitzsimmons, P. J., 89h:60124**

Kaspi, Haya (*with* Maisonneuve, Bernard) Predictable local times and exit systems. **89k:60115**

Le Gall, J.-F. Sur le temps local d'intersection du mouvement brownien plan et la méthode de renormalisation de Varadhan. [On the local time of intersection of Brownian motion in the plane and Varadhan's renormalization method] **89d:60137**

— Temps locaux d'intersection et points multiples des processus de Lévy. [Local intersection times and multiple points of Lévy processes] **89g:60240**

Le Jan, Y. Temps local et superchamp. [Local times and superfields] **89h:60125**

Maisonneuve, Bernard *see* **Kaspi, Haya, 89k:60115**

McGill, Paul Beyond the Ray-Knight theorem. **89f:60090**

Rosen, Jay A renormalized local time for multiple intersections of planar Brownian motion. **89f:60091**

Yor, Marc Précisions sur l'existence et la continuité des temps locaux d'intersection du mouvement brownien dans $\mathbf{R}^2$. [Improved results on the existence and continuity of intersection local times for Brownian motion in $\mathbf{R}^2$] **89h:60126**

Items with secondary classifications in 60J55

Azaïs, J.-M. Conditions pour la convergence du nombre de franchissements vers le temps local. Application aux processus gaussiens et stables. (English summary) [Conditions for convergence of the numbers of crossings to the local time. Application to stable Gaussian processes] **89h:60063**

Bass, R. F. Occupation time densities for stable-like processes and other pure jump Markov processes. **89i:60142**

Berman, Simeon M. The modulator of the local time. **89d:60074**

Bertoin, Jean Temps locaux et intégration stochastique pour les processus de Dirichlet. [Local times and stochastic integration for Dirichlet processes] **89g:60177**

Biane, Ph. (*with* Le Gall, J.-F.; Yor, Marc) Un processus qui ressemble au pont brownien. [A process similar to the Brownian bridge] **89d:60145**

Brossard, Jean Densité de l'intégrale d'aire dans $\mathbf{R}_+^{n+1}$ et limites non tangentielles. (English summary) [Density of the area integral in $\mathbf{R}_+^{n+1}$ and nontangential limits] **89h:31008**

Burdzy, Krzysztof ★ Multidimensional Brownian excursions and potential theory. **89d:60146**

Chung, Kai Lai (*with* Hsu, Pei) Gauge theorem for the Neumann problem. **89i:60157**

Csáki, Endre (*with* Földes, Antónia; Kasahara, Yuji) Around Yor's theorem on the Brownian sheet and local time. **89i:60085**

Csörgő, Miklós (*with* Horváth, Lajos; Révész, P.) Stability and instability of local time of random walk in random environment. **89c:60078**

Day, Martin V. Boundary local time and small parameter exit problems with characteristic boundaries. **89m:60185**

Dynkin, E. B. Self-intersection gauge for random walks and for Brownian motion. **89f:60053**

— Superprocesses and their linear additive functionals. **89k:60124**

Fitzsimmons, P. J. Homogeneous random measures and a weak order for the excessive measures of a Markov process. **89c:60088**

Földes, Antónia *see* **Csáki, Endre; et al., 89i:60085**

Getoor, R. K. Some remarks on measures associated with homogeneous random measures. **89f:60087**

Graham, Carl The martingale problem with sticky reflection conditions, and a system of particles interacting at the boundary. (French summary) **89k:60075**

Horváth, Lajos *see* **Csörgő, Miklós; et al., 89c:60078**

Hsieh, Nan Jui *see* **Kuo, Hui-Hsiung, 89e:60156**

Hsu, Pei (*with* March, P.) Brownian excursions from extremes. **89k:60120**

— *see also* **Chung, Kai Lai, 89i:60157**

Hu, Yao Zhong (*with* Meyer, P.-A.) Chaos de Wiener et intégrale de Feynman. [Wiener chaos and the Feynman integral] **89m:60193**

Jacka, S. D. A maximal inequality for martingale local times. **89d:60088**

Kasahara, Yuji *see* **Csáki, Endre; et al., 89i:60085**

Kaspi, Haya (*with* Mitro, Joanna B.) Homogeneous random measures for Markov processes in weak duality: study via an entrance boundary. **89i:60143**

Kim, Jai Heui Stochastic calculus related to nonsymmetric Dirichlet forms. **89k:60111**

Knight, F. B. Inverse local times, positive sojourns, and maxima for Brownian motion. **89m:60194**

Kuo, Hui-Hsiung (*with* Hsieh, Nan Jui) A generalized Itô's formula for multidimensional Brownian motions and its applications. **89e:60156**

Le Gall, J.-F. The exact Hausdorff measure of Brownian multiple points. **89a:60188**

— *see also* **Biane, Ph.; et al., 89d:60145**

Mandelbaum, Avi Continuous multi-armed bandits and multiparameter processes. **89b:62169**

March, P. *see* **Hsu, Pei, 89k:60120**

McGill, Paul Integral representation of martingales in the Brownian excursion filtration. **89e:60157**

Meyer, P.-A. Sur l'interprétation probabiliste de l'énergie. [On the probabilistic interpretation of energy] **89f:60088**

— *see also* **Hu, Yao Zhong, 89m:60193**

Mitro, Joanna B. Discontinuous time changes and duality for Markov processes. **89d:60131**

— *see also* **Kaspi, Haya, 89i:60143**

Monrad, Ditlev (*with* Pitt, L. D.) Local nondeterminism and Hausdorff dimension. **89d:60077**

Mountford, T. S. An extension of a result of Kahane using Brownian local times of intersection. **89m:60197**

Nasyrov, F. S. On the local time derivative with respect to a space variable for the Brownian sheet. (Russian) **89h:60140**

Ōshima, Yōichi On central limit theorem for continuous additive functional of zero energy. **89g:60238**

Pitt, L. D. *see* **Monrad, Ditlev, 89d:60077**

Révész, P. *see* **Csörgő, Miklós; et al., 89c:60078**

Rosen, Jay Continuity and singularity of the intersection local time of stable processes in $\mathbf{R}^2$. **89a:60173**

— Limit laws for the intersection local time of stable processes in $\mathbf{R}^2$. **89f:60029**

Rutkowski, Marek Strong solutions of stochastic differential equations involving local times. **89b:60142**

Sanz, Marta Local time for two-parameter continuous martingales with respect to the quadratic variation. **89f:60048**

Sharpe, Michael ★ General theory of Markov processes. **89m:60169**

Shashiashvili, M. A. On the variation of the difference of singular components in the Skorokhod problem and on stochastic differential systems in a half-space. **89m:60112**

Taksar, Michael Stationary Markov sets. **89e:60103**

Yan, Jia An A change of variables formula for local times of semimartingales. (Chinese) (Not in MR)

Yang, Wei-Shih Renormalization of a self-avoiding Brownian motion in two dimensions. **89m:60121**

Yor, Marc Sur la représentation comme intégrales stochastiques des temps d'occupation du mouvement Brownien dans $\mathbf{R}^d$. [On the representation via stochastic integrals of the occupation times of Brownian motion in $\mathbf{R}^d$] **89g:60254**

— *see also* **Biane, Ph.; et al., 89d:60145**

60J57 Multiplicative functionals

Items with secondary classifications in 60J57

Betz, Cristina Some properties of an extended local Feynman-Kac semigroup. (Spanish summary) **89c:60086**

Chung, Kai Lai (*with* Rao, Murali) General gauge theorem for multiplicative functionals. **89d:60136**

Fitzsimmons, P. J. (*with* Getoor, R. K.) Revuz measures and time changes. **89h:60124**

Getoor, R. K. *see* **Fitzsimmons, P. J., 89h:60124**

Rao, Murali *see* **Chung, Kai Lai, 89d:60136**

Sharpe, Michael ★ General theory of Markov processes. **89m:60169**

60J60 Diffusion processes [see also 58G32]

Bakry, Dominique (*with* Emery, Michel) Propaganda for Γ_2. **89b:60182**

Baldi, Paolo (*with* Chaleyat-Maurel, M.) Sur l'équivalent du module de continuité des processus de diffusion. [On the equivalent of the modulus of continuity of diffusion processes] **89e:60147**

Bañuelos, Rodrigo On an estimate of Cranston and McConnell for elliptic diffusions in uniform domains. **89c:60090**

Barlow, M. T. (*with* Perkins, Edwin A.) Brownian motion on the Sierpiński gasket. **89g:60241**

Bass, R. F. (*with* Pardoux, É.) Uniqueness for diffusions with piecewise constant coefficients. **89b:60183**

van Beijeren, H. How does one characterize macroscopic diffusion? (*see* **89e:60005**)

Bendikov, A. D. (*with* Pavlov, I. V.) Diffusion processes on the group T^∞ and elliptic equations of infinitely many variables. **89f:60092**

Blanchard, Ph. (*with* Zheng, Wei An) Pathwise conservation law for stationary diffusion processes. **89d:60138**

— (*with* Zheng, Wei An) Stochastic variational principle and diffusion processes. **89d:60139**

— (*with* Golin, Simon) Diffusion processes with singular drift fields. **89a:60179**

Buonocore, A. (*with* Nobile, A. G.; Ricciardi, Luigi M.) A new integral equation for the evaluation of first-passage-time probability densities. **89d:60140**

Burkhardt, G. (*with* Küchler, U.) The semimartingale decomposition of one-dimensional quasidiffusions with natural scale. **89g:60242**

Cattiaux, Patrick Time reversal of diffusion processes with a boundary condition. **89g:60243**

Chaleyat-Maurel, M. *see* **Baldi, Paolo, 89e:60147**

Chiang, Tsu Shu (*with* Sheu, Shuenn Jyi) Large deviation of some infinite-dimensional Markov processes. **89a:60180**

Cohn, Harry Limit behaviour for stochastic monotonicity and applications. **89c:60091**

Dawson, D. A. (*with* Gärtner, Jürgen) Large deviations from the McKean-Vlasov limit for weakly interacting diffusions. **89c:60092**

Day, Martin V. Boundary local time and small parameter exit problems with characteristic boundaries. **89m:60185**

DeBlassie, R. Dante Doob's conditioned diffusions and their lifetimes. **89i:60153**

Efimenko, S. V. The number of crossings of a level, separating inhomogeneous media, by a generalized diffusion process. (Russian) **89j:60109**

Elliott, Robert J. (*with* Kohlmann, Michael) A short proof of a martingale representation result. **89a:60181**

Emery, Michel *see* **Bakry, Dominique, 89b:60182**

Engelbert, H. J. (*with* Schmidt, Wolfgang Michael) On the behaviour of certain Bessel functionals. An application to a class of stochastic differential equations. **89b:60184**

Ethier, S. N. (*with* Nagylaki, Thomas) Diffusion approximations of Markov chains with two time scales and applications to population genetics. II. **89i:60154**

Franchi, Jacques Produits semi-directs de diffusions réelles et lois asymptotiques. (English summary) [Skew-products of real diffusions and asymptotic laws] **89b:60185**

Fujisaka, Hirokazu (*with* Inoue, Masayoshi) Statistical-thermodynamics formalism of self-similarity. **89g:60244**

Funaki, Tadahisa Construction of stochastic processes associated with the Boltzmann equation and its applications. **89a:60182**

Funke, R. A nonlinear diffusion with hyper-gamma distribution. **89m:60186**

Gärtner, Jürgen *see* **Dawson, D. A., 89c:60092**

Golden, Kenneth M. (*with* Goldstein, Sheldon; Lebowitz, Joel L.) Nash estimates and the asymptotic behavior of diffusions. **89f:60093**

Goldstein, Sheldon *see* **Golden, Kenneth M.; et al., 89f:60093**

Golin, Simon *see* **Blanchard, Ph., 89a:60179**

Groh, Jürgen Stochastic analysis for one-dimensional martingale diffusions. **89e:60148**

Guo, Mao Zheng (*with* Papanicolaou, George C.) Self-diffusion of interacting Brownian particles. **89g:60245**

Huang, Hai (*with* Kushner, Harold J.) Weak convergence and approximations for partial differential equations with stochastic coefficients. **89a:60183**

Ikeda, Nobuyuki Limit theorems for a class of random currents. **89b:60186**

Inoue, Masayoshi *see* **Fujisaka, Hirokazu, 89g:60244**

Kawazu, K. (*with* Tamura, Yozo; Tanaka, Hiroshi[1]) One-dimensional diffusions and random walks in random environments. **89g:60246**

Keller, Gerhard (*with* Kersting, G.; Rösler, Uwe) On the asymptotic behaviour of first passage times for discussions [diffusions]. **89d:60141**

Kersting, G. *see* **Keller, Gerhard; et al., 89d:60141**

Kohlmann, Michael *see* **Elliott, Robert J., 89a:60181**

Küchler, U. *see* **Burkhardt, G., 89g:60242**

Kushner, Harold J. *see* **Huang, Hai, 89a:60183**

Kusuoka, Shigeo A diffusion process on a fractal. **89e:60149**

— (*with* Stroock, Daniel W.) Applications of the Malliavin calculus. III. **89c:60093**

Léandre, Rémi Intégration dans la fibre associée à une diffusion dégénérée. [Integration in the fiber associated with a degenerate diffusion] **89g:60247**

Lebowitz, Joel L. *see* **Golden, Kenneth M.; et al., 89f:60093**

Lehmann, Axel (*with* Thiele, Burkhard; Tiedge, Jürgen) Transformierte des Wienerprozesses zur Modellierung von Verschleißprozessen. [Transforms of the Wiener process for the modelling of attrition processes] **89k:60116**

Ma, Zhi Ming (*with* Song, Ren Ming) Probabilistic approach to the Neumann problem with infinite gauge. **89h:60127**

Maes, D. (*with* Van den Broeck, C.) Discrete versus continuous-time random walks. **89i:60155**

Meyer, P.-A. (*with* Zheng, Wei An) Construction de processus de Nelson réversibles. [Construction of reversible Nelson processes] **89b:60187**

— *see also* **Zheng, Wei An, 89h:60135**

Mikulevičius, R. (*with* Pragarauskas, H.) Green measures of Itô processes. (Russian. English and Lithuanian summaries) **89h:60128**

Nagasawa, Masao (*with* Tanaka, Hiroshi[1]) On the propagation of chaos for diffusion processes with drift coefficient not of average form. **89a:60184**

Nagylaki, Thomas *see* **Ethier, S. N., 89i:60154**

Negoro, Akira (*with* Tsuchiya, Masaaki) Convergence and uniqueness theorems for Markov processes associated with Lévy operators. **89d:60142**

Nobile, A. G. *see* **Buonocore, A.; et al., 89d:60140**

Øksendal, Bernt Using random motion to study quasiregular functions. **89h:60129**

— Dirichlet forms, quasiregular functions and Brownian motion. **89d:60143**

Osada, Hirofumi Diffusion processes with generators of generalized divergence form. **89b:60188**

Ōshima, Yōichi On absolute continuity of two symmetric diffusion processes. **89a:60185**

Papanicolaou, George C. *see* **Guo, Mao Zheng, 89g:60245**

Pardoux, É. Grossissement d'une filtration et retournement du temps d'une diffusion. [Enlargement of a filtration and time reversal of a diffusion] **89e:60150**

— *see also* **Bass, R. F., 89b:60183**

Pavlov, I. V. *see* **Bendikov, A. D., 89f:60092**

Perkins, Edwin A. *see* **Barlow, M. T., 89g:60241**

Pinsky, Ross A minimax variational formula giving necessary and sufficient conditions for recurrence or transience of multidimensional diffusion processes. **89j:60110**

— Hypercontractivity estimates for nonselfadjoint diffusion semigroups. **89m:60187**

Pontier, Monique (*with* Szpirglas, J.) Convergence des approximations de McShane d'une diffusion sur une variété compacte. [Convergence of McShane approximations of a diffusion on a compact manifold] **89h:60130**

Pragarauskas, H. *see* **Mikulevičius, R., 89h:60128**

Ramasubramanian, S. Hitting of submanifolds by diffusions. **89h:60131**

Ricciardi, Luigi M. (*with* Sato, Shunsuke) First-passage-time density and moments of the Ornstein-Uhlenbeck process. **89b:60189**

— *see also* **Buonocore, A.; et al., 89d:60140**

Rogers, L. C. G. (*with* Williams, David) ★ Diffusions, Markov processes, and martingales. Vol. 2. **89k:60117**

Rösler, Uwe *see* **Keller, Gerhard; et al., 89d:60141**

Sato, Shunsuke *see* **Ricciardi, Luigi M., 89b:60189**

Schmidt, Wolfgang Michael *see* **Engelbert, H. J., 89b:60184**

Sheu, Shuenn Jyi *see* **Chiang, Tsu Shu, 89a:60180**

Song, Ren Ming *see* **Ma, Zhi Ming, 89h:60127**

Stroock, Daniel W. *see* **Kusuoka, Shigeo, 89c:60093**

Szpirglas, J. *see* **Pontier, Monique, 89h:60130**

Takanobu, Satoshi (*with* Watanabe, Shinzo) On the existence and uniqueness of diffusion processes with Wentzell's boundary conditions. **89f:60094**

Takeda, Masayoshi Tightness property for symmetric diffusion processes. **89h:60132**

Tamura, Yozo Free energy and the convergence of distributions of diffusion processes of McKean type. **89e:60151**

— *see also* **Kawazu, K.; et al., 89g:60246**

Tanaka, Hiroshi[1] Limit distributions for one-dimensional diffusion processes in self-similar random environments. **89h:60133**

— *see also* **Nagasawa, Masao, 89a:60184** *and* **Kawazu, K.; et al., 89g:60246**

Thiele, Burkhard *see* **Lehmann, Axel; et al., 89k:60116**

Tiedge, Jürgen *see* **Lehmann, Axel; et al., 89k:60116**

Tsuchiya, Masaaki *see* **Negoro, Akira, 89d:60142**

Van den Broeck, C. *see* **Maes, D., 89i:60155**

Watanabe, Shinzo *see* **Takanobu, Satoshi, 89f:60094**

Wenocur, Michael L. Diffusion first passage times: approximations and related differential equations. **89d:60144**

Williams, David *see* **Rogers, L. C. G., 89k:60117**

Wu, Li Ming Inégalité de Sobolev sur l'espace de Poisson. [The Sobolev inequality on Poisson space] **89k:60118**

Yamazato, M. Characterization of the class of upward first passage time distributions of birth and death processes and related results. **89g:60248**

Yan, Jia An On the existence of diffusions with singular drift coefficient. **89h:60134**

Yurinskiĭ, V. V. On the error of averaging of multidimensional diffusions. **89e:60152**

Zambrini, J.-C. New probabilistic approach to the classical heat equation. **89m:60188**

Zheng, Wei An (*with* Meyer, P.-A.) Sur la contruction de certaines diffusions. [On the construction of certain diffusions] **89h:60135**

— *see also* **Meyer, P.-A., 89b:60187; Blanchard, Ph., 89d:60138** *and* **89d:60139**

Items with secondary classifications in 60J60

Almazov, M. Behavior of the solution of a stochastic diffusion equation under unbounded growth of the drift coefficient on a finite segment. (Russian) **89g:60181**

Balakrishnan, Venkataraman (*with* Van den Broeck, C.; Hanggi, P.) First-passage times of non-Markovian processes: the case of a reflecting boundary. **89m:82024**

Baldi, Paolo (*with* Chaleyat-Maurel, M.) An extension of Ventsel′-Freidlin estimates. **89i:60121**

Baublitz, Millard, Jr. Derivation of the Schrödinger equation from a stochastic theory. **89i:81025**

Ben Arous, G. Noyau de la chaleur hypoelliptique et géométrie sous-riemannienne. [The hypoelliptic heat kernel and sub-Riemannian geometry] **89k:35054**

Borkar, V. S. The probabilistic structure of controlled diffusion processes. **89g:93108a**

— Errata: "The probabilistic structure of controlled diffusion processes". **89g:93108b**

Bouton, Catherine Approximation gaussienne d'algorithmes stochastiques à dynamique markovienne. (English summary) [Gauss approximation of stochastic algorithms with Markov dynamics] **89g:60223**

Buonomano, V. (*with* Prado de Andrade, A. F.) Stochastic processes for indirectly interacting particles and stochastic quantum mechanics. **89h:81043**

Carlen, Eric A. (*with* Stroock, Daniel W.) An application of the Bakry-Emery criterion to infinite-dimensional diffusions. **89h:60167**

Chaleyat-Maurel, M. (*with* Michel, Dominique) The support of the law of a filter in C^∞ topology. **89f:60044**

— *see also* **Baldi, Paolo, 89i:60121**

Cherkasov, I. D. Transformation of one-dimensional diffusion fields on the plane. (Russian) **89j:60067**

Cranston, M. (*with* Zhao, Zhong Xin) Conditional transformation of drift formula and potential theory for $\frac{1}{2}\Delta + b(\cdot)\cdot\nabla$. **89g:35030**

Davis, M. H. A. The Wiener space derivative for functionals of diffusions on manifolds. **89i:60116**

Dembo, A. *see* **Zeitouni, O., 89g:93100**

Deuschel, J.-D. Central limit theorem for an infinite lattice system of interacting diffusion processes. **89f:60022**

Doss, Halim (*with* Dozzi, M.) Estimations de grandes déviations pour les processus de diffusion à paramètre multidimensionnel. [Estimates of large deviations for diffusion processes with a multidimensional parameter] **89g:60093**

Dozzi, M. *see* **Doss, Halim, 89g:60093**

Durbin, James Correction: "The first passage density of a continuous Gaussian process to a general boundary" [J. Appl. Probab. 22 (1985), no. 1, 99–122; MR 86h:60083]. **89i:60080**

Feyel, Denis (*with* de La Pradelle, A.) Perturbations complexes de diffusions. (English summary) [Complex perturbations of diffusions] **89a:35062**

Fleming, W. H. (*with* Vermes, Domokos) Generalized solutions in the optimal control of diffusions. **89k:93223**

Florens-Zmirou, Danièle Statistiques de diffusions et temps local. (English summary) [Statistics of diffusions and local time] **89f:60089**

Freĭdlin, M. I. Random perturbations of reaction-diffusion equations: the quasideterministic approximation. **89f:35110**

Fritz, J. Gradient dynamics of infinite point systems. **89a:60239**

Fukushima, Masatoshi On holomorphic diffusions and plurisubharmonic functions. **89g:60237**

Funaki, Tadahisa The central limit theorem for the spatially homogeneous Boltzmann equation. **89d:60039**

Galves, A. (*with* Olivieri, Enzo; Vares, M. E.) Metastability for a class of dynamical systems subject to small random perturbations. **89a:60142**

Giorno, V. (*with* Nobile, A. G.; Ricciardi, Luigi M.) On some time-nonhomogeneous diffusion approximations to queueing systems. **89a:60218**

Grzybowski, H. Tomasz Nonequilibrium diffusion as a Markov process. **89k:82049**

Guo, Mao Zheng (*with* Papanicolaou, George C.; Varadhan, Srinivasa R. S.) Nonlinear diffusion limit for a system with nearest neighbor interactions. **89m:60255**

Hanggi, P. *see* **Balakrishnan, Venkataraman; et al., 89m:82024**

Hermoso Carazo, A. *see* **Molina Fernández, M., 89i:62134**

Huang, Li Ping Weak convergence of a class of jump processes. (Chinese. English summary) **89b:60087**

Ionin, L. L. (*with* Yanson, V. A.) Stabilization of dynamical systems with periodic coefficients by a diffusion process. (Russian) **89k:93219**

Karatzas, Ioannis (*with* Shreve, Steven E.) ★ Brownian motion and stochastic calculus. **89c:60096**

Klepikov, V. N. Action functional for a family of diffusion fields in the plane. (Russian) **89a:60150**

Konakov, V. D. Local limit theorems on the convergence of Markov chains to diffusion processes. (Russian) **89g:60077**

Konno, N. (*with* Shiga, Tokuzo) Stochastic partial differential equations for some measure-valued diffusions. **89i:60130**

Kotulski, Zbigniew On the Markovian model of turbulent diffusion. **89b:76023**

Koyama, Hideyuki Factorization of probability density for a certain diffusion processes and the applications to stochastic control. **89k:93227**

Krichagina, E. V. (*with* Liptser, R. Sh.; Pukhal′skiĭ, A. A.) Diffusion approximation for a system with an arrival stream that depends on the queue and with arbitrary service. **89f:60113**

Kuo, Hui-Hsiung Brownian motion, diffusions and infinite-dimensional calculus. **89h:60139**

de La Pradelle, A. *see* **Feyel, Denis, 89a:35062**

Lépingle, D. (*with* Marois, C.) Équations différentielles stochastiques multivoques unidimensionnelles. [One-dimensional multivalued stochastic differential equations] **89e:60125**

Liptser, R. Sh. *see* **Krichagina, E. V.; et al., 89f:60113**

Luczka, J. Relaxation problem with a quadratic noise: analysis. **89a:82018**

— A stochastic process driven by the quadratic Ornstein-Uhlenbeck noise: generator, propagators and all that. **89m:60137**

Maassen, Hans Theoretical concepts in quantum probability: quantum Markov processes. **89m:46105**

Mandelbaum, Avi Continuous multi-armed bandits and multiparameter processes. **89b:62169**

March, P. Probabilistic interpretation of Hadamard's variational formulas. **89i:60150**

Marias, Michel Littlewood-Paley-Stein theory and Bessel diffusions. (French summary) **89e:60142**

Marois, C. *see* **Lépingle, D., 89e:60125**

Meleard, Sylvie (*with* Roelly-Coppoletta, Sylvie) A propagation of chaos result for a system of particles with moderate interaction. **89e:60201**

Meyer, P.-A. Correction: "Stochastic differential geometry. II" [in *Séminaire de Probabilités, XVI, 1980/81, Supplément*, 165–207, Lecture Notes in Math., 921, Springer, Berlin, 1982; MR 84e:60083]. (French) **89e:60108**

Michel, Dominique *see* **Chaleyat-Maurel, M., 89f:60044**

Mishura, Yu. S. Sufficient conditions for the weak convergence of two-parameter semimartingales to fields of diffusion type. (Russian) **89e:60078**

Miyahara, Yoshio A theorem of the stability of nonlinear filtering systems. **89d:93102**

Molina Fernández, M. (*with* Hermoso Carazo, A.) Sequential inference in diffusion branching processes. (Spanish. English summary) **89i:62134**

Narita, Kiyomasa Necessary condition for explosion of second order Itô processes. (Japanese summary) **89a:60145**

— Probabilistic analysis in nonlinear differential equations with random disturbances and interactions. (Japanese summary) **89b:60155**

— Large deviation principle for diffusion processes. **89h:60044**

Nobile, A. G. *see* **Giorno, V.; et al., 89a:60218**

Norris, James What is stochastic calculus? (*see* **89k:60003**)

Oelschläger, Karl Homogenization of a diffusion process in a divergence-free random field. **89i:60108**

Olivieri, Enzo *see* **Galves, A.; et al., 89a:60142**

Papanicolaou, George C. *see* **Guo, Mao Zheng; et al., 89m:60255**

Perkins, Edwin A. A space-time property of a class of measure-valued branching diffusions. **89c:60064**

Picard, Jean Une classe de processus stable par retournement du temps. [A class of processes that is stable under time reversal] **89d:60106**

Prado de Andrade, A. F. *see* **Buonomano, V., 89h:81043**

Prakasa Rao, B. L. S. Law of iterated logarithm for fluctuation of posterior distributions for a class of diffusion processes and a sequential test of power one. **89g:60111**

Pukhal′skiĭ, A. A. *see* **Krichagina, E. V.; et al., 89f:60113**

Ricciardi, Luigi M. *see* **Giorno, V.; et al., 89a:60218**

Roelly-Coppoletta, Sylvie *see* **Meleard, Sylvie, 89e:60201**

Safaryan, R. G. A class of random processes and the corresponding systems of differential equations. (Russian. Armenian summary) **89b:60143**

Sarafyan, V. V. (*with* Skorokhod, A. V.) Dynamical systems with fast switchings. (Russian) **89f:60064**

Schroeder, Carolyn Green's functions for the Schrödinger operator with periodic potential. **89g:35033**

Shiga, Tokuzo *see* **Konno, N., 89i:60130**

Shreve, Steven E. *see* **Karatzas, Ioannis, 89c:60096**

Skorokhod, A. V. *see* **Sarafyan, V. V., 89f:60064**

Stroock, Daniel W. *see* **Carlen, Eric A., 89h:60167**

Sviridenko, M. N. Martingale characterization of limit distributions in a space of functions without discontinuities of the second kind. **89i:60096**

Sznitman, Alain-Sol Grandes déviations. [Large deviations] **89h:60045**

Takanobu, Satoshi Diagonal short time asymptotics of heat kernels for certain degenerate second order differential operators of Hörmander type. **89i:35026**

Tanaka, Hiroshi[1] Stochastic differential equation corresponding to the spatially homogeneous Boltzmann equation of Maxwellian and noncutoff type. **89h:60098**

Tirapegui, E. (*with* Van den Broeck, C.) A thermochemical instability. II. Inhomogeneous fluctuations. **89m:80013**

Tomisaki, Matsuyo Power order decay of elementary solutions of generalized diffusion equations. **89f:35096**

— Asymptotic behavior of elementary solutions of transient generalized diffusion equations. **89k:35114**

Van den Broeck, C. *see* **Tirapegui, E., 89m:80013** *and* **Balakrishnan, Venkataraman; et al., 89m:82024**

Varadhan, Srinivasa R. S. *see* **Guo, Mao Zheng; et al., 89m:60255**

Vares, M. E. *see* **Galves, A.; et al., 89a:60142**

Vermes, Domokos *see* **Fleming, W. H., 89k:93223**

Yanson, V. A. *see* **Ionin, L. L., 89k:93219**

Zeitouni, O. (*with* Dembo, A.) An existence theorem and some properties of maximum a posteriori estimators of trajectories of diffusions. **89g:93100**

Zhang, Qing A note on a nonlinear semigroup for controlled partially observed diffusions. **89g:93114**

Zhao, Zhong Xin *see* **Cranston, M., 89g:35030**

60J65 Brownian motion [see also 58G32]

Biane, Ph. (*with* Le Gall, J.-F.; Yor, Marc) Un processus qui ressemble au pont brownien. [A process similar to the Brownian bridge] **89d:60145**

— (*with* Yor, Marc) Quelques précisions sur le méandre brownien. (English summary) [Some refinements of results on the Brownian meander] **89i:60156**

Bingham, N. H. (*with* Doney, R. A.) On higher-dimensional analogues of the arc-sine law. **89g:60249**

Brosamler, Gunnar A. Brownian occupation measures on compact manifolds. **89b:60190**

Burdzy, Krzysztof ★ Multidimensional Brownian excursions and potential theory. **89d:60146**

— Convergence of 2-dimensional h-processes. **89c:60094**

Caballero, Maria E. Estimation de mesures harmoniques et applications aux fonctions entières. (English summary) [Estimates for harmonic measures and applications to entire functions] **89f:60095**

Chaabane, F. Approximation d'un flot brownien sur le cercle. (English summary) [Approximation of a Brownian flow on the circle] **89m:60189**

Chauvin, Brigitte Martingales produits et lignes d'arrêt pour un processus de branchement brownien. (English summary) [Product martingales and stopping lines for a branching Brownian motion] **89b:60191**

Chen, Gui Jing (*with* Hong, Sheng Yan; Hu, Shu He) Some convergence problems about the increments of a Wiener process. **89b:60192**

Chung, Kai Lai Notes on the inhomogeneous Schrödinger equation. **89h:60136**

— (*with* Hsu, Pei) Gauge theorem for the Neumann problem. **89i:60157**

— (*with* Li, Peter; Williams, Ruth J.) Comparison of probability and classical methods for the Schrödinger equation. **89c:60095**

Cranston, M. (*with* Hsu, Pei; March, P.) Smoothness of the convex hull of planar Brownian motion. **89m:60190**

Csáki, Endre (*with* Földes, Antónia; Révész, P.) On the maximum of a Wiener process and its location. **89a:60186**

Davies, I. M. A "Brownian motion" with constant speed. **89m:60191**

Davis, Burgess (*with* Salisbury, Thomas S.) Connecting Brownian paths. **89j:60111**

— Conditioned Brownian motion in planar domains. **89j:60112**

DeBlassie, R. Dante Remark on: "Exit times from cones in $\mathbf{R}^n$ of Brownian motion" [Probab. Theory Related Fields **74** (1987), no. 1, 1–29; MR 88d:60205]. **89g:60250**

Doney, R. A. *see* **Bingham, N. H., 89g:60249**

Durbin, James A reconciliation of two different expressions for the first-passage density of Brownian motion to a curved boundary. **89j:60113**

Durran, Richard (*with* Truman, Aubrey) Brownian motion on hypersurfaces and computer simulation. **89j:60114**

Egorov, V. A. The law of the iterated logarithm for the quadratic variation of a Wiener process. **89a:60187**

Földes, Antónia *see* **Csáki, Endre; et al., 89a:60186**

Fukushima, Masatoshi A note on capacities in infinite dimensions. **89d:60147**

Gasanenko, V. A. A Wiener process in a narrow strip. (Russian) **89e:60153**

— A Wiener process in a thin region. **89g:60251**

Gong, Guang Lu (*with* Qian, Min Ping; Silverstein, Martin L.) Normal derivative for bounded domains with general boundary. **89m:60192**

Grill, K. On the last zero of a Wiener process. **89f:60096**

Hida, Takeyuki Generalized Gaussian measures. **89h:60137**

Hong, Sheng Yan *see* **Chen, Gui Jing; et al., 89b:60192**

Hsieh, Nan Jui *see* **Kuo, Hui-Hsiung, 89e:60156**

Hsu, Pei Brownian motion and Riemannian geometry. **89k:60119**

— (*with* March, P.) Brownian excursions from extremes. **89k:60120**

— *see also* **Chung, Kai Lai, 89i:60157** *and* **Cranston, M.; et al., 89m:60190**

Hsü, Shih Hsiung A convergence property of Dubins' representation of distributions. **89i:60158**

Hu, Shu He *see* **Chen, Gui Jing; et al., 89b:60192**

Hu, Yao Zhong Un nouvel exemple de distribution de Hida. [A new example of Hida distribution] **89j:60115**

— (*with* Meyer, P.-A.) Chaos de Wiener et intégrale de Feynman. [Wiener chaos and the Feynman integral] **89m:60193**

Imhof, J.-P. (*with* Kümmerling, P.) Operational derivation of some Brownian motion results. (French summary) **89h:60138**

— Heuristic approach to some laws for Brownian motion. (French summary) **89e:60154**

Karatzas, Ioannis (*with* Shreve, Steven E.) ★ Brownian motion and stochastic calculus. **89c:60096**

Karp, Leon (*with* Pinsky, Mark) Mean exit time from an extrinsic ball. **89e:60155**

Knight, F. B. Inverse local times, positive sojourns, and maxima for Brownian motion. **89m:60194**

Kümmerling, P. *see* **Imhof, J.-P., 89h:60138**

Kuo, Hui-Hsiung (*with* Hsieh, Nan Jui) A generalized Itô's formula for multidimensional Brownian motions and its applications. **89e:60156**

— Brownian motion, diffusions and infinite-dimensional calculus. **89h:60139**

Le Gall, J.-F. The exact Hausdorff measure of Brownian multiple points. **89a:60188**

— (*with* Taylor, Samuel James) The packing measure of planar Brownian motion. **89a:60189**

— Mouvement brownien, cônes et processus stables. (English summary) [Brownian motion, cones and stable processes] **89b:60193**

— Sur une conjecture de M. Kac. (English summary) [On a conjecture of M. Kac] **89m:60195**

— *see also* **Biane, Ph.; et al., 89d:60145**

Li, Peter *see* **Chung, Kai Lai; et al., 89c:60095**

Li, Xin Chun *see* **Zhuang, Xing Wu, 89e:60160**

March, P. *see* **Hsu, Pei, 89k:60120** *and* **Cranston, M.; et al., 89m:60190**

Matthews, Peter Covering problems for Brownian motion on spheres. **89a:60190**

McGill, Paul Integral representation of martingales in the Brownian excursion filtration. **89e:60157**

— (*with* Rajeev, B.; Rao, B. V.) Extending Lévy's characterisation of Brownian motion. **89g:60252**

McGregor, Malcolm T. A solution of the integral equation $\int_0^\infty(\sin((\pi/4)+\theta)e^{-\theta y}+\sin((\pi/4)-\theta)e^{\theta y})\Pi(x,y)\,dy=\sqrt{2}\cosh\theta x$ in convolution form and a problem in diffusion theory. **89m:60196**

Meyer, P.-A. (*with* Yan, Jia An) À propos des distributions sur l'espace de Wiener. [Concerning distributions on the Wiener space] **89i:60159**

— Une remarque sur les chaos de Wiener. [A remark on Wiener chaos] **89j:60116**

— *see also* **Hu, Yao Zhong, 89m:60193**

Molchan, G. M. Multiparameter Brownian motion. **89b:60194**

Mountford, T. S. Transience of a pair of local martingales. **89g:60253**

— An extension of a result of Kahane using Brownian local times of intersection. **89m:60197**

Nasyrov, F. S. On the local time derivative with respect to a space variable for the Brownian sheet. (Russian) **89h:60140**

Pantić, Dražen Stochastic calculus on distorted Brownian motion. **89d:60148**

Park, Chull (*with* Skoug, David) Conditional Yeh-Wiener integrals with vector-valued conditioning functions. **89m:60198**

Pinsky, Mark *see* **Karp, Leon, 89e:60155**

Qian, Min Ping *see* **Gong, Guang Lu; et al., 89m:60192**

Rajeev, B. *see* **McGill, Paul; et al., 89g:60252**

Rao, B. V. *see* **McGill, Paul; et al., 89g:60252**

Reiman, Martin I. (*with* Williams, Ruth J.) A boundary property of semimartingale reflecting Brownian motions. **89a:60191**

— (*with* Williams, Ruth J.) Correction to: "A boundary property of semimartingale reflecting Brownian motions" [Probab. Theory Related Fields **77** (1988), no. 1, 87–97; MR 89a:60191]. **89m:60199**

Révész, P. *see* **Csáki, Endre; et al., 89a:60186**

Saisho, Yasumasa (*with* Tanaka, Hiroshi[1]) On the symmetry of a reflecting Brownian motion defined by Skorohod's equation for a multidimensional domain. **89a:60192**

Salisbury, Thomas S. *see* **Davis, Burgess, 89j:60111**

Salminen, Paavo On the first hitting time and the last exit time for a Brownian motion to/from a moving boundary. **89i:60161**

Shimura, Michio Meandering points of two-dimensional Brownian motion. **89h:60141**

Shreve, Steven E. *see* **Karatzas, Ioannis, 89c:60096**

Silverstein, Martin L. *see* **Gong, Guang Lu; et al., 89m:60192**

Si Si A note on Lévy's Brownian motion. **89a:60193**

Skoug, David *see* **Park, Chull, 89m:60198**

Stadtmüller, Ulrich Kernel approximations of a Wiener process. **89b:60195**

Sznitman, Alain-Sol Propagation of chaos for a system of annihilating Brownian spheres. **89h:60142**

Tanaka, Hiroshi[1] *see* **Saisho, Yasumasa, 89a:60192**

Taylor, Samuel James *see* **Le Gall, J.-F., 89a:60189**

Tongring, Nils Which sets contain multiple points of Brownian motion? **89a:60194**

Truman, Aubrey *see* **Durran, Richard, 89j:60114**

van der Vecht, D. P. Ultimateness and the Azéma-Yor stopping time. **89e:60158**

Weinryb, Sophie (*with* Yor, Marc) Le mouvement brownien de Lévy indexé par $\mathbf{R}^3$ comme limite centrale de temps locaux d'intersection. [The $\mathbf{R}^3$-indexed Lévy Brownian motion as the central limit of local intersection times] **89j:60117**

Williams, Ruth J. *see* **Reiman, Martin I., 89a:60191; Chung, Kai Lai; et al., 89c:60095** *and* **Reiman, Martin I., 89m:60199**

Wu, Rong (*with* Zheng, Xue Xia) A class of residual time distributions related to Brownian motion. (Chinese) **89m:60200**

Yan, Jia An Développement des distributions suivant les chaos de Wiener et applications à l'analyse stochastique. [Expansion of distributions according to Wiener chaos and applications to stochastic analysis] **89i:60160**

— *see also* **Meyer, P.-A., 89i:60159**

Yor, Marc Renormalisation et convergence en loi pour les temps locaux d'intersection du mouvement brownien dans $\mathbf{R}^3$. [Renormalization and convergence in law for local times of intersection of Brownian motion in $\mathbf{R}^3$] **89b:60196**

— Sur la représentation comme intégrales stochastiques des temps d'occupation du mouvement Brownien dans $\mathbf{R}^d$. [On the representation via stochastic integrals of the occupation times of Brownian motion in $\mathbf{R}^d$] **89g:60254**

— *see also* **Biane, Ph.; et al., 89d:60145; 89i:60156** *and* **Weinryb, Sophie, 89j:60117**

Zhang, Chun Sheng Two-parameter time transformations. (Chinese) **89e:60159**

Zheng, Xue Xia *see* **Wu, Rong, 89m:60200**

Zhuang, Xing Wu (*with* Li, Xin Chun) On the continuity of sample functions of generalized Brownian sheets. (Chinese. English summary) **89e:60160**

Zou, Dong Ya Hitting point distributions of Brownian motions in certain sets. (Chinese. English summary) **89i:60162**

Items with secondary classifications in 60J65

Abate, Joseph (*with* Whitt, Ward) The correlation functions of RBM and $M/M/1$. **89g:60275**

Accardi, Luigi (*with* Parthasarathy, Kalyanapuram Rangachari) A martingale characterization of canonical commutation and anticommutation relations. **89e:81057**

Airault, H. (*with* Malliavin, Paul) Intégration géométrique sur l'espace de Wiener. (English summary) [Geometric integration on the Wiener space] **89f:60072**

Assaf, David A dynamic sampling approach for detecting a change in distribution. **89h:62162**

Attia, F. A. The control of a finite dam with penalty cost function: Wiener process input. **89e:60197**

Bañuelos, Rodrigo On an estimate of Cranston and McConnell for elliptic diffusions in uniform domains. **89c:60090**

Barba Escribá, Lourdes Properties of stopping times in the representation of variables. (Spanish. English summary) **89g:60150**

Barlow, M. T. (*with* Perkins, Edwin A.) Brownian motion on the Sierpiński gasket. **89g:60241**

Bass, R. F. L_p inequalities for functionals of Brownian motion. **89h:60072**

Bendler, John T. (*with* Dishon, Menachem; Kesten, Harry; Weiss, G. H.) A first passage time problem for random walk occupancy. **89m:82051**

Bertoin, Jean Applications des processus de Dirichlet aux temps locaux et temps locaux d'intersection d'un mouvement brownien. (English summary) [Applications of Dirichlet processes to the local times and local times of intersection of a Brownian motion] **89m:60184**

Borodin, A. N. On the weak convergence to Brownian local time. **89g:60239**

Bouleau, N. (*with* Hirsch, F. A.) Sur des propriétés du flot d'une équation différentielle stochastique. (English summary) [Remarks about the flow of a stochastic differential equation] **89a:60140**

Brosamler, Gunnar A. Un théorème limite central presque sûr pour les mesures d'occupation du mouvement brownien sur une variété riemannienne compacte. (English summary) [An almost everywhere central limit theorem for the occupation measures of Brownian motion on a compact Riemannian manifold] **89k:58294**

Burdzy, Krzysztof On Brownian paths connecting boundary points. **89f:60086**

— Harmonic measure on 3-dimensional Brownian paths. **89i:60084**

Calzolari, Antonella (*with* Costantini, Cristina; Marchetti, Federico) A confidence interval for Monte Carlo methods with an application to simulation of obliquely reflecting Brownian motion. **89h:65011**

Chavel, Isaac (*with* Feldman, Edgar A.; Rosen, Jay) Fluctuations of the Wiener sausage for surfaces. **89i:58154**

— (*with* Feldman, Edgar A.) Spectra of manifolds less a small domain. **89h:58195**
Costantini, Cristina *see* **Calzolari, Antonella; et al., 89h:65011**
Cranston, M. On the means of approach to the boundary of Brownian motion. **89a:60175**
Csáki, Endre (*with* Grill, K.) On the large values of the Wiener process. **89d:60055**
— (*with* Földes, Antónia) A note on the stability of the local time of a Wiener process. **89j:60108**
— (*with* Földes, Antónia) On the length of the longest flat interval. **89g:60234**
Dalang, Robert C. (*with* Russo, Francesco) A prediction problem for the Brownian sheet. **89h:60081**
Darling, R. W. R. (*with* Le Jan, Y.) The statistical equilibrium of an isotropic stochastic flow with negative Lyapounov exponents is trivial. **89j:60073**
Dawson, D. A. (*with* Iscoe, I.; Perkins, Edwin A.) Sample path properties of the support process of super-Brownian motion. **89a:60112**
DeBlassie, R. Dante Doob's conditioned diffusions and their lifetimes. **89i:60153**
Deheuvels, Paul (*with* Révész, P.) Weak laws for the increments of Wiener processes, Brownian bridges, empirical processes and partial sums of i.i.d. r.v.'s. **89a:60057**
— Strong approximations of kth records and kth record times by Wiener processes. **89b:60086**
Dishon, Menachem *see* **Bendler, John T.; et al., 89m:82051**
Dittrich, P. A stochastic model of a chemical reaction with diffusion. **89k:60156**
Duncan, T. E. Explicit solutions for an estimation problem in manifolds associated with Lie groups. **89j:58142**
— An estimation problem in compact Lie groups. **89e:60018**
Dynkin, E. B. Functionals associated with self-intersections of the planar Brownian motion. **89h:60123**
— Regularized self-intersection local times of planar Brownian motion. **89b:60181**
— Self-intersection gauge for random walks and for Brownian motion. **89f:60053**
Elworthy, K. D. Brownian motion and the ends of a manifold. **89i:58155**
— Brownian motion and harmonic forms. **89h:58180**
Emery, Michel (*with* Yukich, J. E.) A simple proof of the logarithmic Sobolev inequality on the circle. **89f:26020**
Feldman, Edgar A. *see* **Chavel, Isaac, 89h:58195** *and* **89i:58154**
Földes, Antónia *see* **Csáki, Endre, 89g:60234** *and* **89j:60108**
Gikhman, I. I. On the representation of functionals of a Wiener sheet by stochastic integrals. **89b:60133**
Goodman, Victor (*with* Kuelbs, J.) Rates of convergence for increments of Brownian motion. **89a:60080**
Grill, K. *see* **Csáki, Endre, 89d:60055**
Haiman, George Étude des extrêmes d'une suite stationnaire m-dépendante avec une application relative aux accroissements du processus de Wiener. (English summary) [Study of the extrema of an m-dependent stationary sequence with an application involving the increments of the Wiener process] **89a:60104**
Harrison, J. Michael (*with* Williams, Ruth J.) Brownian models of open queueing networks with homogeneous customer populations. **89b:60215**
Helmes, K. On Levy's area process. **89b:60109**
Hida, Takeyuki (*with* Saito, Kimiaki) White noise analysis and the Levy Laplacian. **89m:60092**
Hirsch, F. A. *see* **Bouleau, N., 89a:60140**
Hsu, Pei Branching Brownian motion and the Dirichlet problem of a nonlinear equation. **89d:60155**
Hu, Yao Zhong (*with* Meyer, P.-A.) Sur les intégrales multiples de Stratonovitch. [On the Stratonovich multiple integrals] **89k:60070**
Ichihara, Kanji Comparison theorems for Brownian motions on Riemannian manifolds and their applications. **89c:58142**
Iscoe, I. *see* **Dawson, D. A.; et al., 89a:60112**
Jurlewicz, T. Wiener processes with values in p-homogeneous Fréchet spaces. **89h:60007**
Kesten, Harry *see* **Bendler, John T.; et al., 89m:82051**
Kōzaki, Masanori (*with* Ogura, Yukio) On the independence of exit time and exit position from small geodesic balls for Brownian motions on Riemannian manifolds. **89g:58218**
Kuelbs, J. *see* **Goodman, Victor, 89a:60080**
Lalley, S. (*with* Sellke, Thomas) Traveling waves in inhomogeneous branching Brownian motions. I. **89g:60259**
Léandre, Rémi Quantitative and geometric applications of the Malliavin calculus. **89k:58295**
Le Gall, J.-F. Sur le temps local d'intersection du mouvement brownien plan et la méthode de renormalisation de Varadhan. [On the local time of intersection of Brownian motion in the plane and Varadhan's renormalization method] **89d:60137**
— Une approche élémentaire des théorèmes de décomposition de Williams. [An elementary approach to Williams' decomposition theorems] **89g:60219**
Lehmann, Axel (*with* Thiele, Burkhard; Tiedge, Jürgen) Transformierte des Wienerprozesses zur Modellierung von Verschleißprozessen. [Transforms of the Wiener process for the modelling of attrition processes] **89k:60116**
Le Jan, Y. *see* **Darling, R. W. R., 89j:60073**
Liao, Ming (*with* Pinsky, Mark) Stochastic parallel translation for Riemannian Brownian motion conditioned to hit a fixed point of a sphere. **89k:58296**
— Hitting distributions of small geodesic spheres. **89g:58219**
Lin, Zheng Yan *see* **Lu, Chuan Rong, 89e:60067**
Lu, Chuan Rong (*with* Lin, Zheng Yan) Strong approximations for partial sums of independent and dependent random variables. (Chinese. English summary) **89e:60067**
Maccone, Claudio Special relativity and the Karhunen-Loève expansion of Brownian motion. (Italian and Russian summaries) **89d:83005**
Malliavin, Paul *see* **Airault, H., 89f:60072**
March, P. Probabilistic interpretation of Hadamard's variational formulas. **89i:60150**
Marchetti, Federico *see* **Calzolari, Antonella; et al., 89h:65011**
Meyer, P.-A. *see* **Hu, Yao Zhong, 89k:60070**
Molchan, G. M. Multiparametric Brownian motion on symmetric spaces. **89a:60132**
Monrad, Ditlev (*with* Pitt, L. D.) Local nondeterminism and Hausdorff dimension. **89d:60077**
Namiki, Mikio Stochastic processes in physics. (Japanese. English summary) **89b:81054**
Nguyen Minh Duc Semimartingales and the standard Brownian motion. **89g:60158**
Obata, Nobuaki Analysis of the Lévy Laplacian. **89m:46080**
Ogura, Yukio *see* **Kōzaki, Masanori, 89g:58218**
Parthasarathy, Kalyanapuram Rangachari (*with* Sinha, K. B.) Stop times in Fock space stochastic calculus. **89h:81072**
— *see also* **Accardi, Luigi, 89e:81057**
Pauwels, E. J. (*with* Rogers, L. C. G.) Skew-product decompositions of Brownian motions. **89i:58157**
Pérez-Abreu, Víctor Mutiple Wiener integrals and nonlinear functionals of a nuclear space valued Wiener process. **89e:60110**
Perkins, Edwin A. *see* **Dawson, D. A.; et al., 89a:60112** *and* **Barlow, M. T., 89g:60241**
Pestien, Victor C. (*with* Sudderth, William D.) Continuous-time casino problems. **89f:93047**
Pinsky, Mark *see* **Liao, Ming, 89k:58296**
Pitt, L. D. *see* **Monrad, Ditlev, 89d:60077**
Pontier, Monique (*with* Szpirglas, J.) Uniqueness of the solutions of the filtering equation with observations on a Riemannian symmetric space. **89i:58158**
Privorotskiĭ, M. E. Estimates for the distribution of the maximum of a two-parameter Wiener field defined on some domain. (Russian) **89i:60109**
Reichl, L. E. Transition in the Floquet rates of a driven stochastic system. **89i:82028**
Révész, P. *see* **Deheuvels, Paul, 89a:60057**
Rogers, L. C. G. *see* **Pauwels, E. J., 89i:58157**
Rosen, Jay A renormalized local time for multiple intersections of planar Brownian motion. **89f:60091**
— *see also* **Chavel, Isaac; et al., 89i:58154**
Russo, Francesco *see* **Dalang, Robert C., 89h:60081**
Sadun, L. Continuum regularization of quantum field theory. V. Schwinger-Dyson renormalization. **89a:81082**
Saito, Kimiaki *see* **Hida, Takeyuki, 89m:60092**
Sellke, Thomas *see* **Lalley, S., 89g:60259**
Siegmund, David The reflection principle and hearing the shape of a drum. **89g:58210**
Sinha, K. B. *see* **Parthasarathy, Kalyanapuram Rangachari, 89h:81072**
Skorokhod, A. V. Continuous flows of σ-algebras of rank 1. (Russian) **89d:60089**
Song, Shiqui (*with* Yor, Marc) Inégalités pour les processus self-similaires arrêtés à un temps quelconque. [Inequalities for self-similar processes stopped at a random time] **89m:60125**
Stoica, Lucretiu A class of sets which are thin with respect to a point in the Martin boundary of the half-space. **89b:60180**
Stroock, Daniel W. Homogeneous chaos revisited. **89h:60103**
Sudderth, William D. *see* **Pestien, Victor C., 89f:93047**
Szpirglas, J. *see* **Pontier, Monique, 89i:58158**
Taylor, John Christopher Minimal functions, martingales, and Brownian motion on a noncompact symmetric space. **89e:60020**
— The Iwasawa decomposition and the limiting behaviour of Brownian motion on a symmetric space of noncompact type. **89f:58139**
Taylor, Thomas J. Applications of harmonic analysis on the infinite-dimensional torus to the theory of the Feynman integral. **89g:58036**
Thiele, Burkhard *see* **Lehmann, Axel; et al., 89k:60116**
Tiedge, Jürgen *see* **Lehmann, Axel; et al., 89k:60116**
Uemura, Hideaki On a short time expansion of the fundamental solution of heat equations by the method of Wiener functionals. **89c:58124**
Watanabe, Shinzo Generalized Wiener functionals and their applications. **89h:60094**
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Whitt, Ward *see* **Abate, Joseph, 89g:60275**
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Yang, Wei-Shih Renormalization of a self-avoiding Brownian motion in two dimensions. **89m:60121**
Yor, Marc Précisions sur l'existence et la continuité des temps locaux d'intersection du mouvement brownien dans $\mathbf{R}^2$. [Improved results on the existence and continuity of intersection local times for Brownian motion in $\mathbf{R}^2$] **89h:60126**
— *see also* **Song, Shiqui, 89m:60125**
Yukich, J. E. *see* **Emery, Michel, 89f:26020**

60J70 Applications of diffusion theory (population genetics, absorption problems, etc.)

Ferrari, Pablo Augusto ★ Passeios aleatórios e redes elétricas. (Portuguese) [Random walks and electrical networks] **89k:60121**

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Antonelli, P. L. A curved space forward Cauchy problem for chemical ecology on the Great Barrier Reef. **89k:92044**
Baccelli, F. (*with* Fayolle, G.) Analysis of models reducible to a class of diffusion processes in the positive quarter plane. **89b:60168**
Balding, David Diffusion-reaction in one dimension. **89i:60194**
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Donnelly, Peter (*with* Tavaré, Simon) The population genealogy of the infinitely-many neutral alleles model. **89g:92025**
Ethier, S. N. (*with* Kurtz, T. G.) The infinitely-many-alleles model with selection as a measure-valued diffusion. **89c:92037**
— (*with* Griffiths, R. C.) The infinitely-many-sites model as a measure-valued diffusion. **89a:60130**
Fayolle, G. *see* **Baccelli, F., 89b:60168**
Fleming, W. H. (*with* Sethi, Suresh P.; Soner, H. M.) An optimal stochastic production planning problem with randomly fluctuating demand. **89c:90057**
Gräff, Pitter Some asymptotic results in turbulent diffusion. **89j:76058**
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Ogura, Yukio (*with* Shimakura, Norio) Stationary solutions and their stability for Kimura's diffusion model with intergroup selection. II. **89b:35063**

Pignedoli, Antonio On the differential equations of diffusion of particles in the stochastic model. (Italian. English summary) **89d:82053**

Reiman, Martin I. A multiclass feedback queue in heavy traffic. **89d:60188**

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Sethi, Suresh P. *see* **Fleming, W. H.; et al., 89c:90057**

Shimakura, Norio *see* **Ogura, Yukio, 89b:35063**

Soner, H. M. *see* **Fleming, W. H.; et al., 89c:90057**

Tavaré, Simon *see* **Donnelly, Peter, 89g:92025**

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Yeung, D. W. K. Exact solutions for steady-state probability distribution of a simple stochastic Lotka-Volterra food chain. **89c:92073**

60J75 Jump processes

Chebotarëv, A. M. Sufficient conditions for the regularity of jump Markov processes. **89d:60149**

Crank, Keith N. (*with* Puri, Prem) A method of approximating Markov jump processes. **89k:60122**

Dagsvik, John K. Markov chains generated by maximizing components of multidimensional extremal processes. **89f:60097**

Kaj, Ingemar Time reversal and stationarity of infinite-dimensional Markov birth-and-death processes. **89e:60161**

Léandre, Rémi Calcul des variations sur un brownien subordonné. [Calculus of variations on a subordinate Brownian motion] **89m:60201**

Maruyama, Kishiko (*with* Shibata, Fumiaki) From two-state jump to Gaussian stochastic processes. **89e:60162**

Puri, Prem *see* **Crank, Keith N., 89k:60122**

Shaked, M. (*with* Shanthikumar, J. George) On the first-passage times of pure jump processes. **89j:60118**

Shanthikumar, J. George *see* **Shaked, M., 89j:60118**

Shibata, Fumiaki *see* **Maruyama, Kishiko, 89e:60162**

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Athreya, K. B. (*with* Kliemann, W.; Koch, Giorgio) On sequential construction of solutions of stochastic differential equations with jump terms. **89g:60197**

Bass, R. F. Uniqueness in law for pure jump Markov processes. **89h:60118**

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van Dijk, Nico M. On the finite horizon Bellman equation for controlled Markov jump models with unbounded characteristics: existence and approximation. **89j:93139**

Huang, Li Ping Weak convergence of a class of jump processes. (Chinese. English summary) **89b:60087**

Jetschke, G. Systems with hysteresis in an extremely slowly fluctuating environment. (German summary) **89c:34060**

Kijima, Masaaki On passage and conditional passage times for Markov chains in continuous time. **89g:60230**

Kliemann, W. *see* **Athreya, K. B.; et al., 89g:60197**

Koch, Giorgio *see* **Athreya, K. B.; et al., 89g:60197**

Kotelenez, Peter High density limit theorems for nonlinear chemical reactions with diffusion. **89g:60122**

Léandre, Rémi Densité en temps petit d'un processus de sauts. [Density of a jump process for small times] **89g:60179**

— Régularité de processus de sauts dégénérés. II. (English summary) [Regularity for degenerate pure jump processes. II] **89j:60103**

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Stadje, W. Asymptotic normality in a two-dimensional random walk model for cell motility. **89h:92034**

Zakusilo, O. K. Characteristic times of Markov drift processes. **89g:60226**

60J80 Branching processes (Galton-Watson, birth-and-death, etc.)

Abad Montes, Francisco (*with* González Carmona, Andrés) Moments of a controlled Markov branching process. (Spanish. English summary) **89g:60255**

Aliev, S. A. (*with* Shurenkov, V. M.) Asymptotics of Galton-Watson processes that are close to critical processes. (Russian) **89e:60163**

Atamatov, A. S. *see* **Kaverin, S. V., 89e:60167**

Athreya, K. B. On the maximum sequence in a critical branching process. **89f:60098**

Badalbaev, I. S. (*with* Mashrabbaev, A.) Life spans of a Bellman-Harris branching process with immigration. (Russian) **89d:60150**

— (*with* Mashrabbaev, A.) Asymptotic behavior of the probability of extinction of branching processes with immigration. (Russian) **89c:60097**

— (*with* Ganikhodzhaev, A. N.) Some generalizations of limit theorems for branching processes with decreasing immigration. (Russian) **89k:60123**

— (*with* Salakhitdinov, R. M.) Estimates for the rate of convergence in limit theorems for branching processes with decreasing immigration. (Russian) **89g:60256**

Boĭko, R. V. Branching processes with a stabilizing branching regime. (Russian) **89e:60164**

Borovkov, K. A. A method for the proof of limit theorems for branching processes. **89e:60165**

Broberg, Per Critical branching populations with reproductive sibling correlations. **89m:60202**

Dekking, F. M. On the survival probability of a branching process in a finite state i.i.d. environment. **89b:60197**

— (*with* Grimmett, G. R.) Superbranching processes and projections of random Cantor sets. **89f:60099**

van Doorn, Erik A. The indeterminate rate problem for birth-death processes. **89c:60098**

Dynkin, E. B. Superprocesses and their linear additive functionals. **89k:60124**

Erofeev, M. I. Some limit theorems for branching processes with energy. (Russian) **89e:60166**

Filin, A. V. *see* **Volkovinskiĭ, M. I., 89a:60200**

Formanov, Sh. K. (*with* Kaverin, S. V.) Markov branching processes with emigration. II. (Russian) **89a:60195**

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González Carmona, Andrés *see* **Abad Montes, Francisco, 89g:60255**

Gorostiza, Luis G. Limit theorems for supercritical branching random fields with immigration. **89c:60099**

Grey, D. R. Supercritical branching processes with density independent catastrophes. **89g:60257**

— A note on explosiveness of Markov branching processes. **89m:60203**

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Hu, Di He A model of a doubly stochastic controlled branching process. (Chinese) **89i:60163**

Ibragimov, R. (*with* Mashrabbaev, A.) A lemma for branching processes with immigration. (Russian) (*see* **89g:60002**)

Ismail, Mourad E. H. (*with* Letessier, J.; Valent, G.) Linear birth and death models and associated Laguerre and Meixner polynomials. **89m:60204**

Kaverin, S. V. (*with* Atamatov, A. S.) Branching random processes with unbounded migration of particles. (Russian) **89e:60167**

— *see also* **Formanov, Sh. K., 89a:60195**

Kingman, J. F. C. Random dissections and branching processes. **89g:60258**

Kobayashi, Takayuki Branching processes in the presence of random immigration and representations for time series. **89j:60119**

Lalley, S. (*with* Sellke, Thomas) Traveling waves in inhomogeneous branching Brownian motions. I. **89g:60259**

Langer, Ines *see* **Prehn, Uwe, 89i:60165**

Latouche, Guy A note on two matrices occurring in the solution of quasi-birth-and-death processes. **89d:60151**

Letessier, J. (*with* Valent, G.) Some exact solutions of the Kolmogorov boundary value problem. **89i:60164**

— *see also* **Ismail, Mourad E. H.; et al., 89m:60204**

Mashrabbaev, A. *see* **Badalbaev, I. S., 89c:60097; 89d:60150** *and* **Ibragimov, R.,** (**89g:60002**)

Masuda, Yasushi First passage times of birth-death processes and simple random walks. **89e:60168**

Mitov, Kosto V. A limit theorem for a Galton-Watson process with immigration at zero and with several types of particles. (Russian. English summary) **89g:60260**

Neveu, J. Processus ponctuels stationnaires asymptotiquement gaussiens et comportement asymptotique de processus de branchement spatiaux sur-critiques. [Asymptotically Gaussian stationary point processes and the asymptotic behavior of supercritical branching processes in space] **89h:60143**

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— An infinite alleles version of the Markov branching process. **89m:60205**

Prehn, Uwe (*with* Langer, Ines) The expected source time of a subcritical multitype Galton-Watson process. **89i:60165**

Rahman, Sirajur (*with* Shamoon, Pirlanty J.) On fractional linear generating functions and bounds on the extinction-time distribution of branching processes. **89b:60198**

Rakhimov, I. U. Two limit theorems for age-dependent multitype branching processes with immigration. (Russian) **89a:60197**

— New limit theorems for Galton-Watson processes with infinite variance. (Russian) **89b:60199**

— (*with* Salakhitdinov, R. M.) Some generalizations of limit theorems for Galton-Watson processes with infinite variance and decreasing immigration. (Russian) **89e:60169**

— Asymptotics of the probability of nonextinction of decomposable branching processes with decreasing immigration. (Russian) **89i:60166**

— A local theorem for Galton-Watson processes with immigration, in the case of a uniform limit distribution. (Russian) **89i:60167**

— Local limit theorems for critical Galton-Watson processes with decreasing immigration. **89g:60261**

Rouault, Alain Espérances et majorations pour un processus de branchement spatial markovien. (English summary) [Expectations and upper bounds for a spatial Markov branching process] **89d:60152**

Sagitov, S. M. Multidimensional limit theorems for a branching process with one type of particle. (Russian) **89a:60198**

— A criterion for the existence of a limit for the mean number of particles in a critical branching process. (Russian. Kazakh summary) **89i:60168**

— *see also* **Vatutin, V. A., 89f:60101** *and* **89k:60125**

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Sato, Ken-iti On zeros of a system of polynomials and application to sojourn time distributions of birth-and-death processes. **89h:60144**

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Serfozo, Richard F. Extreme values of birth and death processes and queues. **89f:60100**

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Shoukry, E. M. A general pure death process model and the distribution of the time required to remove a fixed number of elements. **89i:60169**

Shurenkov, V. M. *see* **Aliev, S. A., 89e:60163** *and* **Zonenashvili, L. K., 89i:60171**

Slavtchova, Marusia N. (*with* Yanev, Nikolaĭ M.) Supercritical branching processes with random migration stopped at zero. (Bulgarian summary) **89d:60153**

Sugitani, Sadao Limit processes for the branching processes with the Perron-Frobenius root. I. **89d:60154**

Topchiĭ, V. A. Properties of the probability of nonextinction of general critical branching processes under weak restrictions. (Russian) **89g:60262**

— Moderate deviations for the total number of particles in critical branching processes. **89i:60170**
Valent, G. *see* **Letessier, J., 89i:60164** *and* **Ismail, Mourad E. H.; et al., 89m:60204**
Vatutin, V. A. (*with* Sagitov, S. M.) Critical decomposable Bellman-Harris processes with two types of particles, which are "far from" Markov processes. **89f:60101**
— (*with* Sagitov, S. M.) A decomposable critical Bellman-Harris branching process with two types of particles. I. (Russian) **89k:60125**
Vinokurov, G. V. On a critical Galton-Watson branching process with emigration. (Russian) **89a:60199**
Volkovinskiĭ, M. I. (*with* Filin, A. V.) Terminating birth-and-death processes. (Russian. English summary) **89a:60200**
Weiner, Howard J. Joint moments of the maximum in a critical branching process. **89b:60200**
Willekens, Eric On higher moments of the population size in a subcritical branching process. **89e:60170**
Yanev, Nikolaĭ M. *see* **Slavtchova, Marusia N., 89d:60153**
Yurachkovskiĭ, A. P. Convergence of inhomogeneous branching processes that are asymptotically critical in a scheme of arrays to processes of diffusion type. **89e:60171**
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Biswas, Suddhendu (*with* Ebraheem, Nather Abas) On an application of the diffusion approximation of the generalized birth and death process for stochastic population projection. **89g:60228**
Cohn, Harry Limit behaviour for stochastic monotonicity and applications. **89c:60091**
Consul, P. C. (*with* Shoukri, M. M.) Some chance mechanisms related to a generalized Poisson probability model. **89g:92037**
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Falin, G. I. Comparability of migration processes. **89e:60139**
Fleischmann, Klaus Critical behavior of some measure-valued processes. **89h:60078**
Gorostiza, Luis G. The demographic variation process of branching random fields. **89f:60054**
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Letessier, J. (*with* Valent, G.) Some integral relations involving hypergeometric functions. **89b:33005**
Molina Fernández, M. (*with* Hermoso Carazo, A.) Sequential inference in diffusion branching processes. (Spanish. English summary) **89i:62134**
Mukhitdinov, A. Limit theorems for some statistics in subcritical multitype branching processes. (Russian) **89c:62142**
Pakes, Anthony G. Limit theorems for the population size of a birth and death process allowing catastrophes. **89d:92075**
Perkins, Edwin A. A space-time property of a class of measure-valued branching diffusions. **89c:60064**
Pruscha, Helmut Sequential estimation functions in stochastic population processes. **89b:62176**
Rakhimov, I. U. A limit theorem for random sums of dependent indicators and its applications in the theory of branching processes. (Russian) **89e:60055**
Safaryan, R. G. Branching diffusion processes and systems of differential reaction-diffusion equations. **89i:35082**
Shoukri, M. M. *see* **Consul, P. C., 89g:92037**
Tavaré, Simon The birth process with immigration, and the genealogical structure of large populations. **89e:92042**
Valent, G. *see* **Letessier, J., 89b:33005**

60J85 Applications of branching processes [see also 60K30, 92A10, 92A15]

Biyajima, Minoru *see* **Suzuki, Naomichi, 89g:60263**
Hsu, Pei Branching Brownian motion and the Dirichlet problem of a nonlinear equation. **89d:60155**
Suzuki, Naomichi (*with* Biyajima, Minoru) Multiplicity distributions in a two-component branching process. **89g:60263**

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Boĭko, R. V. (*with* Kotov, V. N.) Stochastic models for microbiological processes. (Russian) **89g:92034**
Chistyakov, V. P. *see* **Dorogov, V. I., 89f:81050**
van Doorn, Erik A. (*with* Jagers, A. A.; de Wit, J. S. J.) A fluid reservoir regulated by a birth-death process. **89j:90080**
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Grishechkin, S. A. Investigation of queueing systems with random choice discipline by branching process methods. **89j:60127**
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Jagers, A. A. *see* **van Doorn, Erik A.; et al., 89j:90080**
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Matsuzaki, Hisao *see* **Tsukamoto, Tatsuo; et al., 89d:82164**
Mode, Charles J. (*with* Root, Terry) Projecting age-structured populations in a random environment. **89f:92048**
Moody, Michael E. A branching process model for the evolution of transposable elements. **89g:92028**
Pakes, Anthony G. Limit theorems for the population size of a birth and death process allowing catastrophes. **89d:92075**
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Tan, W. Y. Some mixed models of carcinogenesis. **89j:92048**
Tsukamoto, Tatsuo (*with* Honda, Tsuyoshi; Matsuzaki, Hisao; Ishii, Chikai) Linear surprisal and simple birth, death and immigration process. **89d:82164**
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de Wit, J. S. J. *see* **van Doorn, Erik A.; et al., 89j:90080**
Yor, Marc Renormalisation et convergence en loi pour les temps locaux d'intersection du mouvement brownien dans $\mathbf{R}^3$. [Renormalization and convergence in law for local times of intersection of Brownian motion in $\mathbf{R}^3$] **89b:60196**

60J99 None of the above, but in this section

Cao, Hong Xing *see* **Yin, Xiao Rong, 89m:60206**
Rosenblatt-Roth, Millu Sur la meilleure approximation des mesures de probabilité à l'aide des réseaux aléatoires de Markov. (English summary) [On the best approximation of probability measures with the help of Markov random meshes] **89a:60201**
Yin, Xiao Rong (*with* Cao, Hong Xing) Multidimensional fuzzy Markov process and its application to the study of climate impact on economics. (Chinese summary) **89m:60206**

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Albeverio, S. Some personal remarks on nonstandard analysis in probability theory and mathematical physics. **89h:03117**
Arnaud, Michel *see* **Thirriot, Claude, 89j:86011**
Chaĭ, Z. S. *see* **Startsev, A. N., 89m:92046**
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Del Grosso, G. (*with* Marra, R.) Girsanov and Feynman-Kac formulas in the discrete stochastic mechanics. **89b:81051**
Dobrushin, R. L. The hydrodynamic limit. Some caricatures. (Bulgarian) **89g:82007**
Faigle, Ulrich (*with* Schrader, Rainer) On the convergence of stationary distributions in simulated annealing algorithms. **89b:90173**
Jamiołkowski, Andrzej Open quantum Markovian systems and their reconstructibility. **89d:82031**
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Nagasawa, Masao (*with* Tanaka, Hiroshi[1]) On the propagation of chaos for diffusion processes with drift coefficient not of average form. **89a:60184**
Olla, Stefano Large deviations for almost Markovian processes. **89c:60032**
Schrader, Rainer *see* **Faigle, Ulrich, 89b:90173**
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Startsev, A. N. (*with* Chaĭ, Z. S.) Limit theorems for the size of an epidemic in a generalized probability model. (Russian) **89m:92046**
Takeda, Masayoshi On the uniqueness of the Markovian selfadjoint extension. **89e:81036**
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Thirriot, Claude (*with* Arnaud, Michel) Expressions récurrentes des moments successifs des fonctions de répartition des longueurs de séquences sèches ou pluvieuses régies par un processus de Markov d'ordre supérieur. (English summary) [Recurrence expressions for successive moments of distribution functions of dry or wet runs following an upper-order Markov chain] **89j:86011**

60Kxx Special processes

60K05 Renewal theory

Alsmeyer, Gerold Second-order approximations for certain stopped sums in extended renewal theory. **89d:60156**
Anderson, Kevin K. (*with* Athreya, K. B.) A strong renewal theorem for generalized renewal functions in the infinite mean case. **89d:60157**
Anichkin, S. A. Some dimension classes in the Blackwell theorem for distributions that have an atomic or a singular component. (Russian) **89b:60201**
— Rate of convergence estimates in Blackwell's theorem. **89i:60172**
Athreya, K. B. *see* **Anderson, Kevin K., 89d:60157**
Brandt, Andreas On stationary queue length distributions for $G/M/s/r$ queues. **89d:60158**
Galambos, Janos (*with* Kátai, I.) Some remarks on random walks in multidimensional time. **89h:60145**
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Keener, Robert Asymptotic expansions in nonlinear renewal theory. **89g:60265**
Kulkarni, V. G. Some limit theorems for cumulative processes with applications to sojourn times. **89e:60172**
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Novikov, M. M. Superposition of N Markov renewal processes. (Russian) **89h:60147**
Peruničić, P. M. (*with* Glišić, Z.) Estimation of the rarefying function. (Serbo-Croatian summary) **89e:60173**
— On a rarefied renewal process. (Serbo-Croatian summary) **89g:60266**
— On a functional rarefaction procedure. **89i:60174**
Schäbe, Hendrik Zur Berechnung der Erneuerungsfunktion unter Zuhilfenahme von Edgeworth-Reihen. [On computing the renewal function with the aid of Edgeworth series] **89d:60159**
Schulte-Geers, E. (*with* Stadje, W.) Some results on the joint distribution of the renewal epochs prior to a given time instant. **89m:60207**
Stadje, W. *see* **Schulte-Geers, E., 89m:60207**

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Dai, Yong Long On Kingman's inequalities. (Chinese. English summary) **89k:60097**
Frees, Edward W. Correction: "Nonparametric renewal function estimation" [Ann. Statist. **14** (1986), no. 4, 1366–1378; MR 88b:62078]. **89i:62059**
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60K10 Applications (reliability, demand theory, etc.)

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60K15 Markov renewal processes, semi-Markov processes

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Eleĭko, Ya. I. Limit distributions of time averages for processes with Markovian interference of chance. (Russian) **89a:60203**
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60K20 Applications of Markov renewal processes (reliability, queueing networks, etc.) [see also 90B22, 90B25]

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60K25 Queueing theory [see also 68M20, 90B22]

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— Blocking of finite source inputs which require simultaneous servers with general think and holding times. **89m:60222**
— (*with* van der Wal, Jan) Simple bounds and monotonicity results for finite multi-server exponential tandem queues. **89m:60223**
Doisy, M. Files d'attente à rejet différé. (English summary) [Queues with postponements] **89d:60174**
van Doorn, Erik A. (*with* Regterschot, G. J. K.) Conditional PASTA. **89j:60125**
van Doremalen, Jan (*with* Wessels, Jaap) A recursive aggregation-disaggregation method to approximate large-scale closed queueing networks with multiple job types. **89k:60131**
Doshi, Bharat Queueing systems with vacations—a survey. **89b:60212**
— (*with* Kaufman, J. S.) Sojourn time in an $M/G/1$ queue with Bernoulli feedback. **89k:60132**
Drabkin, L. *see* **Khusanov, M., 89g:60287**
Dshalalow, Jewgeni On a multichannel transportation loss system with controlled input and controlled service. **89m:60224a**
— Corrections to: "On a multichannel transportation loss system with controlled input and controlled service" [J. Appl. Math. Simulation **1** (1987), no. 1, 41–55]. **89m:60224b**
— On a duality principle in processes of servicing machines with double control. **89m:60225**
Dukhovnyĭ, A. M. Combined feedback in systems with batch arrival and service. (Russian) **89f:60110**
Dvurečenskij, Anatolij On a discrete modified $M/GI/c/\infty$ queue. (Russian and Slovak summaries) **89c:60104**
— (*with* Ososkov, G. A.) On a generalized discrete queueing system with infinitely many servers. **89b:60213**
— Joint distribution of the busy and idle periods of a discrete modified $GI/GI/c/\infty$ queue. (Russian and Czech summaries) **89d:60175**
D'yakonova, E. E. (*with* Belyaev, K. P.) Estimates of the speed of convergence in the limit theorems for batch-processing systems with heavy traffic. **89a:60215**
Elias, S. S. *see* **Mokaddis, G. S.; et al., 89e:60192**
Fakinos, D. Duality relations for certain single server queues. **89m:60226**
Falin, G. I. Multichannel queueing systems with repeated calls under high intensity of repetition. (German and Russian summaries) **89e:60186**
— The convergence of queueing processes in structurally complex systems with losses to stationary processes. (Russian) **89h:60155**
— On a multiclass batch arrival retrial queue. **89g:60279**
— Ergodicity, stability and insensitivity for a class of networks with channel switching. **89j:60126**
— Quasi-input stream for an $M/G/1/\infty$ system. **89k:60133**
Fayolle, G. (*with* Brun, M. A.) On a system with impatience and repeated calls. **89i:60179**
Federgruen, Awi (*with* Green, Linda) Queueing systems with service interruptions. **89a:60216**
— (*with* Green, Linda) Queueing systems with service interruptions. II. **89h:60156**
Finkel, David *see* **Gelenbe, Erol, 89a:60217**
Foley, Robert D. (*with* Kiessler, Peter C.) Positive correlations in a three-node Jackson queueing network. **89m:60227**
— *see also* **Kiessler, Peter C.; et al., 89d:60177**
Fukagawa, Yukinori (*with* Yanaru, Torao; Yoshida, Sho) A queueing system with server's walking-time and serial service. (Not in MR)
Gail, H. R. (*with* Hantler, S. L.; Taylor, B. Alan) Analysis of a nonpreemptive priority multiserver queue. **89i:60180**
Ge, Yu Bo Generalized state-dependent Erlangian queues: the V-sojourn times before the relative arrival times. (Chinese) **89k:60134**
Gelenbe, Erol (*with* Finkel, David) Stationary deterministic flows. II. The single-server queue. **89a:60217**
Ghosal, A. (*with* Madan, Sudhir) Identification of waiting time distribution of $M/G/1$, $M^x/G/1$, $GI^r/M/1$ queueing systems. **89d:60176**
Gillert, H. *see* **Amosova, N. N.; et al., 89a:60207**
Giorno, V. (*with* Nobile, A. G.; Ricciardi, Luigi M.) On some time-nonhomogeneous diffusion approximations to queueing systems. **89a:60218**
Glynn, Peter W. (*with* Iglehart, Donald L.) Simulation methods for queues: an overview. **89k:60135**
Gray, William J. (*with* Scott, Meckinley) An $M/G/1$ type vacation queuing model with exceptional service for certain customers. **89m:60228**
Green, Linda *see* **Federgruen, Awi, 89a:60216; 89h:60156** *and* **Svoronos, Antony, 89h:60162**
Grigelionis, B. (*with* Mikulevičius, R.) Functional limit theorems for queueing systems under heavy traffic. I. (Russian) **89e:60187**
— (*with* Mikulevičius, R.) Functional limit theorems for queueing systems under heavy traffic. II. (Russian. English and Lithuanian summaries) **89e:60188**
Grigoryan, G. S. *see* **Danielyan, È. A., 89h:60153**
Grishechkin, S. A. Investigation of queueing systems with random choice discipline by branching process methods. **89j:60127**
Groenendijk, Wim P. *see* **Boxma, O. J., 89j:60123**
Gulati, H. L. *see* **Heydari, Ahmad Pour Darvish, 89b:60216**
Gupta, P. K. *see* **Mittal, S. P., 89g:60291** *and* **Sharma, B. B.,** (Not in MR)
Hanschke, Thomas Explicit formulas for the characteristics of the $M/M/2/2$ queue with repeated attempts. **89a:60219**
Hantler, S. L. *see* **Gail, H. R.; et al., 89i:60180**
Harel, Arie (*with* Zipkin, Paul H.) Strong convexity results for queueing systems. **89a:60220**
Harris, Carl M. (*with* Prabhu, N. U.) Stochastic comparisons for single-server queues. **89b:60214**
— (*with* Marchal, William G.) State dependence in $M/G/1$ server-vacation models. **89g:60280**
Harrison, J. Michael (*with* Williams, Ruth J.) Brownian models of open queueing networks with homogeneous customer populations. **89b:60215**
— Brownian models of queueing networks with heterogeneous customer populations. **89c:60105**
Haviv, Moshe (*with* Ritov, Yakov) The variance of the waiting time in a queueing system with jockeying. **89e:60189**
— (*with* Ritov, Yakov) Erratum: "The variance of the waiting time in a queueing system with jockeying" [Comm. Statist. Stochastic Models **4** (1988), no. 1, 161–182; MR 89e:60189]. **89m:60229**
Heydari, Ahmad Pour Darvish On bulk arrivals in biseries channels linked in series with a common channel. **89e:60190**
— (*with* Gulati, H. L.) On multi-input bi-tandem queue modelling. **89b:60216**
Heyde, C. C. Asymptotic efficiency results for the method of moments with application to estimation for queueing processes. **89i:60181**
Hooghiemstra, Gerard A path construction for the virtual waiting time of an $M/G/1$ queue. **89a:60221**
Hordijk, Arie Insensitivity, sensitivity and partial insensitivity for some queueing models. **89k:60136**
— (*with* Ridder, Ad) Insensitive bounds for the stationary distribution of nonreversible Markov chains. **89m:60230**
Hsu, Lie Fern (*with* Tapiero, Charles S.) Maintenance of an unreliable $M/G/1$ queue-like job shop. **89b:60217**
Hussain, Tahir (*with* Lone, A. G.; Ikram, Mohd.) On multi-queue with bulk arrivals and service parameters depending upon queue numbers. **89m:60231**
— Queues in series with arrivals and departures in bulks. **89k:60137**
Iasnogorodski, R. *see* **Blanc, J. P. C.; et al., 89e:60184**
Iglehart, Donald L. *see* **Glynn, Peter W., 89k:60135**
Ikeda, Zyūkiti (*with* Nishida, Toshio) Stability of $M/G/1$ queue with balking. **89g:60281**
— (*with* Nishida, Toshio) $M/G/1$ queue with balking. **89m:60232**
Ikram, Mohd. *see* **Hussain, Tahir; et al., 89m:60231**
Iliadis, Ilias (*with* Lien, Luke Y.-C.) Resequencing delay for a queueing system with two heterogeneous servers under a threshold-type scheduling. **89b:60218**
Ismaĭlova, N. A. *see* **Tairov, M. F.,** (**89b:41001**)
Ivanov, N. N. A queueing system with parallel batch servicing. (Russian. English summary) **89b:60219**
Ivanovskiĭ, V. B. Estimation of the service characteristics of a single-server discrete system from empirical data. (Russian. English summary) **89b:60220**
Ivnitskiĭ, V. A. Grouping of the customers of a recurrent stream. (Russian. English summary) **89a:60222**
Jacob, M. J. (*with* Madhusoodanan, T. P.) Transient solution for a finite capacity $M/G^{a,b}/1$ queueing system with vacations to the server. **89k:60138**
— (*with* Madhusoodanan, T. P.) Transient solution of an $M/G/1$ queueing system with group arrivals and vacations to the server. **89m:60233**
Jagerman, D. Approximations for waiting time in $GI/G/1$ systems. **89c:60106**
Ji, Chuanshu Sequential scheduling of priority queues and arm-acquiring bandits. **89k:60139**
Jin, Xing (*with* Yu, Ke Ming) On the convergence rates for the virtual waiting time of a $GI/G/1$ system. (Chinese. English summary) **89g:60282**
— On Berry-Esseen rate for queue length of the $GI/G/K$ system in heavy traffic. **89i:60182**
Johansen, Helle *see* **Asmussen, Søren, 89j:60122**
Johri, Pravin K. (*with* Katehakis, Michael N.) Scheduling service in tandem queues attended by a single server. **89g:60283**
Kao, Edward P. C. (*with* Chang, Sheng-Lin) Modeling time-dependent arrivals to service systems: a case in using a piecewise-polynomial rate function in a nonhomogeneous Poisson process. (Not in MR)
Karshiev, A. Sh. *see* **Brekhov, O. M., 89f:60107**
Kashyap, B. R. K. *see* **Liu, Liming; et al., 89d:60183**
Katayama, Tsuyoshi A cyclic service tandem queueing model with parallel queues in the first stage. **89m:60234**
— Mean sojourn times in a multi-stage tandem queue served by a single server. (Japanese summary) **89g:60284**
Katehakis, Michael N. *see* **Johri, Pravin K., 89g:60283**
Kaufman, J. S. *see* **Doshi, Bharat, 89k:60132**
Keilson, J. (*with* Servi, L. D.) Dynamics of the $M/G/1$ vacation model. **89g:60285**
— (*with* Ramaswamy, Ravi) The backlog and depletion-time process for $M/G/1$ vacation models with exhaustive service discipline. **89f:60111**
Kel'bert, M. Ya. (*with* Kontsevich, M. L.; Rybko, A. N.) Jackson networks on countable graphs. **89m:60235**

Kella, Offer (*with* Yechiali, Uri) Priorities in $M/G/1$ queue with server vacations. **89b:60221**

Kelly, F. P. On a class of approximations for closed queueing networks. **89m:60236**

Khomichkov, I. I. Calculation of the characteristics of a queueing system with repeated customers and with paired connections. **89g:60286**

— A single-server system with repeated calls and second-order Cox arrival stream. (Russian) **89c:60107**

— A queueing system with an unreliable instrument in the presence of repeated calls. (Russian) (Not in MR)

Khusanov, M. (*with* Drabkin, L.) The relation between two potentials in the queueing system $M|G|1|\infty$. (Russian) **89g:60287**

(Kiefer, Jack Carl) *see* **Prabhu, N. U., 89a:60228**

Kiessler, Peter C. On the equivalence of input and output processes in networks of infinite server queues. **89g:60288**

— (*with* Melamed, B.; Yadin, M.; Foley, Robert D.) Analysis of a three-node queueing network. **89d:60177**

— *see also* **Foley, Robert D., 89m:60227**

Kijima, Masaaki Distribution properties of discrete characteristics in $M/G/1$ and $GI/M/1$ queues. (Japanese summary) **89i:60183**

Knessl, C. (*with* Matkowsky, B. J.; Schuss, Z.; Tier, C.) Busy period distribution in state-dependent queues. **89d:60178**

Kogan, Ya. A. (*with* Pukhal′skiĭ, A. A.) Tandem queue with finite intermediate waiting room and blocking in heavy traffic. (Russian summary) **89d:60179**

Kolev, Nikolaĭ V. An optimization problem with an unreliable server with implicit breakdowns. (Bulgarian. English summary) **89g:60289**

König, Dieter (*with* Miyazawa, Masakiyo) Relationships and decomposition in the delayed Bernoulli feedback queueing system. **89d:60180**

Kontsevich, M. L. *see* **Kel′bert, M. Ya.; et al., 89m:60235**

Kostogryzov, A. I. A class of priority disciplines with a combination of service principles in order of priority and packet processing of calls. Analysis of their properties and of the probabilities of application in automatic control systems. (Russian) (*see* **89b:90004**)

Kotrutsa, V. P. On an application of the coupling method. (Russian) **89f:60112**

Krämer, Manfred Computational analysis of a finite capacity queueing system with vacations and nonexhaustive service. **89b:60222**

Krichagina, E. V. (*with* Liptser, R. Sh.; Pukhal′skiĭ, A. A.) Diffusion approximation for a system with an arrival stream that depends on the queue and with arbitrary service. **89f:60113**

Küchler, U. *see* **Amosova, N. N.; et al., 89a:60207**

Kulkarni, V. G. (*with* Nicola, V. F.; Trivedi, K. S.) The completion time of a job on multimode systems. **89a:60223**

Kurbanov, Kh. K. A duality relation in queueing systems. (Russian) **89m:60237**

Kuznetsov, N. Yu. An analytic-statistical method for constructing quantitative estimates for the continuity of the characteristics of queueing systems and stand-by systems. (Russian) **89j:60128**

Lakatos, László On systems with bulk arrival and group service. I. **89m:60238**

Latouche, Guy Perturbation analysis of a phase-type queue with weakly correlated arrivals. **89i:60184**

Le Boudec, Jean-Yves Steady-state probabilities of the $PH/PH/1$ queue. **89d:60181**

Le Gall, Pierre Some comments on the work of J. W. Cohen and new results in the theory of queueing networks. **89m:60239**

Li, Tze Fen The cycle time distribution of exponential cyclic queues with multiple servers. **89a:60224**

Li, Wen Qi On the proof of L. Takács' lemma for the $M/G/1$ stochastic queueing system. (Chinese. English summary) **89c:60108**

Lien, Luke Y.-C. *see* **Iliadis, Ilias, 89b:60218**

Liese, Friedrich *see* **Danielyan, È. A., 89d:60173**

Liptser, R. Sh. *see* **Krichagina, E. V.; et al., 89f:60113**

Liu, Ke Moment estimates of parameters in $E_k/E_l/c$ queueing systems. (Chinese) **89d:60182**

Liu, Liming (*with* Kashyap, B. R. K.; Templeton, J. G. C.) The service system $M/M^R/\infty$ with impatient customers. **89d:60183**

Logunov, M. G. (*with* Signaevskiĭ, V. A.) A system with two queues and alternating service. (Russian. English summary) **89b:60223**

Lone, A. G. *see* **Hussain, Tahir; et al., 89m:60231**

Loris-Teghem, Jacqueline Vacation policies in an $M/G/1$ type queueing system with finite capacity. **89j:60129**

Louchard, G. Large finite population queueing systems. I. The infinite server model. **89i:60185**

Lucantoni, D. M. *see* **Ramaswami, V., 89g:60294**

Lukashuk, L. I. Diffusion approximation of a network of Markov service systems under subcritical traffic. (Russian. English summary) **89g:60290**

Ma, Zhenkui *see* **Patterson, Richard L.**, (Not in MR)

Machihara, Fumiaki $\sum GI^{[X_i]}/M/S/K$ queues with mixed batch renewal inputs. **89i:60186**

— First passage times of $PH/PH/1/K$ and $PH/PH/1$ queues. (Japanese summary) **89b:60224**

— On the overflow processes from the $PH_1+PH_2/M/S/K$ queue with two independent PH-renewal inputs. **89f:60114**

Madan, Sudhir *see* **Ghosal, A., 89d:60176**

Madhusoodanan, T. P. *see* **Jacob, M. J., 89k:60138** *and* **89m:60233**

Madill, B. R. *see* **Chaudhry, M. L.; et al., 89g:60278**

Makarichev, A. V. An optimal servicing discipline in a multiphase system. (Russian. English summary) **89m:60240**

Makowski, Armand M. *see* **Baccelli, F., 89i:60178**

Maksimov, Yu. D. *see* **Amosova, N. N.; et al., 89a:60207**

Malinkovskiĭ, Yu. V. Multiplicativity of a stationary distribution of states for a class of queueing networks. **89i:60187**

Marchal, William G. *see* **Harris, Carl M., 89g:60280**

Matkowsky, B. J. *see* **Knessl, C.; et al., 89d:60178**

McNickle, D. C. Comment on: "The asymptotic behaviour of the service process for a critically loaded queueing system with a single server" [Tamkang J. Management Sci. 7 (1986), no. 2, 49–54; MR 87k:60233] by G. S. Mokaddis. **89e:60191**

Medhi, J. *see* **Chaudhry, M. L.; et al., 89a:60212**

Melamed, B. *see* **Kiessler, Peter C.; et al., 89d:60177**

Metwally, S. A. *see* **Mokaddis, G. S.; et al., 89e:60192**

Migalko, N. A. *see* **Brodi, S. M., 89j:60124**

Mikadze, I. S. A queueing system with several functioning states. (Russian. English summary) **89b:60225**

Mikulevičius, R. *see* **Grigelionis, B., 89e:60187** *and* **89e:60188**

Mitrani, I. *see* **Coffman, E. G., Jr., 89m:60219**

Mittal, S. P. (*with* Gupta, P. K.) Effect of twin births on the Markovian queue system $M/M/\infty$. **89g:60291**

Miyazawa, Masakiyo *see* **König, Dieter, 89d:60180**

Mokaddis, G. S. (*with* Zaki, S. S.) The limit distribution for a single server queueing system with finite waiting places. **89a:60225**

— The joint distribution of the busy and free periods of the mass service system. **89g:60292**

— (*with* Elias, S. S.; Metwally, S. A.; Soliman, E. A.) Three queues in parallel. **89e:60192**

— *see also* **Chaudhry, M. L., 89e:60185** *and* **McNickle, D. C., 89e:60191**

Morrison, John A. (*with* Shepp, L. A.; Van Wyk, Christopher J.) A queueing analysis of hashing with lazy deletion. **89a:60226**

— Conditioned response-time distribution for a large closed processor-sharing system with multiple classes in very heavy usage. **89j:60130**

Mukherjee, S. P. *see* **Chatterjee, U., 89f:60108**

Nagapetyan, R. Sh. A priority system for batch processing. (Russian. Armenian summary) **89g:60293**

Nain, Ph. *see* **Blanc, J. P. C.; et al., 89e:60184**

Neuts, Marcel F. Profile curves for the $M/G/1$ queue with group arrivals. **89i:60188**

Nicola, V. F. *see* **Kulkarni, V. G.; et al., 89a:60223**

Nishida, Toshio *see* **Ikeda, Zyūkiti, 89g:60281** *and* **89m:60232**

Niu, Shun Chen Representing workloads in $GI/G/1$ queues through the preemptive-resume LIFO queue discipline. **89d:60184**

Nobile, A. G. *see* **Giorno, V.; et al., 89a:60218**

Novikov, M. M. *see* **Turbin, A. F., 89e:60196**

(van Nunen, J. A. E. E.) *see* **Puterman, Martin L., 89c:60110**

Ososkov, G. A. *see* **Dvurečenskij, Anatolij, 89b:60213**

Ott, Teunis J. Simple inequalities for the $D/G/1$ queue. **89h:60157**

Pagurek, B. *see* **Stanford, D. A.; et al., 89f:60116**

Papaconstantinou, Xenophon *see* **Bertsimas, Dimitris, 89b:60207**

Parekh, Shyam (*with* Walrand, Jean) Quick simulation of excessive backlogs in networks of queues. **89c:60109**

Parthasarathy, P. R. A transient solution to an $M/M/1$ queue: a simple approach. **89h:60158a**

— *see also* **Syski, R., 89h:60158b**

Patterson, Richard L. (*with* Ma, Zhenkui) Sensitivity analyses of parameters of a $M(t)/G/\infty$ stochastic service system. (Not in MR)

Pearce, C. E. M. On the problem of re-attempted calls in teletraffic. **89d:60185**

Pechinkin, A. V. Limits on stationary queue length under various service disciplines. **89i:60189**

Phelan, Michael J. (*with* Prabhu, N. U.) Estimation from an infinite server queueing system with two demands. **89i:60190**

Popov, G. A. Domains of analyticity of Laplace-Stieltjes transforms of busy periods in $\vec{M}_r/\vec{G}_r/I/\infty$ systems. (Russian) **89k:60140**

Pósafalvi, A. (*with* Sztrik, J.) On the $\langle(m,n)(\vec{M}/\vec{M})1\rangle$ priority queues and their applications. (Russian summary) **89a:60227**

Pourbabai, Behnam Asymptotic analysis of $G/G/K$ queueing-loss system with retrials and heterogeneous servers. **89e:60193**

Prabhu, N. U. Comments on two papers by Jack Carl Kiefer and J. Wolfowitz on queueing theory: "On the theory of queues with many servers" [Trans. Amer. Math. Soc. **78** (1955), 1–18; MR **16**, 601] and "On the characteristics of the general queueing process with applications to random walk" [Ann. Math. Statist. **27** (1956), 147–161; MR **17**, 980]. **89a:60228**

— A bibliography of books and survey papers on queueing systems: theory and applications. **89d:60186**

— *see also* **Harris, Carl M., 89b:60214**; **Phelan, Michael J., 89i:60190** *and* **Basawa, I. V., 89m:60217**

Prizva, G. I. Some characteristics of an $M|G|1|\infty$ system with batch arrival and an unreliable server. (Ukrainian. Russian summary) **89i:60191**

Pukhal′skiĭ, A. A. *see* **Kogan, Ya. A., 89d:60179** *and* **Krichagina, E. V.; et al., 89f:60113**

Puterman, Martin L. (*with* Thomas, Lyn C.) A note on: "Computing optimal control limits for $GI/M/s$ queueing systems with controlled arrivals" [Management Sci. **29** (1983), no. 6, 725–734; MR 85b:60092] by J. A. E. E. van Nunen and Puterman. **89c:60110**

Ramaswami, V. A stable recursion for the steady state vector in Markov chains of $M/G/1$ type. **89d:60187**

— (*with* Lucantoni, D. M.) Moments of the stationary waiting time in the $GI/PH/1$ queue. **89g:60294**

Ramaswamy, Ravi *see* **Keilson, J., 89f:60111**

Rego, Vernon Some explicit formulas for mixed exponential service systems. **89k:60141**

Regterschot, G. J. K. *see* **van Doorn, Erik A., 89j:60125**

Reiman, Martin I. (*with* Simon, Burton; Weiss, Alan; Willie, J. Stanford) The application of likelihood ratio based derivative estimates in interpolation approximations for queueing systems. **89h:60159**

— A multiclass feedback queue in heavy traffic. **89d:60188**

— (*with* Simon, Burton) Light traffic limits of sojourn time distributions in Markovian queueing networks. **89k:60142**

— *see also* **Baccelli, F.; et al., 89g:60277**

Ricciardi, Luigi M. *see* **Giorno, V.; et al., 89a:60218**

Ridder, Ad *see* **Hordijk, Arie, 89m:60230**

Ritov, Yakov *see* **Haviv, Moshe, 89e:60189** *and* **89m:60229**

Rolski, Tomasz Approximation of periodic queues. **89c:60111**

— Relationships between characteristics in periodic Poisson queues. **89k:60143**

Rosberg, Zvi Bounds on the expected waiting time in a $GI/G/1$ queue: upgrading for low traffic intensity. **89b:60226**
Rybko, A. N. *see* **Kel'bert, M. Ya.; et al., 89m:60235**
Saakyan, V. G. *see* **Danielyan, È. A.**, (Not in MR)
Saito, Hiroshi^3 The output of loss systems with general service time distributions. **89k:60144**
Sardaryan, S. G. On the priority level in a linear parametric model. (Russian. Armenian summary) **89k:60145**
Schassberger, R. The steady-state distribution of spent service times present in the $M/G/1$ foreground-background processor-sharing queue. **89b:60227**
Schuss, Z. *see* **Knessl, C.; et al., 89d:60178**
Scott, Meckinley *see* **Gray, William J., 89m:60228**
Semeshko, E. A. *see* **Timofeev, B. B., 89a:60233**
Sengupta, Bhaskar The due date process. **89e:60194**
— Sojourn time distributions for the $M/M/1$ queue in a Markovian environment. **89a:60229**
Serfozo, Richard F. Extreme values of queue lengths in $M/G/1$ and $GI/M/1$ systems. **89m:60241**
Servi, L. D. *see* **Keilson, J., 89g:60285**
Shanthikumar, J. George (*with* Sumita, Ushio) Convex ordering of sojourn times in single-server queues: extremal properties of FIFO and LIFO service disciplines. **89c:60112**
— (*with* Yao, David D.) Stochastic monotonicity of the queue lengths in closed queueing networks. **89h:60160**
— On stochastic decomposition in $M/G/1$ type queues with generalized server vacations. **89g:60295**
— (*with* Yao, David D.) Throughput bounds for closed queueing networks with queue-dependent service rates. **89k:60146**
Sharma, B. B. (*with* Gupta, P. K.) Markovian queueing model—a case study. (Not in MR)
Sharma, Om Prakash (*with* Shobha, B.) On the busy period of an $M|M|1|N$ queue. **89g:60296**
— (*with* Shobha, B.) Transient behaviour of a double-channel Markovian queue with limited waiting space. **89c:60113**
— (*with* Dass, J.) Transient analysis of an $M/M/r$ machine interference model. **89k:60147**
Shepp, L. A. *see* **Morrison, John A.; et al., 89a:60226**
Shobha, B. *see* **Sharma, Om Prakash, 89c:60113** *and* **89g:60296**
Sidi, Moshe Two competing discrete-time queues with priority. **89m:60242**
Sigman, Karl Regeneration in tandem queues with multiserver stations. **89d:60189**
— Queues as Harris recurrent Markov chains. **89d:60190**
Signaevskiĭ, V. A. *see* **Logunov, M. G., 89b:60223**
Sim, S. H. *see* **Chaudhry, M. L.; et al., 89a:60212**
Simon, Burton *see* **Reiman, Martin I.; et al., 89h:60159** *and* **89k:60142**
Singh, K. Bidhi Cost analysis of a queueing system with two service facilities. (French summary) **89h:60161**
Sityuk, V. N. Asymptotic behavior of a queueing system with batch arrival of customers under conditions of inhomogeneous random perturbations. (Russian) **89f:60115**
Sivasamy, R. A non-preemptive priority queueing model with thresholds for the acceptance of nonpriority units in to service. **89e:60195**
Soliman, E. A. *see* **Mokaddis, G. S.; et al., 89e:60192**
Stadje, W. Some exact expressions for the bulk-arrival queue $M^X/M/1$. **89m:60243**
Stanford, D. A. (*with* Pagurek, B.; Woodside, C. M.) The serial correlation coefficients for waiting times in the stationary $GI/M/m$ queue. **89f:60116**
Stidham, Shaler, Jr. Scheduling, routing, and flow control in stochastic networks. **89b:60228**
Strusevich, V. A. Minimization of total queueing time for a system with nonfixed routes. (Russian) **89a:60230**
Sulanke, H. (*with* Arndt, Klaus) A conservation law for queueing systems with batch arrivals. (German and Russian summaries) **89m:60244**
— *see also* **Brandt, Andreas, 89f:60106a** *and* **89f:60106b**
Sumita, Ushio *see* **Shanthikumar, J. George, 89c:60112**
Svoronos, Antony (*with* Green, Linda) A convexity result for single-server exponential loss systems with nonstationary arrivals. **89h:60162**
Syski, R. Further comments on the solution of the $M/M/1$ queue. Comment on: "A transient solution to an $M/M/1$ queue: a simple approach" [Adv. in Appl. Probab. 19 (1987), no. 4, 997–998; MR 89h:60158a] by P. R. Parthasarathy. **89h:60158b**
Szekli, R. On the complete monotonicity of the waiting time density in some $GI/G/k$ systems. **89a:60231**
Szpankowski, Wojciech Stability conditions for multidimensional queueing systems with computer applications. **89k:60148**
Sztrik, J. On the $\langle n/\vec{G}/M/1\rangle$ queues and Erlang's loss formulas. **89i:60192**
— *see also* **Pósafalvi, A., 89a:60227**
Taaffe, Michael R. (*with* Clark, Gordon M.) Approximating nonstationary two-priority nonpreemptive queueing systems. **89a:60232**
Tairov, M. F. (*with* Ismaĭlova, N. A.) Distribution of the maximum of the length of a queue and some functionals related to it in a queueing system with time-dependent parameters. (Russian) (*see* **89b:41001**)
Takahashi, Haruhisa (*with* Akimaru, Haruo) A formula for mean queue length of $GI_1GI_2/GI_1GI_2/1$ preemptive-resume priority queues. **89i:60193**
Taneja, Hans Raj Multi-input tandem queueing under priority service rule. **89h:60163**
Tapiero, Charles S. *see* **Hsu, Lie Fern, 89b:60217**
Taylor, B. Alan *see* **Gail, H. R.; et al., 89i:60180**
Teghem, J., Jr. Optimal control of a removable server in an $M/G/1$ queue with finite capacity. **89b:60229**
Templeton, J. G. C. *see* **Chaudhry, M. L.; et al., 89a:60212; Yang, Tao, 89b:60232; Liu, Liming; et al., 89d:60183** *and* **Yang, Tao, 89k:60151**
Terzikyan, G. A. On a recurrent procedure for determining the waiting times in an $\vec{M}_r/\vec{G}_r/1/\infty$ model with absolute priorities. (Russian. Armenian summary) **89b:60230**
Thomas, Lyn C. *see* **Puterman, Martin L., 89c:60110**
Thorisson, Hermann *see* **Asmussen, Søren, 89e:60182**
Tian, Nai Shuo An inhomogeneous discrete-time queue with infinitely many servers. (Chinese) **89m:60245**
Tier, C. *see* **Knessl, C.; et al., 89d:60178**
Tikhonenko, O. M. Distribution of the total volume of messages in a queueing system with group arrival. (Russian. English summary) **89b:60231**
— The problem of determination of the summarized messages volume in queueing systems and its applications. (German and Russian summaries) **89h:60164**
Timofeev, B. B. (*with* Semeshko, E. A.) Invariance of the mean number of customers in priority queueing systems with a finite source. (Russian. English summary) **89a:60233**
Todor, Fabian *see* **Dahan, Simon, 89b:60211**
Topolski, K. Conditioned limit theorem for virtual waiting time process of the $GI/G/1$ queue. **89k:60149**
Trivedi, K. S. *see* **Kulkarni, V. G.; et al., 89a:60223**
Tsitsiashvili, G. Sh. Stability of queueing networks. **89g:60297**
Turbin, A. F. (*with* Novikov, M. M.) Stationary characteristics of a $GI|G|2|0$ queueing system. (Russian) **89e:60196**
Van Wyk, Christopher J. *see* **Morrison, John A.; et al., 89a:60226**
Volkovinskiĭ, M. I. (*with* Volkovinskiĭ, O. F.) A queueing system with variable parameters. **89k:60150**
Volkovinskiĭ, O. F. *see* **Volkovinskiĭ, M. I., 89k:60150**
van der Wal, Jan *see* **van Dijk, Nico M., 89m:60223**
Walrand, Jean *see* **Parekh, Shyam, 89c:60109**
Wang, Rong Xin (*with* Wu, Yun Jiang) Weak convergence of a queueing system for HL and PRE priority disciplines. (Chinese. English summary) **89m:60246**
Weiss, Alan *see* **Reiman, Martin I.; et al., 89h:60159**
Wessels, Jaap *see* **van Doremalen, Jan, 89k:60131**
Whitt, Ward *see* **Abate, Joseph, 89e:60178; 89g:60275** *and* **89m:60214**
Williams, Ruth J. *see* **Harrison, J. Michael, 89b:60215**
Willie, J. Stanford *see* **Reiman, Martin I.; et al., 89h:60159**
Willmot, Gordon E. A note on the equilibrium $M/G/1$ queue length. **89g:60298a**
— Letter to the editor. Comment on: "A note on the equilibrium $M/G/1$ queue length". **89g:60298b**
Wolff, Ronald W. Upper bounds on work in system for multichannel queues. **89a:60234**
(Wolfowitz, J.) *see* **Prabhu, N. U., 89a:60228**
Woodside, C. M. *see* **Stanford, D. A.; et al., 89f:60116**
Wu, Yun Jiang *see* **Wang, Rong Xin, 89m:60246**
Yadin, M. *see* **Kiessler, Peter C.; et al., 89d:60177**
Yanaru, Torao *see* **Fukagawa, Yukinori; et al.**, (Not in MR)
Yang, Tao (*with* Templeton, J. G. C.) A survey of retrial queues. **89b:60232**
— (*with* Templeton, J. G. C.) Correction: "A survey of retrial queues" [Queueing Systems Theory Appl. 2 (1987), no. 3, 201–233; MR 89b:60232]. **89k:60151**
Yao, David D. *see* **Shanthikumar, J. George, 89h:60160** *and* **89k:60146**
Yechiali, Uri *see* **Kella, Offer, 89b:60221**
Yoshida, Sho *see* **Fukagawa, Yukinori; et al.**, (Not in MR)
Yu, Ke Ming *see* **Jin, Xing, 89g:60282**
Yushkevich, A. A. Application of Bellman inequalities to the control of a queueing system. (Russian) **89f:60117**
Zaki, S. S. *see* **Mokaddis, G. S., 89a:60225**
Zipkin, Paul H. *see* **Harel, Arie, 89a:60220**
Zorin, V. A. A subclass of the distributions of A. Ya. Khinchin. **89g:60299**

Items with secondary classifications in 60K25

Akyildiz, I. F. Product form approximations for queueing networks with multiple servers and blocking. (Not in MR)
Alidrisi, Mustafa M. Linear programming model for the optimal control of a queueing network. **89b:90086**
Aubakirov, T. U. The properties of monotonicity and stability of population processes and their application for an error estimate for the Wilkinson method. (Russian) **89g:60227**
Avi-Itzhak, Benjamin (*with* Halfin, Shlomo) Response times in $M/M/1$ time-sharing schemes with limited number of service positions. **89e:90121**
Baccelli, F. (*with* Fayolle, G.) Analysis of models reducible to a class of diffusion processes in the positive quarter plane. **89b:60168**
Barossov, Krasimir R. An optimal control of the service in a system with evident and latent service breakdowns. (Bulgarian summary) **89d:93066**
Berenshteĭn, A. D. (*with* Vaĭnshteĭn, A. D.; Kreĭnin, A. Ya.) The convexity property of the Poisson distribution and its applications in queueing theory. (Russian) **89h:60027**
Bertsimas, Dimitris (*with* Papaconstantinou, Xenophon) Analysis of the stationary $E_k/C_2/s$ queueing system. **89j:90121**
Bhat, U. Narayan *see* **Lal, Ram, 89k:60091**
Blunden, A. R. *see* **Blunden, W. R.; et al., 89d:76001**
Blunden, W. R. (*with* Gostelow, J. P.; Blunden, A. R.) On the application of queueing theory concepts to boundary layer transition. **89d:76001**
Boxma, O. J. (*with* Groenendijk, Wim P.) Waiting times in discrete-time cyclic-service systems. **89g:90107**
— *see also* **Queueing theory and its applications, 89e:60004**
Cao, Xi-Ren Realization probability in multi-class closed queuing networks. **89k:90066**
Chan, R. H. Iterative methods for overflow queuing models. II. **89g:90108**
Chung, K. P. Steady state solution and convergence rate of time-dependent Markov chains of queuing networks. **89g:90109**
— Steady state solution and convergence rate of time-dependent Markov chains of queuing networks. (*see* **89d:00007**)
(Cohen, J. W.) *see* **Queueing theory and its applications, 89e:60004**
Csörgő, Miklós (*with* Deheuvels, Paul; Horváth, Lajos) An approximation of stopped sums with applications in queueing theory. **89c:60045**
Deheuvels, Paul *see* **Csörgő, Miklós; et al., 89c:60045**
van Dijk, Nico M. (*with* Puterman, Martin L.) Perturbation theory for Markov reward processes with applications to queueing systems. **89h:60108**
— Perturbation theory for unbounded Markov reward processes with applications to queueing. **89h:60109**
— On Jackson's product form with "jump-over" blocking. **89h:90097**
Disney, Ralph L. (*with* Kiessler, Peter C.) ★ Traffic processes in queueing networks. **89b:90081**

Doshi, Bharat (*with* Wong, Wing Shing) Exact solution of a simple finite infinite source interaction model. **89c:90055**
Fayolle, G. *see* **Baccelli, F., 89b:60168**
Fuhrmann, Steve W. (*with* Wang, Yung Terng) Analysis of cyclic service systems with limited service: bounds and approximations. **89j:90123**
Gavish, Bezalel (*with* Sumita, Ushio) Analysis of channel and disk subsystems in computer systems. **89c:68013**
Gostelow, J. P. *see* **Blunden, W. R.; et al., 89d:76001**
Groenendijk, Wim P. *see* **Boxma, O. J., 89g:90107**
Gupta, U. C. Steady state results for the transportation system with k classes of vehicles. **89h:90098**
Halfin, Shlomo *see* **Avi-Itzhak, Benjamin, 89e:90121**
Hirayama, Tetsuji Nonpreemptive scheduling of a finite-source queue with two customer classes. (Japanese summary) **89d:90102**
— Optimal service assignment in a finite-source queue. **89j:90148**
Hofri, Micha Reduced state-space heuristics for symmetric Markovian queueing systems. **89j:90124**
Hooghiemstra, Gerard (*with* Keane, Michael; van de Ree, Simon) Power series for stationary distributions of coupled processor models. **89h:68006**
Horváth, Lajos *see* **Csörgő, Miklós; et al., 89c:60045**
Hsu, Lie Fern (*with* Tapiero, Charles S.) A Bayes approach to quality control of an $M/G/1$ queue. **89b:62209**
Jain, Sudha (*with* Templeton, J. G. C.) Statistical inference for $G/M/1$ queueing system. **89j:90125**
Keane, Michael *see* **Hooghiemstra, Gerard; et al., 89h:68006**
Kiessler, Peter C. *see* **Disney, Ralph L., 89b:90081**
Klüppelberg, Claudia Subexponential distributions and integrated tails. **89c:60016**
Kogan, Ya. A. (*with* Lyakhov, A. I.) Asymptotic analysis of the capacity of multiprocessor systems with common buses. (Not in MR)
Kolesnik, A. D. Statistical simulation of a closed queueing system with variable intensity of call generation. (Russian) **89d:90103**
Konstantopoulos, Panagiotis (*with* Walrand, Jean) On the weak convergence of stochastic processes with embedded point processes. **89g:60133**
Kreĭnin, A. Ya. *see* **Berenshteĭn, A. D.; et al., 89h:60027**
Kumar, Uma (*with* Kumar, Vinod^2) Queue length distributions of the $M/G/I$ queueing system: some information theoretic approximations. **89k:90068**
Kumar, Vinod^2 *see* **Kumar, Uma, 89k:90068**
Lal, Ram (*with* Bhat, U. Narayan) Correction: "Reduced systems in Markov chains and their applications in queueing theory" [Queueing Systems Theory Appl. **2** (1987), no. 2, 147–172; MR 88k:60123]. **89k:60091**
Lavenberg, S. S. A perspective on queueing models of computer performance. **89j:68017**
Luo, Rong Gui Serial queueing system with two service mechanisms. **89h:90103**
Lyakhov, A. I. *see* **Kogan, Ya. A.**, (Not in MR)
Martin, Gene E. (*with* Pankoff, L. D.) Optimal customer decisions in a $G/M/c$ queue. **89h:90104**
McKenna, James Asymptotic expansions of the sojourn time distribution functions of jobs in closed, product-form queuing networks. **89a:68016**
— Extensions and applications of RECAL in the solution of closed product-form queueing networks. **89g:90110**
Menaldi, José-Luis (*with* Robin, Maurice) On the control of queueing systems with failures and repairs. **89h:90105**
Miyazawa, Masakiyo (*with* Yamazaki, Genji) The basic equations for a supplemented GSMP and its applications to queues. **89m:60209**
Mizuno, Norihiro Some thoughts on an $O(N^3)$-algorithm for the optimal control of arrivals in a $GI/M/1/N$ queue. **89f:90065**
Morrison, John A. Conditioned response-time distribution for a large closed processor-sharing system in very heavy usage. **89c:68014**
Naumova, E. O. Formulas for the variances of statistical estimates of characteristics for a single-server system with repeated calls. (Russian) (*see* **89m:94001**)
Pankoff, L. D. *see* **Martin, Gene E., 89h:90104**
Papaconstantinou, Xenophon *see* **Bertsimas, Dimitris, 89j:90121**
Parekh, Shyam (*with* Walrand, Jean) A quick simulation method for excessive backlogs in networks of queues. **89j:90127**
Paul, D. W. Randomized formal systems for specifying discrete stochastic models. **89d:00020**
Phelan, Michael J. (*with* Prabhu, N. U.) Nonparametric estimation from queues arising in staggered entry clinical trials. **89j:62140**
Pourbabai, Behnam Tandem behavior of an $M/M/1/N \rightarrow G/M/1$ queuing system. **89g:90112**
Prabhu, N. U. *see* **Phelan, Michael J., 89j:62140**
Puterman, Martin L. *see* **van Dijk, Nico M., 89h:60108**
Radian, Eugen On the Markov renewal character of some queueing systems. **89a:60205**
van de Ree, Simon *see* **Hooghiemstra, Gerard; et al., 89h:68006**
Rembowski, Bogdan Feedback queueing network—statistical properties of customer streams and approximate solutions. (Polish. English summary) (Not in MR)
Ridder, Ad Stochastic ordering of conditional steady-state probabilities. **89g:60232**
Ripley, B. D. Simulation methodology—an introduction for queueing theorists. **89h:90108**
Robin, Maurice *see* **Menaldi, José-Luis, 89h:90105**
Rootzén, Holger Maxima and exceedances of stationary Markov chains. **89e:60129**
Sarma, Yadavalli V. S. A $G/0/G$-system with slow switch. **89k:90075**
Schechner, Zvi *see* **Yao, David D., 89j:90130**
Schruben, Lee W. (*with* Yucesan, Enver) Transaction tagging in highly congested queueing simulations. **89i:68003**
Serfozo, Richard F. Equitable transit charges for multi-administration telecommunications networks. **89b:90082**
— Extreme values of birth and death processes and queues. **89f:60100**
Shanthikumar, J. George Stochastic majorization of random variables with proportional equilibrium rates. **89b:60040**
Solodyannikov, Yu. V. Robust nonparametric estimation of the characteristics of queueing systems. **89g:62064**
Steinebach, Josef On certain limits of strong invariance principles. **89b:60089**
Sumita, Ushio *see* **Gavish, Bezalel, 89c:68013**
Syski, R. Markov processes and teletraffic. **89k:60113**
— *see also* **Queueing theory and its applications, 89e:60004**
Takahashi, Yoshitaka On the relationship between work load and waiting time in single server queues with batch inputs. **89e:90107**
Tapiero, Charles S. *see* **Hsu, Lie Fern, 89b:62209**
Templeton, J. G. C. *see* **Jain, Sudha, 89j:90125**
Tran-Gia, P. A class of renewal interrupted Poisson processes and applications to queueing systems. (German summary) **89d:60160**
Vaĭnshteĭn, A. D. *see* **Berenshteĭn, A. D.; et al., 89h:60027**
Walrand, Jean *see* **Konstantopoulos, Panagiotis, 89g:60133** *and* **Parekh, Shyam, 89j:90127**
Wang, Yung Terng *see* **Fuhrmann, Steve W., 89j:90123**
Wijbrands, Rudolf Johannes ★ Queuing network models and performance analysis of computer systems. **89g:68003**
Wolff, Ronald W. Sample-path derivations of the excess, age, and spread distributions. **89d:60161**
Wong, Wing Shing *see* **Doshi, Bharat, 89c:90055**
Yamazaki, Genji *see* **Miyazawa, Masakiyo, 89m:60209**
Yao, David D. (*with* Schechner, Zvi) Decentralized control of service rates in a closed Jackson network. **89j:90130**
Yucesan, Enver *see* **Schruben, Lee W., 89i:68003**

Items listed otherwise than by author

Birthday:
Cohen, Jacob Willem ★ Queueing theory and its applications. **89e:60004**
Queueing theory and its applications ★ Queueing theory and its applications. **89e:60004**

60K30 Applications (congestion, allocation, storage, traffic, etc.) [see also 60J80]

Abol′nikov, Lev On some inventory control problems with state-dependent parameters. **89a:60235**
Attia, F. A. The control of a finite dam with penalty cost function: Wiener process input. **89e:60197**
Ballerini, Rocco The minimum of a unit-release reservoir with Markovian inputs. **89k:60152**
Cohen, Joel E. Subadditivity, generalized products of random matrices and operations research. **89g:60300**
Gani, J. M. (*with* Todorovic, P.) On the persistent release of particles in a fluid flow. **89b:60233**
— (*with* Todorovic, P.; Yakowitz, S.) Silting of dams by sedimentary particles. **89h:60165**
Greenwood, Priscilla E. (*with* Hooghiemstra, Gerard) An extreme-type limit law for a storage process. **89d:60191**
Hooghiemstra, Gerard *see* **Greenwood, Priscilla E., 89d:60191**
Mitra, Debasis Stochastic theory of a fluid model of producers and consumers coupled by a buffer. **89h:60166**
Phatarfod, Ravindra M. Sums and weighted sums of a gamma Markov sequence. **89c:60114**
Todorovic, P. *see* **Gani, J. M., 89b:60233** *and* **89h:60165**
Tollar, Eric S. On the limit behavior of a multicompartment storage model with an underlying Markov chain. **89g:60301**
Yakowitz, S. *see* **Gani, J. M.; et al., 89h:60165**

Items with secondary classifications in 60K30

Baklan, V. V. (*with* Shkvarchenko, T. V.) A probabilistic model for transportation flow. (Russian) **89h:90096**
(Cohen, J. W.) *see* **Le Gall, Pierre, 89m:60239**
van Doorn, Erik A. (*with* Regterschot, G. J. K.) Conditional PASTA. **89j:60125**
Downey, Peter J. (Probably) the minimum sum of squares. **89b:05071**
Hardin, Douglas P. (*with* Takáč, Peter; Webb, G. F.) Asymptotic properties of a continuous-space discrete-time population model in a random environment. **89j:92052**
Hooghiemstra, Gerard A path construction for the virtual waiting time of an $M/G/1$ queue. **89a:60221**
Kalamatianou, A. G. A model for responding to promotion blockages. **89i:90045**
Lam, Yeh Optimal control of a finite dam—discounted cost case. **89g:90087**
Le Gall, Pierre Some comments on the work of J. W. Cohen and new results in the theory of queueing networks. **89m:60239**
Leśkow, Jacek Estimation of the periodic function in the multiplicative intensity model. **89b:62184**
Regterschot, G. J. K. *see* **van Doorn, Erik A., 89j:60125**
Shkvarchenko, T. V. *see* **Baklan, V. V., 89h:90096**
Srinivasan, S. K. Analysis of s, S inventory systems with general lead time and demand distribution and adjustable reorder size. **89j:90087**
Takáč, Peter *see* **Hardin, Douglas P.; et al., 89j:92052**
Webb, G. F. *see* **Hardin, Douglas P.; et al., 89j:92052**
Wijbrands, Rudolf Johannes ★ Queuing network models and performance analysis of computer systems. **89g:68003**
Zakusilo, O. K. Equations for stationary distributions of inventory processes with additive input. (Russian) **89h:90078**
Ziedins, Ilze Quasistationary distributions and one-dimensional circuit-switched networks. **89g:60233**

60K35 Interacting random processes; statistical mechanics type models; percolation theory

Andjel, Enrique D. A correlation inequality for the symmetric exclusion process. **89d:60192**
— A zero or one law for one-dimensional random walks in random environments. **89e:60198**
— The contact process in high dimensions. **89j:60131**

Balding, David Diffusion-reaction in one dimension. **89i:60194**

Bebie, H. (*with* Marchand, J.-P.) Population model with quasi-periodic clustering. **89g:60302**

Benassi, Albert (*with* Fouque, Jean-Pierre) Hydrodynamical limit for the asymmetric zero-range process. (French summary) **89k:60153**

van den Berg, Michiel (*with* Lewis, John Trevor) Limit theorems for stochastic processes associated with a boson gas. **89m:60247**

— (*with* Lewis, John Trevor; Pulé, J. V.) Large deviations and the boson gas. **89m:60248**

Bessis, Daniel *see* **Derrida, B.**, **89k:60155**

Boldrighini, C. (*with* De Masi, A.; Pellegrinotti, A.; Presutti, Errico) Collective phenomena in interacting particle systems. **89c:60115**

Bramson, Maury (*with* Griffeath, David) Survival of cyclical particle systems. **89b:60234**

— (*with* Cox, J. Theodore; Griffeath, David) Occupation time large deviations of the voter model. **89c:60116**

— (*with* Durrett, Rick) A simple proof of the stability criterion of Gray and Griffeath. **89m:60249**

— (*with* Griffeath, David) Flux and fixation in cyclic particle systems. **89k:60154**

Carlen, Eric A. (*with* Stroock, Daniel W.) An application of the Bakry-Emery criterion to infinite-dimensional diffusions. **89h:60167**

Chayes, J. T. (*with* Chayes, L.; Durrett, Rick) Connectivity properties of Mandelbrot's percolation process. **89d:60193**

Chayes, L. *see* **Chayes, J. T.; et al.**, **89d:60193**

Chen, Mu Fa Existence theorems for interacting particle systems with noncompact state spaces. **89a:60236**

Comets, Francis (*with* Eisele, Th.) Asymptotic dynamics, noncritical and critical fluctuations for a geometric long-range interacting model. **89m:60250**

Cox, J. Theodore (*with* Griffeath, David) Recent results for the stepping stone model. **89f:60118**

— Some limit theorems for voter model occupation times. **89m:60251**

— *see also* **Bramson, Maury; et al.**, **89c:60116**

Dai, Yong Long (*with* Liu, Xi Jian) Quasi-nearest particle systems. **89a:60237**

De Masi, A. *see* **Boldrighini, C.; et al.**, **89c:60115**

Derrida, B. (*with* Bessis, Daniel) Statistical properties of valleys in the annealed random map model. **89k:60155**

Deuschel, J.-D. Infinite-dimensional diffusion processes as Gibbs measures on $C[0,1]^{\mathbf{Z}^d}$. **89m:60252**

Ding, Wan Ding *see* **Zheng, Xiao Gu**, **89d:60197**

Dittrich, P. A stochastic model of a chemical reaction with diffusion. **89k:60156**

Dobrushin, R. L. A new approach to the analysis of Gibbs perturbations of Gaussian fields. **89m:60253**

Dürr, Detlef (*with* Goldstein, Sheldon; Lebowitz, Joel L.) Self-diffusion in a nonuniform one-dimensional system of point particles with collisions. **89b:60235**

Durrett, Rick (*with* Schonmann, R. H.) Stochastic growth models. **89b:60236**

— ★ Lecture notes on particle systems and percolation. **89k:60157**

— (*with* Liu, Xiu Fang) The contact process on a finite set. **89f:60119**

— (*with* Schonmann, R. H.) The contact process on a finite set. II. **89m:60254**

— Crabgrass, measles, and gypsy moths: an introduction to interacting particle systems. **89a:60238**

— (*with* Schonmann, R. H.) Large deviations for the contact process and two-dimensional percolation. **89i:60195**

— *see also* **Chayes, J. T.; et al.**, **89d:60193** *and* **Bramson, Maury**, **89m:60249**

Eisele, Th. *see* **Comets, Francis**, **89m:60250**

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Items with secondary classifications in 62–01

Cattermole, Kenneth W. ★ Mathematical foundations for communication engineering. Vol. 2. **89c:94001**
Cornell, John A. *see* **Khuri, André I., 89d:62079**
Dürr, Walter (*with* Mayer, Horst) ★ Wahrscheinlichkeitsrechnung und Schließende Statistik. (German) [Calculus of probabilities and statistical inference] **89k:60002**
Góngora, H. A presentation of various approaches to the calculation of confidence intervals. (Spanish) (*see* **89k:00010**)
Khuri, André I. (*with* Cornell, John A.) ★ Response surfaces. **89d:62079**
Krzanowski, W. J. ★ Principles of multivariate analysis. **89i:62101**
Mayer, Horst *see* **Dürr, Walter, 89k:60002**
Mildenberger, Otto ★ Grundlagen der Statistischen Systemtheorie. (German) [Foundations of statistical system theory] **89k:94001**

62–02 Advanced exposition (research surveys, monographs, etc.)

Castillo, Enrique ★ Extreme value theory in engineering. **89j:62001**
Chatterjee, Samprit (*with* Hadi, Ali S.) ★ Sensitivity analysis in linear regression. **89i:62002**
Consul, P. C. ★ Generalized Poisson distributions. **89m:62002**
Dijkstra, J. B. ★ Analysis of means in some nonstandard situations. **89d:62001**
Efron, Bradley Computer-intensive methods in statistical regression. **89e:62001**
Embleton, B. J. J. *see* **Fisher, N. I.; et al., 89b:62002**
Fisher, N. I. (*with* Lewis, Toby; Embleton, B. J. J.) ★ Statistical analysis of spherical data. **89b:62002**
Fisz, Marek ★ Wahrscheinlichkeitsrechnung und mathematische Statistik. (German) [Probability theory and mathematical statistics] **89k:62002**
Hadi, Ali S. *see* **Chatterjee, Samprit, 89i:62002**
Lewis, P. A. W. (*with* Orav, E. J.) ★ Simulation methodology for statisticians, operations analysts, and engineers. Vol. I. **89j:62002**
Lewis, Toby *see* **Fisher, N. I.; et al., 89b:62002**
Liese, Friedrich (*with* Vajda, Igor) ★ Convex statistical distances. **89g:62006**
Moore, Marc Inférence statistique dans les processus stochastiques: aperçu historique. (English summary) [Statistical inference in stochastic processes: a historical overview] **89g:62007**
Müller, Hans-Georg ★ Nonparametric regression analysis of longitudinal data. **89i:62003**
Orav, E. J. *see* **Lewis, P. A. W., 89j:62002**
Pázman, Andrej Geometric methods in mathematical statistics. (Slovak) (Not in MR)
(Sulanke, H.) *see* **Fisz, Marek, 89k:62002**
(Sulanke, Rolf) *see* **Fisz, Marek, 89k:62002**
Vajda, Igor *see* **Liese, Friedrich, 89g:62006**
(Wloka, Joseph) *see* **Fisz, Marek, 89k:62002**
(Ziegler, Viktor) *see* **Fisz, Marek, 89k:62002**

Items with secondary classifications in 62–02

Bartlett, M. S. Stochastic models and field trials. **89j:92006**
Diaconis, P. Application of the method of moments in probability and statistics. **89m:60006**
Stone, Mervyn ★ Coordinate-free multivariable statistics. **89g:62095**
Žilinskas, Antanas ★ Глобальная оптимизация. (Russian) [Global optimization] **89e:65064**

62–03 Historical (must also be assigned at least one classification number from Section 01)

Zabell, S. L. The probabilistic analysis of testimony. **89j:62003**

Items with secondary classifications in 62–03

(Bayes, Thomas) *see* **Gillies, Donald A., 89a:01061**
(Bessel, Friedrich Wilhelm) *see* **Swijtink, Zeno G., 89c:01101**
(Bošković, Rudjer) *see* **Swijtink, Zeno G., 89c:01101**
(Chebyshev, P. L.) *see* **Golovinskiĭ, I. A., 89a:01032**
(Chuprov, A. A.) *see* **Seneta, E., 89g:01040**
Dale, A. I. On Bayes' theorem and the inverse Bernoulli theorem. (French and German summaries) **89j:01029**
Daston, Lorraine J. The domestication of risk: mathematical probability and insurance 1650–1830. **89f:01025**
Epstein, Roy J. ★ A history of econometrics. **89d:62112**
Farebrother, R. W. The historical development of the L_1 and L_∞ estimation procedures: 1793–1930. **89j:01040**
Fox, Karl A. Econometrics needs a history: two cases of conspicuous neglect. **89d:01047**
(Gauß, Carl Friedrich) *see* **Swijtink, Zeno G., 89c:01101** *and* **Sheĭnin, O. B., 89k:01021**
Gillies, Donald A. Was Bayes a Bayesian? (French and Italian summaries) **89a:01061**
Golovinskiĭ, I. A. P. L. Chebyshev's justification of the method of least squares. (Russian) **89a:01032**
Hansen, Morris H. Some history and reminiscences on survey sampling. **89b:62029b**
— *see also* **Olkin, Ingram, 89b:62029a**
Harter, H. Leon History and role of order statistics. **89i:62081**
(Legendre, Adrien Marie) *see* **Swijtink, Zeno G., 89c:01101**
Olkin, Ingram A conversation with Morris Hansen. **89b:62029a**
Seneta, E. Chuprov on finite exchangeability, expectation of ratios, and measures of association. (French and German summaries) **89g:01040**
Sheĭnin, O. B. C. F. Gauss and the χ-square distribution. **89k:01021**
Swijtink, Zeno G. The objectification of observation: measurement and statistical methods in the nineteenth century. **89c:01101**

Items listed otherwise than by author

Biography:
Hansen, Morris H. *see* **Olkin, Ingram, 89b:62029a**

62–04 Explicit machine computation and programs (not the theory of computation or programming)

Gadh, R. *see* **Pope, S. B., 89e:62002**
Hopke, P. K. *see* **Kaufman, Linda; et al.**, (Not in MR)
Kaufman, Linda (*with* Hopke, P. K.; Rousseeuw, Peter J.) Using a parallel computer system for statistical resampling methods. (Not in MR)
Lee, Carl M.-S. On the computation of F-cumulative probabilities. (Not in MR)
Martynov, G. V. Statistical-probability programs from *Applied statistics*. (Russian) (*see* **89g:00011**)

Messéan, A. A generalization of Gauss-Marquardt algorithm for exponential families problems. **89d:62002**

Pope, S. B. (*with* Gadh, R.) Fitting noisy data using cross-validated cubic smoothing splines. **89e:62002**

Rousseeuw, Peter J. *see* **Kaufman, Linda; et al.**, (Not in MR)

Items with secondary classifications in 62–04

Basford, Kaye E. *see* **McLachlan, Geoffrey J., 89b:62127**

Chrobak, Marek (*with* Harter, Richard) A note on random sampling. **89m:68047**

Harter, Richard *see* **Chrobak, Marek, 89m:68047**

McLachlan, Geoffrey J. (*with* Basford, Kaye E.) ★ Mixture models. **89b:62127**

Thisted, Ronald A. ★ Elements of statistical computing. **89h:65005**

62–06 Proceedings, conferences, etc.

(Adler, Yu. P.) *see* **Efron, Bradley, 89d:62003**

(Aoki, Masanao) *see* **Economic time series with random walk and other nonstationary components, 89j:62004**

(Bandemer, Hans) *see* **Some applications of fuzzy set theory in data analysis, 89b:62006**

(Bunke, Olaf) *see* **Seminar: Nonlinear Regression, 89b:62005**

(Diday, E.) *see* **Data analysis and informatics, 89g:62009**

(Dodge, Yadolah) *see* **Statistical data analysis based on the L_1-norm and related methods, 89b:62009**

(Dodson, C. T. J.) *see* **Geometrization of statistical theory, 89g:62010**

(Droesbeke, F.) *see* **Spatial processes and spatial time series analysis, 89b:62007**

(Edwards, David G.) *see* **COMPSTAT, 89i:62004**

Efron, Bradley ★ Нетрадиционные методы многомерного статистического анализа. (Russian) [Nontraditional methods for multidimensional statistical analysis] **89d:62003**

(Erickson, Gary J.) *see* **Maximum-entropy and Bayesian methods in science and engineering, 89f:62001** *and* **89f:62002**

(Florens, J.-P.) *see* **Asymptotic theory for non i.i.d. processes, 89b:62003** *and* **Spatial processes and spatial time series analysis, 89b:62007**

(Hallin, Marc) *see* **Spatial processes and spatial time series analysis, 89b:62007**

(Heiberger, Richard M.) *see* **Computer science and statistics, 89c:62004**

(Jolivet, Emmanuel) *see* **Seminar: Nonlinear Regression, 89b:62005**

(Koshevnik, Yu. A.) *see* **Efron, Bradley, 89d:62003**

(Lefevre, C.) *see* **Spatial processes and spatial time series analysis, 89b:62007**

(Martin, Marianne T.) *see* **Computer science and statistics, 89c:62004**

(Mouchart, M.) *see* **Asymptotic theory for non i.i.d. processes, 89b:62003** *and* **Spatial processes and spatial time series analysis, 89b:62007**

(Racugno, Walter) *see* **Survey of statistical methods and applications, 89a:62003**

(Raoult, J.-P.) *see* **Asymptotic theory for non i.i.d. processes, 89b:62003** *and* **Spatial processes and spatial time series analysis, 89b:62007**

(Raun, N. E.) *see* **COMPSTAT, 89i:62004**

(Rolin, Jean-Marie) *see* **Asymptotic theory for non i.i.d. processes, 89b:62003**

(Simar, L.) *see* **Asymptotic theory for non i.i.d. processes, 89b:62003** *and* **Spatial processes and spatial time series analysis, 89b:62007**

(Smith, C. Ray) *see* **Maximum-entropy and Bayesian methods in science and engineering, 89f:62001** *and* **89f:62002**

(Snijders, T. A. B.) *see* **Discussion: Statistics versus data-analysis,** (Not in MR)

(Solntsev, V. N.) *see* **Efron, Bradley, 89d:62003**

(Solomon, Herbert) *see* **Assessing uncertainty, 89g:62008**

(Wegman, E. J.) *see* **Assessing uncertainty, 89g:62008**

Items listed otherwise than by author

Assessing uncertainty ★ Assessing uncertainty. **89g:62008**

Asymptotic methods of statistics ★ Asymptotic methods of statistics. (Japanese) **89c:62003**

Asymptotic theory for non i.i.d. processes ★ Asymptotic theory for non i.i.d. processes. **89b:62003**

Berlin ★ Gemeinsames Arbeitsseminar über "Nichtlineare Regression". [Joint work seminar on nonlinear regression] **89b:62005**

Brussels ★ Spatial processes and spatial time series analysis. **89b:62007**

Cagliari ★ Rassegna di metodi statistici ed applicazioni. 5. [Survey of statistical methods and applications. 5] **89a:62003**

Chicago, Ill. ★ 1986 Proceedings of the Section on Statistical Graphics, American Statistical Association. **89b:62004a**

— ★ 1986 Proceedings of the Social Statistics Section, American Statistical Association. **89b:62004b**

— ★ 1986 Proceedings of the Section on Statistical Education, American Statistical Association. **89b:62004c**

— ★ 1986 Proceedings of the Statistical Computing Section, American Statistical Association. **89b:62004d**

COMPSTAT ★ COMPSTAT 1988. **89i:62004**

Computer science and statistics ★ Computer science and statistics. **89c:62004**

Conference:
- **Statistical Data Analysis Based on the L_1-norm and Related Methods** ★ Statistical data analysis based on the L_1-norm and related methods. **89b:62009**

Congress:
- **Actuaries** ★ Special issue for ICA 1988 Helsinki. **89b:62008**

Copenhagen ★ COMPSTAT 1988. **89i:62004**

Data analysis and informatics ★ Data analysis and informatics. V. **89g:62009**

Discussion:
- **Statistics versus data-analysis** ★ Discussion on statistics versus data-analysis. (Not in MR)

Economic time series with random walk and other nonstationary components ★ Economic time series with random walk and other nonstationary components. **89j:62004**

Geometrization of statistical theory ★ Geometrization of statistical theory. **89g:62010**

Helsinki ★ Special issue for ICA 1988 Helsinki. **89b:62008**

Lancaster ★ Geometrization of statistical theory. **89g:62010**

Laramie, WY ★ Maximum-entropy and Bayesian methods in science and engineering. Vol. 1. **89f:62001**

— ★ Maximum-entropy and Bayesian methods in science and engineering. Vol. 2. **89f:62002**

Luminy-Marseille ★ Asymptotic theory for non i.i.d. processes. **89b:62003**

Maximum-entropy and Bayesian methods in science and engineering ★ Maximum-entropy and Bayesian methods in science and engineering. Vol. 1. **89f:62001**

— ★ Maximum-entropy and Bayesian methods in science and engineering. Vol. 2. **89f:62002**

Meeting:
- **American Statistical Association, Section on Statistical Education** ★ 1986 Proceedings of the Section on Statistical Education, American Statistical Association. **89b:62004c**
- **American Statistical Association, Section on Statistical Graphics** ★ 1986 Proceedings of the Section on Statistical Graphics, American Statistical Association. **89b:62004a**
- **American Statistical Association, Statistical Computing Section** ★ 1986 Proceedings of the Statistical Computing Section, American Statistical Association. **89b:62004d**
- **American Statistics Association, Social Statistics Section** ★ 1986 Proceedings of the Social Statistics Section, American Statistical Association. **89b:62004b**
- **Asymptotic Theory for Non I.I.D. Processes** ★ Asymptotic theory for non i.i.d. processes. **89b:62003**
- **Statisticians** ★ Spatial processes and spatial time series analysis. **89b:62007**

Neuchâtel ★ Statistical data analysis based on the L_1-norm and related methods. **89b:62009**

Philadelphia, PA ★ Computer science and statistics. **89c:62004**

Proceedings:
- **Meeting of the American Statistical Association, Section on Statistical Education** ★ 1986 Proceedings of the Section on Statistical Education, American Statistical Association. **89b:62004c**
- **Meeting of the American Statistical Association, Section on Statistical Graphics** ★ 1986 Proceedings of the Section on Statistical Graphics, American Statistical Association. **89b:62004a**
- **Meeting of the American Statistical Association, Social Statistics Section** ★ 1986 Proceedings of the Social Statistics Section, American Statistical Association. **89b:62004b**
- **Meeting of the American Statistical Association, Statistical Computing Section** ★ 1986 Proceedings of the Statistical Computing Section, American Statistical Association. **89b:62004d**
- **Section on Statistical Education, American Statistical Association** ★ 1986 Proceedings of the Section on Statistical Education, American Statistical Association. **89b:62004c**
- **Section on Statistical Graphics, American Statistical Association** ★ 1986 Proceedings of the Section on Statistical Graphics, American Statistical Association. **89b:62004a**
- **Social Statistics Section, American Statistical Association** ★ 1986 Proceedings of the Social Statistics Section, American Statistical Association. **89b:62004b**
- **Statistical Computing Section, American Statistical Association** ★ 1986 Proceedings of the Statistical Computing Section, American Statistical Association. **89b:62004d**

Seattle, WA ★ Maximum-entropy and Bayesian methods in science and engineering. Vol. 1. **89f:62001**

— ★ Maximum-entropy and Bayesian methods in science and engineering. Vol. 2. **89f:62002**

Seminar:
- **Nonlinear Regression** ★ Gemeinsames Arbeitsseminar über "Nichtlineare Regression". [Joint work seminar on nonlinear regression] **89b:62005**

Some applications of fuzzy set theory in data analysis ★ Some applications of fuzzy set theory in data analysis. **89b:62006**

Spatial processes and spatial time series analysis ★ Spatial processes and spatial time series analysis. **89b:62007**

Special issue:
- **Assessing uncertainty** ★ Assessing uncertainty. **89g:62008**

Special Issue:
- **Economic time series with random walk and other nonstationary components** ★ Economic time series with random walk and other nonstationary components. **89j:62004**

Special issue:
- **ICA** ★ Special issue for ICA 1988 Helsinki. **89b:62008**

Statistical data analysis based on the L_1-norm and related methods ★ Statistical data analysis based on the L_1-norm and related methods. **89b:62009**

Statistical methods ★ Statistical methods. **89b:62010**

Statistical methods of estimation and verification of hypothesis ★ Statistical methods of estimation and verification of hypothesis. **89c:62005**

Survey of statistical methods and applications ★ Rassegna di metodi statistici ed applicazioni. 5. [Survey of statistical methods and applications. 5] **89a:62003**

Symposium:
- **Asymptotic Methods of Statistics** ★ Asymptotic methods of statistics. (Japanese) **89c:62003**
- **Computational Statistics** ★ COMPSTAT 1988. **89i:62004**
- **Data Analysis and Informatics** ★ Data analysis and informatics. V. **89g:62009**
- **Interface** ★ Computer science and statistics. **89c:62004**

Versailles ★ Data analysis and informatics. V. **89g:62009**

Workshop:
- **Geometrization of Statistical Theory** ★ Geometrization of statistical theory. **89g:62010**
- **Maximum-Entropy and Bayesian Methods in Applied Statistics** ★ Maximum-entropy and Bayesian methods in science and engineering. Vol. 1. **89f:62001**
  - — ★ Maximum-entropy and Bayesian methods in science and engineering. Vol. 2. **89f:62002**

Items with secondary classifications in 62–06

(Beckmann, Martin J.) *see* **Contributions to applied mathematics and statistics, 89i:00018**

(Bokuchava, I. V.) *see* **School-Colloquium: Probability Theory and Mathematical Statistics, 89b:60007** *and* **89b:60008**

(Gaede, Karl-Walter) *see* **Contributions to applied mathematics and statistics, 89i:00018**

(Gamkrelidze, R. V.) *see* **Probability theory. Mathematical statistics. Theoretical cybernetics, 89g:00011**

(Grossmann, Wilfried) *see* **Probability theory and mathematical statistics with applications, 89c:60002**

(Heinhold, Josef) *see* **Contributions to applied mathematics and statistics, 89i:00018**

(Heyde, C. C.) *see* **Australia: history of statistics, 89g:01001**
(Hoffman, Dennis) *see* **Issues in econometric forecasting, 89g:62173**
(Hüsler, Jürg) *see* **Extreme value theory, 89j:60002**
(Ivchenko, G. I.) *see* **Probabilistic problems in discrete mathematics, 89j:60003**
(Kinkladze, G. N.) *see* **School-Colloquium: Probability Theory and Mathematical Statistics, 89c:60004**
(Korolyuk, V. S.) *see* **Asymptotic methods in the investigation of stochastic models, 89b:60003**
(Marr, G. I.) *see* **School-Colloquium: Probability Theory and Mathematical Statistics, 89b:60007**
(Mogyoródi, J.) *see* **Probability theory and mathematical statistics with applications, 89c:60002**
(Prokhorov, Yu. V.) *see* **Congress: Bernoulli Society for Mathematical Statistics and Probability Theory, 89b:60005** *and* **Probability theory and mathematical statistics, 89c:60003**
(Reiss, R.-D.) *see* **Extreme value theory, 89j:60002**
(Ritter, Klaus) *see* **Contributions to applied mathematics and statistics, 89i:00018**
(Schmidt, Peter Joseph) *see* **Issues in econometric forecasting, 89g:62173**
(Seneta, E.) *see* **Australia: history of statistics, 89g:01001**
(Shervashidze, T. L.) *see* **School-Colloquium: Probability Theory and Mathematical Statistics, 89b:60007** *and* **89b:60008**
(Sirazhdinov, S. Kh.) *see* **Probabilistic models and mathematical statistics, 89i:60004**
(Vincze, István) *see* **Probability theory and mathematical statistics with applications, 89c:60002**
(Watanabe, Shinzo) *see* **Probability theory and mathematical statistics, 89c:60003**
(Wertz, Wolfgang) *see* **Probability theory and mathematical statistics with applications, 89c:60002**

Items listed otherwise than by author

Asymptotic methods in the investigation of stochastic models ★ Асимптотические методы в исследовании стохастических моделей. (Russian) [Asymptotic methods in the investigation of stochastic models] **89b:60003**
Australia: history of statistics ★ Bicentennial history issue. **89g:01001**
Bakuriani ★ XVIII Школа-Коллоквиум по Теории Вероятностей и Математической Статистике. (Russian) [XVIIIth School-Colloquium on Probability Theory and Mathematical Statistics] **89b:60007**
— ★ XIX Школа-Коллоквиум по Теории Вероятностей и Математической Статистике. (Russian) [XIXth School-Colloquium on Probability Theory and Mathematical Statistics] **89b:60008**
— ★ XXI Школа-Коллоквиум по Теории Вероятностей и Математической Статистике. (Russian) [XXIst School-Colloquium on Probability Theory and Mathematical Statistics] **89c:60004**
Beiträge zur Angewandten Mathematik und Statistik ★ Beiträge zur Angewandten Mathematik und Statistik. (German) [Contributions to applied mathematics and statistics] **89i:00018**
Birthday:
  Heinhold, Josef ★ Beiträge zur Angewandten Mathematik und Statistik. (German) [Contributions to applied mathematics and statistics] **89i:00018**
Conference:
  Extreme Value Theory ★ Extreme value theory. **89j:60002**
  Issues in Econometric Forecasting ★ Issues in econometric forecasting. **89g:62173**
Congress:
  Bernoulli Society for Mathematical Statistics and Probability Theory ★ Первый Всемирный Конгресс Общества Математической Статистики и Теории Вероятностей им. Бернулли. Том II. (Russian) [First World Congress of the Bernoulli Society for Mathematical Statistics and Probability Theory. Vol. II] **89b:60005**
Contributions to applied mathematics and statistics ★ Beiträge zur Angewandten Mathematik und Statistik. (German) [Contributions to applied mathematics and statistics] **89i:00018**
Extreme value theory ★ Extreme value theory. **89j:60002**
Issues in econometric forecasting ★ Issues in econometric forecasting. **89g:62173**
Itogi Nauki i Tekhniki ★ Теория вероятностей. Математическая статистика. Теоретическая кибернетика. Том 26. (Russian) [Probability theory. Mathematical statistics. Theoretical cybernetics. Vol. 26] **89g:00011**
Kyoto ★ Probability theory and mathematical statistics. **89c:60003**
Lecture Notes in Mathematics ★ Probability theory and mathematical statistics. **89c:60003**
Lecture Notes in Statistics ★ Extreme value theory. **89j:60002**
Oberwolfach ★ Extreme value theory. **89j:60002**
Probabilistic models and mathematical statistics ★ Вероятностные модели и математическая статистика. (Russian) [Probabilistic models and mathematical statistics] **89i:60004**
Probabilistic problems in discrete mathematics ★ Вероятностные задачи дискретной математики. (Russian) [Probabilistic problems in discrete mathematics] **89j:60003**
Probability theory and mathematical statistics ★ Probability theory and mathematical statistics. **89c:60003**
Probability theory and mathematical statistics with applications ★ Probability theory and mathematical statistics with applications. **89c:60002**
Probability theory. Mathematical statistics. Theoretical cybernetics ★ Теория вероятностей. Математическая статистика. Теоретическая кибернетика. Том 26. (Russian) [Probability theory. Mathematical statistics. Theoretical cybernetics. Vol. 26] **89g:00011**
Proceedings:
  Seminar on Stochastic Process, Statistical Inference and Sample Survey ★ Proceedings of the National Seminar on Stochastic Process, Statistical Inference and Sample Survey. **89a:60006**
  — ★ Proceedings of the National Seminar on Stochastic Process, Statistical Inference and Sample Survey. **89a:60005**
Sambalpur ★ Proceedings of the National Seminar on Stochastic Process, Statistical Inference and Sample Survey. **89a:60006**
— ★ Proceedings of the National Seminar on Stochastic Process, Statistical Inference and Sample Survey. **89a:60005**
School-Colloquium:
  Probability Theory and Mathematical Statistics ★ XVIII Школа-Коллоквиум по Теории Вероятностей и Математической Статистике. (Russian) [XVIIIth School-Colloquium on Probability Theory and Mathematical Statistics] **89b:60007**
  — ★ XIX Школа-Коллоквиум по Теории Вероятностей и Математической Статистике. (Russian) [XIXth School-Colloquium on Probability Theory and Mathematical Statistics] **89b:60008**
  — ★ XXI Школа-Коллоквиум по Теории Вероятностей и Математической Статистике. (Russian) [XXIst School-Colloquium on Probability Theory and Mathematical Statistics] **89c:60004**
Seminar:
  Stochastic Process, Statistical Inference and Sample Survey ★ Proceedings of the National Seminar on Stochastic Process, Statistical Inference and Sample Survey. **89a:60006**
  — ★ Proceedings of the National Seminar on Stochastic Process, Statistical Inference and Sample Survey. **89a:60005**
Special issue:
  Australia: history of statistics ★ Bicentennial history issue. **89g:01001**
Symposium:
  Mathematical Statistics ★ Probability theory and mathematical statistics with applications. **89c:60002**
  Probability Theory ★ Probability theory and mathematical statistics. **89c:60003**
Tashkent ★ Первый Всемирный Конгресс Общества Математической Статистики и Теории Вероятностей им. Бернулли. Том II. (Russian) [First World Congress of the Bernoulli Society for Mathematical Statistics and Probability Theory. Vol. II] **89b:60005**
Tempe, AZ ★ Issues in econometric forecasting. **89g:62173**
Visegrád ★ Probability theory and mathematical statistics with applications. **89c:60002**

62–07 Data analysis

Bandemer, Hans (*with* Kudra, Matthias) Some methods of evaluating functional relationships from fuzzy observations. (German and Russian summaries) **89e:62003**
— (*with* Näther, Wolfgang) Fuzzy analogues to partial-least-squares techniques in multivariate data analysis. (German and Russian summaries) (*see* **89b:62006**)
— (*with* Näther, Wolfgang) Fuzzy projection pursuits. **89i:62005**
Dai, Bo Xin Assessment of influence and diagnosis of data. (Chinese) (Not in MR)
Efron, Bradley Three examples of computer-intensive statistical inference. **89k:62003**
Flôres, R. G., Jr. Classical approaches to cubic tables. (Not in MR)
Guénoche, A. (*with* Monjardet, B.) Méthodes ordinales et combinatoires en analyse des données. (English summary) [Ordinal and combinatorial methods in data analysis] (Not in MR)
Kudra, Matthias *see* **Bandemer, Hans, 89e:62003**
Monjardet, B. *see* **Guénoche, A.,** (Not in MR)
Näther, Wolfgang *see* **Bandemer, Hans, 89i:62005** *and* (**89b:62006**)

Items with secondary classifications in 62–07

Aygalinc, P. *see* **Barboucha, M.; et al.,** (**89g:62009**)
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62A20 The classical approach

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62B05 Sufficient statistics and fields

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62B15 Comparison of experiments

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62B20 Measure-theoretic results, etc.

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62Cxx Decision theory [see also 90A05; for game theory, see 90Dxx]

62C05 General considerations

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Smith, J. Q. ★ Decision analysis: a Bayesian approach. **89e:90008**

62C07 Complete class results

Brown, Lawrence D. (*with* Farrell, R. H.) Proof of a necessary and sufficient condition for admissibility in discrete multivariate problems. **89f:62003**
Farrell, R. H. *see* **Brown, Lawrence D., 89f:62003**
Stępniak, C. A complete class for linear estimation in a general linear model. **89e:62009**

Items with secondary classifications in 62C07

Berry, J. Calvin Equivariant estimation of a normal mean using a normal concomitant variable for covariance adjustment. (French summary) **89a:62066**
Brown, Lawrence D. The differential inequality of a statistical estimation problem. **89d:62010**
Padmawar, V. R. On the completeness of certain classes of two-stage sampling strategies. **89c:62025**

62C10 Bayesian problems; characterization of Bayes procedures

Bernardo, Jose-M. Approximations in statistics from a decision-theoretical viewpoint. **89c:62015**
— Bayesian linear probabilistic classification. **89a:62023**
Cheng, Yizong (*with* Kashyap, R. L.) Comparison of Bayesian and Dempster's rules in evidence combination. (*see* **89f:62002**)
Cohen, Arthur (*with* Sackrowitz, H. B.) An approach to inference following model selection with applications to transformation-based and adaptive inference. **89a:62024**
DasGupta, Anirban (*with* Rubin, Herman) Bayesian estimation subject to minimaxity of the mean of a multivariate normal distribution in the case of a common unknown variance: a case for Bayesian robustness. **89b:62017**
Garrido, J. M. A. *see* **Gil, María Angeles; et al., 89a:62025**
Gil, María Angeles (*with* Garrido, J. M. A.; Gil Álvarez, Pedro Ángel) On a principle of choice among Bayes actions and its application for comparing experiments. (French summary) **89a:62025**
— Bayesian decision making with previous probabilistic uncertainty and actual fuzzy imprecision. **89i:62014**
Gil Álvarez, Pedro Ángel *see* **Gil, María Angeles; et al., 89a:62025**
Gilliland, Dennis C. (*with* Karunamuni, Rohana J.) On empirical Bayes with sequential component. **89i:62015**
Kadane, Joseph B. (*with* Trader, Ramona L.) A Bayesian treatment of multivariate normal data with observations missing at random. **89a:62026**
Karunamuni, Rohana J. *see* **Gilliland, Dennis C., 89i:62015**
Kashyap, R. L. *see* **Cheng, Yizong, (89f:62002)**
Kempthorne, Peter J. Controlling risks under different loss functions: the compromise decision problem. **89i:62016**
Kim, Byung Hwee Admissibility of some stepwise Bayes estimators. **89h:62005**
Ol'man, V. Preservation of the Bayes property with respect to discrete measures under transformations. (Russian. English and Estonian summaries) **89b:62018**
Rubin, Herman *see* **DasGupta, Anirban, 89b:62017**
Rukhin, Andrew L. Loss functions for loss estimation. **89i:62017**
— Estimating the loss of estimators of a binomial parameter. **89g:62012**
Sackrowitz, H. B. *see* **Cohen, Arthur, 89a:62024**
Trader, Ramona L. *see* **Kadane, Joseph B., 89a:62026**

Items with secondary classifications in 62C10

Chen, Wen Chen (*with* DeGroot, Morris H.) Optimal search for new types. **89e:62109**
da Costa Werlang, Sérgio Ribeiro *see* **Tan, Tommy Chin-Chiu, 89j:90288**
Cyert, Richard M. (*with* DeGroot, Morris H.) ★ Bayesian analysis and uncertainty in economic theory. **89a:90003**
DeGroot, Morris H. *see* **Cyert, Richard M., 89a:90003** *and* **Chen, Wen Chen, 89e:62109**
Diaconis, P. Bayesian numerical analysis. **89c:65032**
Feldman, Mark Bayesian learning and convergence to rational expectations. **89b:90045**
Gajek, Lesław Generalized Bayes estimators of a nonlinear function of the natural parameter of an exponential family of distributions. **89i:62047**
Ghosh, Malay (*with* Yang, Ming Chung) Simultaneous estimation of Poisson means under entropy loss. **89b:62020**
Grandy, Walter T., Jr. ★ Foundations of statistical mechanics. Vol. I. **89j:82089**
— ★ Foundations of statistical mechanics. Vol. II. **89j:82090**
Gupta, Shanti S. (*with* Liang, TaChen) On some Bayes and empirical Bayes selection procedures. **89g:62036**
Heyer, Herbert Bayesian aspects in the theory of comparison of statistical experiments. **89a:62019**
Ivanenko, V. I. Information problems in control theory. (Russian. English summary) **89d:90154**
Jeffrey, Richard Biting the Bayesian bullet: Zeckhauser's problem. **89h:90282**
Jones, Peter Watts (*with* Madhi, S. A.) Bayesian minimum sample size designs for the Bernoulli selection problem. **89e:62105**
Kadane, Joseph B. Parallel and sequential computation: a statistician's view. **89b:65331**
Kempthorne, Peter J. Dominating inadmissible procedures using compromise decision theory. **89b:62021**
Khan, M. K. Optimal Bayesian estimation of the median effective dose. **89e:62138**
Kubokawa, Tatsuya Inadmissibility of truncated estimators in balanced incomplete block designs. **89k:62099**
Liang, TaChen *see* **Gupta, Shanti S., 89g:62036**
Madhi, S. A. *see* **Jones, Peter Watts, 89e:62105**
Naylor, J. C. (*with* Smith, Adrian F. M.) Econometric illustrations of novel numerical integration strategies for Bayesian inference. **89c:62193**
Parsian, Ahmad On the admissibility of estimators of the zero class in Poisson populations. **89c:62018**
Petkau, A. John Truncated sequential medical trials involving paired data. (French summary) **89b:62170**
Scarsini, M. On a simple sequential decision problem. **89j:90267**
Smith, Adrian F. M. *see* **Naylor, J. C., 89c:62193**
Smith, J. Q. ★ Decision analysis: a Bayesian approach. **89e:90008**
Tan, Tommy Chin-Chiu (*with* da Costa Werlang, Sérgio Ribeiro) The Baycsian foundations of solution concepts of games. **89j:90288**
Tiwari, Ram C. Convergence of Dirichlet invariant measures and the limits of Bayes estimates. **89g:62066**
Trybuła, Stanisław Estimation of the same parameters under different data. **89g:62015**
Yang, Ming Chung *see* **Ghosh, Malay, 89b:62020**
Young, A. S. On a Bayesian criterion for choosing predictive submodels in linear regression. **89a:62153**

62C12 Empirical decision procedures

Cressie, Noel The underlying structure of empirical Bayes methods. **89k:62007**
Edelman, David Estimation of the mixing distribution for a normal mean with applications to the compound decision problem. **89k:62008**
Gupta, Shanti S. (*with* Liang, TaChen) Empirical Bayes rules for selecting the best binomial population. **89e:62010**
Khatri, C. G. Estimation of the location parameters. **89e:62011**
Liang, TaChen *see* **Gupta, Shanti S., 89e:62010**
Morris, Carl Determining the accuracy of Bayesian empirical Bayes estimates in the familiar exponential families. **89a:62027**
Nogami, Yoshiko Convergence rates for empirical Bayes estimation in the uniform $U(0,\theta)$ distribution. **89h:62006**
Pepple, Patricia A. Simultaneous estimation of exponential means using Bayesian methods. **89c:62016**
Savchuk, V. P. Empirical Bayesian estimates for the probability of failure-free operation under conditions of data accumulation. **89d:62009**
Wăng, Yong Cheng Convergence rates of empirical Bayes estimates in families of one-sided truncated distributions. (Chinese) **89a:62028**

Items with secondary classifications in 62C12

Ghosh, Malay (*with* Lahiri, Parthasarathi) Bayes and empirical Bayes analysis in multistage sampling. **89b:62024**
Gilliland, Dennis C. (*with* Karunamuni, Rohana J.) On empirical Bayes with sequential component. **89i:62015**
Gupta, Shanti S. (*with* Liang, TaChen) On some Bayes and empirical Bayes selection procedures. **89g:62036**
Karunamuni, Rohana J. On empirical Bayes testing with sequential components. **89i:62129**
— *see also* **Gilliland, Dennis C., 89i:62015**
Lahiri, Parthasarathi *see* **Ghosh, Malay, 89b:62024**
Liang, TaChen *see* **Gupta, Shanti S., 89g:62036**
Robbins, Herbert The U, V method of estimation. **89a:62070**
Smith, Philip L. (*with* Vickers, Douglas) The accumulator model of two-choice discrimination. **89h:92072**
Vickers, Douglas *see* **Smith, Philip L., 89h:92072**

62C15 Admissibility

Bernshtein, A. V. Absolutely admissible tests in the presence of nuisance parameters. **89j:62010**
Brown, Lawrence D. The differential inequality of a statistical estimation problem. **89d:62010**
Dey, Dipak K. *see* **Gelfand, Alan E., 89f:62004**
Fan, Jian Qing (*with* Fang, Kai Tai) Inadmissibility of usual estimators of location parameters of spherically symmetric distributions. (Chinese) (Not in MR)
Fang, Kai Tai *see* **Fan, Jian Qing**, (Not in MR)
Fraisse, Anne-Marie (*with* Robert, Christian; Roy, Madeleine) Une condition nécessaire d'admissibilité pour les familles exponentielles et ses conséquences sur les estimateurs à rétrécisseur matriciel. (English summary) [A necessary condition of admissibility in exponential families and its consequences upon the matricial shrinkage estimator] **89b:62019**
Gelfand, Alan E. (*with* Dey, Dipak K.) On the estimation of a variance ratio. **89f:62004**
Ghosh, Malay (*with* Yang, Ming Chung) Simultaneous estimation of Poisson means under entropy loss. **89b:62020**
— *see also* **Sinha, Bimal Kumar, 89e:62013**
Johnstone, Iain On inadmissibility of some unbiased estimates of loss. **89c:62017**

Kempthorne, Peter J. Dominating inadmissible procedures using compromise decision theory. **89b:62021**
Lu, Chang Yu *see* **Zhu, Xian Hai, 89a:62030**
Mandelbaum, Avi (*with* Shepp, L. A.) Admissibility as a touchstone. **89a:62029**
Meister, H. (*with* Moeschlin, O.) Unbiased set-valued estimators with minimal risk. **89h:62007**
Moeschlin, O. *see* **Meister, H., 89h:62007**
Ohtani, Kazuhiro Inadmissibility of the iterative Stein-rule estimator of the disturbance variance in a linear regression. **89e:62012**
Parsian, Ahmad On the admissibility of estimators of the zero class in Poisson populations. **89c:62018**
Puri, Madan L. (*with* Ralescu, Stefan S.) On admissible estimation in exponential families with imprecise information. **89c:62019**
Ralescu, Stefan S. *see* **Puri, Madan L., 89c:62019**
Robert, Christian *see* **Fraisse, Anne-Marie; et al., 89b:62019**
Rojo, Javier On the admissibility of $c\overline{X} + d$ with respect to the LINEX loss function. **89c:62020**
Roy, Madeleine *see* **Fraisse, Anne-Marie; et al., 89b:62019**
Rukhin, Andrew L. Estimating quadratic polynomials with applications to square root normalizing transformations. **89b:62022**
— Estimated loss and admissible loss estimators. **89g:62013**
Shepp, L. A. *see* **Mandelbaum, Avi, 89a:62029**
Sinha, Bimal Kumar (*with* Ghosh, Malay) Inadmissibility of the best equivariant estimators of the variance-covariance matrix, the precision matrix, and the generalized variance under entropy loss. **89e:62013**
Sobel, Marc J. Further paradoxes in admissibility. II. **89b:62023**
Yang, Ming Chung *see* **Ghosh, Malay, 89b:62020**
Zhu, Xian Hai (*with* Lu, Chang Yu) Admissibility of linear estimates of parameters in a linear model. (Chinese) **89a:62030**

Items with secondary classifications in 62C15

Akai, Toyoaki Further generalization of Stein estimators. **89f:62049**
Al-Rawwash, Hussein (*with* Marden, John I.) Dominating inadmissible tests in exponential family models. **89h:62035**
Bock, M. E. Shrinkage estimators: pseudo-Bayes rules for normal mean vectors. **89b:62106**
Chen, Keh-Wei (*with* Zheng, Zhong Guo) Admissible minimax model selection rule. **89a:62052**
Choe, Sang Hyon On admissible estimation in a semiorthogonal linear model. (Korean. English summary) **89c:62106**
— On admissibility of linear estimators for a linear function of parameters. (Korean. English summary) **89c:62107**
Cline, Daren B. H. Admissible kernel estimators of a multivariate density. **89k:62053**
Dong, Li Ming (*with* Wu, Qi Guang) Necessary and sufficient conditions for linear estimators of stochastic regression coefficients and parameters to be admissible under quadratic loss. (Chinese) **89g:62101**
Drygas, Hilmar *see* **Zmyślony, Roman, 89j:62094**
Friedman, Yaakov (*with* Gelman, Alexander; Phadia, Eswar) Best invariant estimation of a distribution function under the Kolmogorov-Smirnov loss function. **89i:62060**
Gajek, Lesław On the minimax value in the scale model with truncated data. **89g:62014**
Gelman, Alexander *see* **Friedman, Yaakov; et al., 89i:62060**
Hara, Takahiko Detection of multivariate outliers with location slippage or scale inflation in left orthogonally invariant or elliptically contoured distributions. **89g:62079**
Jaura, J. *see* **Tempel′man, A. A., 89k:62057**
Joshi, V. M. Admissibility of the best invariant estimator of a location parameter. **89b:62071**
Kim, Byung Hwee Admissibility of some stepwise Bayes estimators. **89h:62005**
Klonecki, W. (*with* Zontek, S.) On the structure of admissible linear estimators. **89h:62107**
Kubokawa, Tatsuya Monotonicity of risk for a shrinkage estimator of a multivariate normal mean. **89d:62045**
Magiera, Ryszard Admissible sequential polynomial estimators for stochastic processes. **89a:62182**
Marden, John I. *see* **Al-Rawwash, Hussein, 89h:62035**
Pantula, Sastry G. *see* **Sinha, Bikas K., 89a:62035**
Phadia, Eswar *see* **Friedman, Yaakov; et al., 89i:62060**
Rukhin, Andrew L. Estimating a linear function of the normal mean and variance. **89a:62071**
— Loss functions for loss estimation. **89i:62017**
— Improved estimation in lognormal regression models. **89a:62166**
Saleh, A. K. Md. Ehsanes (*with* Sen, Pranab Kumar) Shrinkage least squares estimation in a general multivariate linear model. **89i:62087**
Sen, Pranab Kumar *see* **Saleh, A. K. Md. Ehsanes, 89i:62087**
Sinha, Bikas K. (*with* Pantula, Sastry G.) Linear invariance and admissibility in sampling finite populations. **89a:62035**
Sun, Ping The nonnegative optimality of linear models. (Chinese. English summary) **89f:62059**
Tempel′man, A. A. (*with* Jaura, J.) Admissibility of a nonparametric analogue of the Pitman estimator in the case of one unknown parameter. **89k:62057**
Wang, Jing Long Admissibility of invariant quadratic estimates in a variance-components model. (Chinese) **89m:62073**
Wu, Qi Guang Several results on admissibility of a linear estimate of stochastic regression coefficients and parameters. (Chinese. English summary) **89j:62093**
— Admissibility of linear estimates of stochastic regression coefficients and parameters under matrix loss. (Chinese. English summary) **89g:62112**
— *see also* **Dong, Li Ming, 89g:62101**
Ye, Ci Nan Admissibility of simultaneous estimators of two variance components. (Chinese. English summary) **89e:62091**
Zheng, Zhong Guo *see* **Chen, Keh-Wei, 89a:62052**
Zmyślony, Roman (*with* Drygas, Hilmar) On admissible estimation for parametric functions in linear models. **89j:62094**
Zontek, S. On characterization of linear admissible estimators: an extension of a result due to C. R. Rao. **89e:62061**
— *see also* **Klonecki, W., 89h:62107**

62C20 Minimax procedures

Berger, J. O. (*with* Chen, Shun Yu) Minimaxity of empirical Bayes estimators derived from subjective hyperpriors. **89a:62031**
Chen, Lan Xiang (*with* Eichenauer, Jürgen) Two point priors and Γ-minimax estimating in families of uniform distributions. **89j:62011**
Chen, Shun Yu *see* **Berger, J. O., 89a:62031**
Dodunekova, Rositsa On the estimation of a linear functional from indirect observations. (Russian. English summary) (*see* **89c:00038**)
Eichenauer, Jürgen *see* **Chen, Lan Xiang, 89j:62011**
Gajek, Lesław On the minimax value in the scale model with truncated data. **89g:62014**
Sapozhnikov, P. N. Nearly minimax tests in the case of a finite number of hypotheses. **89j:62012**
Trybuła, Stanisław Minimax estimation for the mean of the sum of processes. **89a:62032**
— Estimation of the same parameters under different data. **89g:62015**

Items with secondary classifications in 62C20

Alson, P. Minimax properties for linear estimators of the location parameter of a linear model. **89d:62054**
Apoyan, G. T. (*with* Kutoyants, Yu. A.) On compensator estimation of inhomogeneous Poisson process. (Russian summary) **89g:62144**
Chou, Chin Fêng Estimation of means of multivariate normal mixtures. **89h:62088**
Dodunekova, Rositsa Extremal properties of a linear minimax estimate in a stochastic model. (Russian) **89d:62086**
Ermakov, M. S. Asymptotically minimax criteria for testing nonparametric hypotheses on the density of a distribution. (Russian. English summary) **89k:62061**
Fabian, Václav The local asymptotic minimax adaptive property of a recursive estimate. **89i:62136**
Gabler, S. A conditional minimax approach in survey sampling. **89i:62018**
Giri, N. C. On a locally best invariant and locally minimax test in symmetrical multivariate distributions. **89a:62130**
Gleser, Leon Jay New estimators for the mean vector of a normal distribution with unknown covariance matrix. **89b:62109**
Gusak, P. P. (*with* Sorkin, L. R.) Minimax function approximation by noisy observations under nonparametric uncertainty. (Russian summary) **89e:93207**
Kempthorne, Peter J. Controlling risks under different loss functions: the compromise decision problem. **89i:62016**
Kutoyants, Yu. A. *see* **Apoyan, G. T., 89g:62144**
Liang, TaChen (*with* Panchapakesan, S.) Inference about the change-point in a sequence of random variables: a selection approach. **89b:62063**
Ouyang, Liang Yuh An optimal choice of components for parallel systems. **89h:62160**
Panchapakesan, S. *see* **Liang, TaChen, 89b:62063**
Różański, Roman Minimax sequential estimation in random fields application to the Ornstein-Uhlenbeck case. **89a:62183**
Rukhin, Andrew L. Estimating a linear function of the normal mean and variance. **89a:62071**
Schipp, B. (*with* Trenkler, G.; Stahlecker, P.) Minimax estimation with additional linear restrictions. A simulation study. **89e:62083**
Sorkin, L. R. *see* **Gusak, P. P., 89e:93207**
Spokoĭnyi, V. G. Design of regression experiments with dependent errors. **89d:62070**
Stahlecker, P. ★ A priori Information und Minimax-Schätzung im linearen Regressionsmodell. (German) [A priori information and minimax estimation in the linear regression model] **89g:62171**
— *see also* **Schipp, B.; et al., 89e:62083**
Trenkler, G. *see* **Schipp, B.; et al., 89e:62083**
Víšek, Jan Ámos Efficiency rate and local deficiency of the most powerful tests in the model of contaminacy with general neighbourhoods. **89a:62054**

62C25 Compound decision problems

Items with secondary classifications in 62C25

Edelman, David Estimation of the mixing distribution for a normal mean with applications to the compound decision problem. **89k:62008**

62C99 None of the above, but in this section

Items with secondary classifications in 62C99

Becker, Joao L. (*with* Sarin, Rakesh K.) Lottery dependent utility. **89a:90027**
Bonanno, Giacomo Can good news lead to a more pessimistic choice of action? **89k:90017**
Dieks, D. Overlap and distinguishability of quantum states. **89d:81016**
Hwang, F. K. (*with* Xu, Yong Hua^2) Group testing to identify one defective and one mediocre item. **89c:90063**
Krishna, G. *see* **Shekar, B.; et al., 89m:68127**
Lee, Youngjo The exact mean squared error risks of preliminary test type estimators for the multivariate normal mean. **89b:62115**
Narasimha Murty, M. *see* **Shekar, B.; et al., 89m:68127**
Sarin, Rakesh K. *see* **Becker, Joao L., 89a:90027**
Shekar, B. (*with* Narasimha Murty, M.; Krishna, G.) Structural aspects of semantic-directed clusters. **89m:68127**
Tan, Choon Peng Conditions for consensus using spectral decomposition. **89j:90014**
Vinci, Thomas C. Objective chance, indicative conditionals and decision theory; or, how you can be smart, rich and keep on smoking. **89b:03042**
Xu, Yong Hua^2 *see* **Hwang, F. K., 89c:90063**

62D05 Sampling theory, sample surveys

Adhikary, Arun Kumar (*with* Chaudhuri, Arijit; Vijayan, Kaipillil) Optimum sampling strategies for randomized response trials. (French summary) **89h:62008**

Agrawal, M. C. (*with* Jain, Nirmal) Predictive estimation in double sampling procedures. (Not in MR)

Ahuja, D. L. *see* **Kumar, Pranesh**, (Not in MR)

Allende Alonso, Sira M. (*with* Bouza Herrera, Carlos N.) Optimization criteria for multivariate strata construction. (*see* **89k:41001**)

Arnab, R. Variance estimation in multi-stage sampling. (Not in MR)

— On a use of stratified sampling in optimal estimation. **89k:62009**

Baldessari, Bruno Intrinsic inference model for finite populations of dependent random vectors. (Italian summary) **89d:62011**

Bellhouse, D. R. Model-based estimation in finite population sampling. **89a:62033**

Bentler, P. M. *see* **Bonett, Douglas G.; et al., 89h:62009**

Bhandari, Subir Kumar On a conjecture of Karlin in sampling theory. **89b:62032**

Binder, David A. *see* **Thomsen, Ib; et al., 89h:62022**

Bolfarine, Heleno (*with* Pereira, C. A. de B.; Rodrigues, Josemar) Robust linear prediction in finite populations: a Bayesian perspective. **89c:62021**

— Finite population prediction under dynamic generalized linear models. **89j:62013**

— *see also* **Leite, José Galvão; et al., 89b:62026**; **Rodrigues, Josemar; et al., 89h:62020** *and* (Not in MR)

Bonett, Douglas G. (*with* Woodward, J. Arthur; Bentler, P. M.) A linear model for estimating the size of a closed population. **89h:62009**

Bouza Herrera, Carlos N. *see* **Allende Alonso, Sira M.**, (**89k:41001**)

Bowden, R. J. Repeated sampling in the presence of publication effects. **89c:62022**

(Cahoon, Lawrence S.) *see* **Bowden, R. J., 89c:62022**

Casady, Robert J. (*with* Nathan, Gad; Sirken, Monroe G.) Alternative dual system network estimators. (French summary) **89h:62010**

Caso, C. *see* **Gil, María Angeles, 89b:62025**

Chambers, R. L. Design-adjusted regression with selectivity bias. (Not in MR)

Chaudhuri, Arijit (*with* Vos, J. W. E.) ★ Unified theory and strategies of survey sampling. **89g:62016**

— *see also* **Adhikary, Arun Kumar; et al., 89h:62008**

Chhikara, Raj S. (*with* Deng, Lih-Yuan) Conditional inference in finite population sampling under a calibration model. (Not in MR)

Cumberland, W. G. (*with* Royall, R. M.) Does simple random sampling provide adequate balance? **89e:62014**

Darroch, J. N. (*with* Jiřina, Miloslav; Speed, T. P.) Sampling without replacement: approximation to the probability distribution. **89c:62023**

Deng, Lih-Yuan *see* **Chhikara, Raj S.**, (Not in MR)

(Deville, J.-C.) *see* **Grosbras, Jean-Marie, 89c:62024**

Fernández, Manuel J. *see* **Gil, María Angeles; et al., 89j:62014**

Fienberg, Stephen E. (*with* Tanur, Judith M.) From the inside out and the outside in: combining experimental and sampling structures. (French summary) (Not in MR)

Gabler, S. A conditional minimax approach in survey sampling. **89i:62018**

Ghosh, Malay (*with* Lahiri, Parthasarathi) Robust empirical Bayes estimation of variances from stratified samples. **89h:62011**

— (*with* Lahiri, Parthasarathi) Bayes and empirical Bayes analysis in multistage sampling. **89b:62024**

Ghosh, Subir (*with* Gomez, Roberto) Comparison of ratio estimators based on interpenetrating subsamples with or without jackknifing. **89h:62012**

Gil, María Angeles (*with* Caso, C.) A note on the estimation of the mutual information in the stratified sampling. (Italian summary) **89b:62025**

— (*with* Fernández, Manuel J.; Martínez, I.) The choice of sample size in estimating mutual information. **89j:62014**

Godambe, V. P. (*with* Thompson, M. E.) Parameters of superpopulation and survey population: their relationships and estimation. (French summary) **89m:62006**

Gomez, Roberto *see* **Ghosh, Subir, 89h:62012**

Grosbras, Jean-Marie ★ Méthodes statistiques des sondages. (French) [Statistical sampling methods] **89c:62024**

Gupta, Pratap Chandra *see* **Yogi, A. K., 89m:62011** *and* **Kothwala, N. H.**, (Not in MR)

Hansen, Morris H. Some history and reminiscences on survey sampling. **89b:62029b**

— *see also* **Olkin, Ingram, 89b:62029a**

Hapuarachchi, K. P. Sampling errors of analytic statistics: an empirical investigation. **89g:62017**

Huang, Elizabeth T. (*with* Isaki, Cary T.) Variance estimation using auxiliary information under a one unit per stratum sample design—a Monte Carlo study. (Not in MR)

Iachan, Ronaldo Sampling strategies, robustness and efficiency: the state of the art. (French summary) **89h:62013**

Ige, Abel F. (*with* Tripathi, T. P.) On double sampling for stratification and use of auxiliary information. (Hindi summary) (Not in MR)

Isaki, Cary T. *see* **Huang, Elizabeth T.**, (Not in MR)

Jagers, Peter (*with* Odén, A.; Trulsson, L.) Post-stratification and ratio estimation: usages of auxiliary information in survey sampling and opinion polls. (French summary) **89h:62014**

— Post-stratification against bias in sampling. (French summary) **89h:62015**

Jain, Nirmal *see* **Agrawal, M. C.**, (Not in MR)

Jain, Rajendra Kumar³ Properties of estimators in simple random sampling using auxiliary variable. (Italian summary) (Not in MR)

Jhajj, H. S. *see* **Srivastava, Surendra K.**, (Not in MR) *and* (Not in MR)

Jiřina, Miloslav *see* **Darroch, J. N.; et al., 89c:62023**

Joshi, V. M. Randomization versus the prediction approach in survey sampling. **89j:62015**

Khare, B. B. Allocation in stratified sampling in presence of nonresponse. (Italian summary) (Not in MR)

Kothwala, N. H. (*with* Gupta, Pratap Chandra) A study of second order approximation of some ratio type strategies. (Not in MR)

Krishnamoorthy, K. (*with* Mitra, Sujit Kumar) Cost robustness of an algorithm for optimal integration of surveys. **89a:62034**

Kuk, Anthony Y. C. Estimation of distribution functions and medians under sampling with unequal probabilities. (Not in MR)

Kumar, Pranesh (*with* Ahuja, D. L.) On estimating regression coefficient unbiasedly. (Not in MR)

Kushwaha, K. S. *see* **Singh, Housila Prasad, 89c:62027**

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Thompson, M. E. *see* **Godambe, V. P., 89m:62006** *and* **Adhikary, Arun Kumar; et al., 89h:62008**
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Trulsson, L. *see* **Jagers, Peter; et al., 89h:62014**
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Vijayan, Kaipillil *see* **Adhikary, Arun Kumar; et al., 89h:62008**
Vos, J. W. E. *see* **Chaudhuri, Arijit, 89g:62016**
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62Exx Distribution theory [see also 60Exx]

62E10 Characterization and structure theory

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Seshadri, Vanamamalai *see* **Ramachandran, B., 89a:62038** *and* **Letac, G., 89b:62036**
Shaked, M. *see* **Scarsini, M., 89a:62039**
Shukurlaeva, Sh. Kh. *see* **Volodin, N. A.; et al., 89h:62029**
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Hannan, James *see* **Nogami, Yoshiko, 89e:60031**
Hu, Yi Min *see* **Cheng, Kan, 89d:60031**
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Pearl, Dennis K. *see* **Fairley, David; et al., 89b:62132**
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Plachky, D. *see* **Bach, Alexander; et al., 89g:60128**
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Rao, Calyampuli Radhakrishna *see* **Alzaid, A.; et al., 89b:60161**
Rinott, Yosef *see* **Brown, Lawrence D., 89e:60035**
Robertson, Christopher A. *see* **Arnold, Barry C.; et al., 89h:62030**
Sato, Ken-iti Modes and moments of unimodal distributions. **89b:60039**
Shanbhag, D. N. *see* **Alzaid, A.; et al., 89b:60161**
(Shimizu, Kunio) *see* **Lognormal distributions, 89b:62001**
Shoukri, M. M. *see* **Consul, P. C., 89g:92037**
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Vincze, István On a probabilistic characterization theorem. **89i:60033**
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62E15 Exact distribution theory

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Gordon, Louis I. *see* **Arratia, R., 89j:62028**
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Mudholkar, Govind S. *see* **Freimer, Marshall; et al.,** (Not in MR)
Murray, M. K. Coordinate systems and Taylor series in statistics. **89g:62026**
Nadeau, Pierre *see* **Manoukian, Edward B.,** (Not in MR)
Ojo, M. O. (*with* Adeyemi, H. O.) Error bounds for the normal and the t-approximation to the generalized logistic distribution. (French and Italian summaries) **89c:62036**
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Rahman, Mizan *see* **Hoare, M. R., 89k:62018**
Rathie, Arjun K. On compound distribution. **89j:62031**
Richards, Donald St. P. *see* **Gupta, Rameshwar D., 89g:62024**
Rivest, Louis-Paul A distribution for dependent unit vectors. **89g:62027**
Robertson, Christopher A. *see* **Arnold, Barry C.; et al., 89h:62030**
Rohatgi, Vijay K. (*with* Saleh, A. K. Md. Ehsanes) A class of distributions connected to order statistics with nonintegral sample size. **89c:62038**
Saleh, A. K. Md. Ehsanes *see* **Rohatgi, Vijay K., 89c:62038**
Seaman, John W., Jr. *see* **Young, Dean M.; et al., 89k:62021**
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Turner, Danny W. *see* **Young, Dean M.; et al., 89k:62021**
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Aki, Sigeo *see* **Hirano, Katuomi, 89c:60014**
Alsina, C. (*with* Ger, R.) On associative copulas uniformly close. **89f:39008**
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Balakrishnan, N. *see* **Malik, H. J.; et al., 89j:62070**
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Chatterjee, Aditya *see* **Mukherjee, S. P., 89m:62108**
(Crow, Edwin L.) *see* **Lognormal distributions, 89b:62001**
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Gajek, Lesław An improper Cramér-Rao lower bound. **89a:62067**
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Joag-Dev, Kumar *see* **Dharmadhikari, Sudhakar, 89k:60020**
Joe, Harry An ordering of dependence for distribution of k-tuples, with applications to lotto games. (French summary) **89c:62191**
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Wansbeek, Tom *see* **Neudecker, Heinz, 89c:62087**
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Lognormal distributions ★ Lognormal distributions. **89b:62001**

62E20 Asymptotic distribution theory

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Zolotukhina, L. A. *see* **Balitskaya, E. O.**, (Not in MR)

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Gombay, Edit *see* **Burke, Murray D., 89f:62043**

González de Garibay, V. *see* **Martín Rodríguez, F.**, (**89d:00009**)

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Horváth, Lajos *see* **Csörgő, Miklós, 89d:62033**

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Jiřina, Miloslav *see* **Darroch, J. N.; et al., 89c:62023**

Kawamura, Kazutomo The condition for an approximation of Poisson distribution to Bernoulli sums in multivariate distribution. **89m:60053**

Kesten, Harry *see* **Bendler, John T.; et al., 89m:82051**

Khashimov, Sh. A. Limit distribution of integral statistics that are connected with nonparametric estimates of a probability distribution and a regression curve. (Russian) **89h:62062**

— Limit theorems for distributions of generalized von Mises functionals. (Russian) **89k:60028**

Khmaladze, È. V. *see* **Nikabadze, A. M., 89b:62059**

Kochmala, I. V. Asymptotic estimation in the statistics of processes with a discrete component. (Russian. English and Georgian summaries) **89a:62189**

Korolyuk, V. S. (*with* Borovskikh, Yu. V.) Asymptotic theory of U-statistics. **89c:60026**

Koshevnik, Yu. A. Asymptotic distribution of nonparametric estimates of distribution functions under a symmetry condition. **89m:62039**

Krämer, Walter *see* **Ploberger, Werner, 89b:62150**

Kreiss, Jens-Peter On adaptive estimation in stationary ARMA processes. **89a:62081**

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89e:60051
Kudlaev, È. M. On conditions for the weak convergence of distributions of separable statistics. (Russian) **89a:60092**
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Kukhaleishvili, R. È. Some asymptotic properties of nonparametric estimates for a regression curve. (Russian. English and Georgian summaries) **89b:62084**
Ledwina, Teresa An expansion of the index of large deviations for linear rank statistics. **89b:62092**
Lee, Sik Yum *see* **Bentler, P. M.; et al., 89b:62136**
Letessier, J. (*with* Valent, G.) Some integral relations involving hypergeometric functions. **89b:33005**
Lin'kov, Yu. N. Characterization of types of asymptotic discernibility of families of hypotheses. (Russian) **89a:62111**
Lo, Shaw-Hwa *see* **Chao, Min Te, 89e:62044**
Lu, Xuan Almost sure convergence of conditional risk of N-N prediction for unbounded random variables. (Chinese. English summary) **89a:62085**
Martin, Michael A. *see* **Hall, Peter, 89k:62055**
Martín Rodríguez, F. (*with* González de Garibay, V.) Asymptotic and exact distributions of a fuzzy chi-squared statistic. (Spanish. English summary) (*see* **89d:00009**)
McCullagh, Peter On the asymptotic distribution of Pearson's statistic in linear exponential-family models. (French summary) **89e:62052**
Milbrodt, H. A note on Hájek's theory of rejective sampling. **89b:62027**
Mirakhmedov, Sh. A. Estimates for the rate of convergence in a central limit theorem for randomized decomposable statistics in a multinomial scheme. (Russian) **89d:60048**
— Probabilities of large deviations for randomized divisible statistics in multiple multinomial schemes. (Russian) **89g:60097**
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Mukhitdinov, A. Limit theorems for some statistics in subcritical multitype branching processes. (Russian) **89c:62142**
Neuhaus, Georg Local asymptotics for linear rank statistics with estimated score functions. **89e:62053a**
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Nikabadze, A. M. (*with* Khmaladze, È. V.) On goodness-of-fit tests for parametric hypotheses in $\mathbf{R}^m$. (Russian) **89b:62059**
Nikitin, Ya. Yu. Large deviations and asymptotic efficiency of integral statistics for a test of independence. (Russian) **89b:62093**
Nolan, Deborah (*with* Pollard, David) Functional limit theorems for U-processes. **89g:60123**
Phillips, P. C. B. Large deviation expansions in econometrics. **89b:62226**
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Ploberger, Werner (*with* Krämer, Walter) Mean adjustment and the CUSUM test for structural change. **89b:62150**
Pollard, David *see* **Nolan, Deborah, 89g:60123**
Puri, Madan L. *see* **Harel, Michel, 89d:60042** *and* **Denker, Manfred, 89e:60075**
Řehák, Jan (*with* Řeháková, Blanka) Classifications with relations. II. Asymptotic testing and estimation. **89b:62128**
Řeháková, Blanka *see* **Řehák, Jan, 89b:62128**
Rejtő, L. *see* **Ghorai, J. K., 89b:62205**
Révész, P. *see* **Deheuvels, Paul, 89a:60057**
Sakhanenko, A. I. Simple method of obtaining estimates in the invariance principle. **89d:60065**
Sarda, Pascal (*with* Vieu, Philippe) Vitesses de convergence d'estimateurs non-paramétriques d'une régression et de ses dérivées. (English summary) [Rates of convergence in nonparametric estimation of a regression and its derivatives] **89b:62087**
Schick, A. (*with* Susarla, V.) A k-sample problem with censored data. **89a:62114**
Sellke, Thomas Weak convergence of the Aalen estimator for a censored renewal process. **89g:62156**
Seneta, E. *see* **Hall, Peter, 89e:60044**
Sheahan, J. N. Robust estimation of regression and scale parameters in linear models with asymmetric error distributions. **89a:62105**
Shi, Xi Quan Bootstrapping the Hodges-Lehmann estimator. (Chinese) **89c:62051**
Shimizu, Ryoichi Error bounds for asymptotic expansion of the scale mixtures of the normal distribution. **89h:60030**
Sirazhdinov, S. Kh. (*with* Mirakhmedov, Sh. A.; Ismatullaev, Sh. A.) Probabilities of deviations for randomized decomposable statistics in a multinomial scheme. **89j:60045**
Skovgaard, Ib Saddlepoint expansions for conditional distributions. **89g:60046**
Speed, T. P. *see* **Darroch, J. N.; et al., 89c:62023**
Sun, Dong Chu A law of the iterated logarithm for nonparametric conditional density estimators. **89b:62089**
Susarla, V. *see* **Schick, A., 89a:62114**
Szabłowski, Paweł J. On distributive relations involving conditional moments and the probability distribution of the conditioning random variable. **89f:60017**
Takahashi, Rinya Some properties of multivariate extreme value distributions and multivariate tail equivalence. **89d:62041**
Takeuchi, Kei *see* **Akahira, Masafumi, 89a:62073**
Tikhov, M. S. Statistical analysis of grouped and censored observations. **89m:62043**
Timonin, V. I. On the limit distribution of a statistic of a nonparametric test. (Russian) **89m:62046**
Valent, G. *see* **Letessier, J., 89b:33005**
Veres, S. Conditional local asymptotic normality for nonergodic diffusion processes. **89j:62135**
— Asymptotic distribution of maximum likelihood estimators for nonstationary autoregressive processes. (Russian summary) **89d:62088**
Vieu, Philippe *see* **Sarda, Pascal, 89b:62087**
Volf, P. Estimation of the mean from randomly censored data. (Russian summary) **89a:62212**
Vostrikova, L. Yu. Functional limit theorems for the likelihood ratio processes. **89e:62037**
Wang, Jane-Ling Estimators of a distribution function with increasing failure rate average. **89c:62181**
Wei, C. Z. *see* **Chan, N. H., 89b:62186**
Weiss, G. H. *see* **Bendler, John T.; et al., 89m:82051**
Welsh, A. H. *see* **Heathcote, C. R., 89d:62044**
Weng, Li-Jen *see* **Bentler, P. M.; et al., 89b:62136**
de Wet, T. Degenerate U- and V-statistics. **89b:62096**
Yamazoe, Shirō Distribution of test statistic of aggregate data from Markov chains. (Japanese. English summary) **89b:62181**
Yang, Grace L. *see* **Chang, Myron N., 89c:62070**
Yang, Shie-Shien A central limit theorem for the bootstrap mean. **89m:62001**
Yin, Yong Quan *see* **Bai, Zhi Dong, 89c:60049**
Zhao, Jiang Convergence rates for multivariate Priestly-Chao estimators and their derivatives. (Chinese. English summary) **89m:62044**
Zheng, Zu Kang Strong uniform consistency for density estimator from randomly censored data. **89k:62058**

62E25 Monte Carlo studies

Drueg, H. W. *see* **Lewis, P. A. W.; et al., 89f:62017**
Gómez Arias, Jorge (*with* Pérez-Abreu, Víctor) Constructing confidence intervals for the localization parameter of a symmetric stable distribution. (Spanish) (*see* **89k:00009**)
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Witschel, Horst *see* **Schneeweiss, Hans, 89m:62018**

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62E30 Formal computational methods (polykays, etc.)

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62E99 None of the above, but in this section

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62Fxx Parametric inference

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62F03 Hypothesis testing

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Siegmund, David *see* **James, Barry; et al., 89b:60070**
Sinha, Bimal Kumar *see* **Kariya, Takeaki; et al., 89c:62068**
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62F04 Small sample properties of tests

Gutmann, Sam Tests uniformly more powerful than uniformly most powerful monotone tests. **89c:62049**
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Sen Gupta, Ashis Tests for standardized generalized variances of multivariate normal populations of possibly different dimensions. **89a:62127**

62F05 Asymptotic properties of tests

Akritas, Michael G. An asymptotic derivation of Neyman's $C(\alpha)$ test. **89g:62033**
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Khmaladze, È. V. *see* **Nikabadze, A. M., 89b:62059**
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Korolyuk, V. S. (*with* Borovskikh, Yu. V.) A functional limit theorem for the mean square deviation of a density estimate. (Russian) **89g:62035**
Kourouklis, Stavros Asymptotic optimality of likelihood ratio tests for exponential distributions under type II censoring. **89k:62033**
— Hodges-Lehmann efficacies of certain tests in multivariate analysis and regression analysis. (French summary) **89m:62022**
Lin′kov, Yu. N. Asymptotic properties of the Neyman-Pearson test in the case of completely asymptotically distinguishable hypotheses. (Russian) **89a:62055**
Martín Rodríguez, F. (*with* González de Garibay, V.) Asymptotic and exact distributions of a fuzzy chi-squared statistic. (Spanish. English summary) (*see* **89d:00009**)
— *see also* **González de Garibay, V.**, (**89d:00009**)
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Nikabadze, A. M. (*with* Khmaladze, È. V.) On goodness-of-fit tests for parametric hypotheses in $\mathbf{R}^m$. (Russian) **89b:62059**
Portnoy, Stephen Asymptotic behavior of likelihood methods for exponential families when the number of parameters tends to infinity. **89a:62056**
Samaranayake, V. A. (*with* Bain, Lee J.) A confidence interval for treatment component-of-variance with applications to differences in means of two exponential distributions. (Not in MR)
Shi, Xi Quan Bootstrapping the Hodges-Lehmann estimator. (Chinese) **89c:62051**
Westfall, Peter H. *see* **Fenech, Alan P., 89g:62034**

Items with secondary classifications in 62F05

(Bass, Jean) *see* **Vo Khac, Khoan, 89k:62001**
Browne, Michael W. (*with* Shapiro, Alexander) Adjustments for kurtosis in factor analysis with elliptically distributed errors. **89b:62123**
Chan, Y. M. (*with* Srivastava, M. S.) Comparison of powers for the sphericity tests using both the asymptotic distribution and the bootstrap method. **89b:62113**
Drost, F. C. ★ Asymptotics for generalized chi-square goodness-of-fit tests. **89h:62036**
Dyl′ko, T. N. Choice of coefficients of the statistic for testing a hypothesis of identical distribution in problems of the analysis of dichotomous information. (Russian) **89i:62032**
van de Geer, Sara *see* **Haccou, Patsy; et al., 89b:62054**
Ghosh, Malay *see* **Mantelle, Lily Llorens, 89i:62033**
Giles, David E. A. *see* **Ullah, A., 89e:62087**
Haccou, Patsy (*with* Meelis, Evert; van de Geer, Sara) The likelihood ratio test for the change point problem for exponentially distributed random variables. **89b:62054**
Hayakawa, Takesi Correction to: "The likelihood ratio criterion and the asymptotic expansion of its distribution" [Ann. Inst. Statist. Math. 29 (1977), no. 3, 359–378; MR 57 #14225]. **89a:62049**
Hjort, N. L. *see* **Quinn, B. G.; et al., 89g:62032**
Jacod, Jean Partial likelihood process and asymptotic normality. **89e:62025**
Kassam, Saleem A. ★ Signal detection in non-Gaussian noise. **89f:94005**
Lee, Chu-In Charles Chi-squared tests for and against an order restriction on multinomial parameters. **89c:62046**
Maekawa, Koichi Comparing the Wald, LR and LM tests for heteroscedasticity in a linear regression model. **89b:62146**
Mantelle, Lily Llorens (*with* Ghosh, Malay) Generalised likelihood ratio tests for two-parameter exponentials under type I censoring. **89i:62033**
McLachlan, Geoffrey J. *see* **Quinn, B. G.; et al., 89g:62032**
Meelis, Evert *see* **Haccou, Patsy; et al., 89b:62054**
Mudholkar, Govind S. (*with* Subbaiah, Perla) On a Fisherian detour of the step-down procedure for MANOVA. **89b:62116**
Quinn, B. G. (*with* McLachlan, Geoffrey J.; Hjort, N. L.) A note on the Aitkin-Rubin approach to hypothesis testing in mixture models. **89g:62032**
Ramakrishna Sarma, Y. Asymptotic properties of Rao's test for testing hypotheses in discrete parameter stochastic process. **89f:62072**
Rogers, Alan J. The Bahadur efficiency of tests of some joint hypotheses. **89k:62031**
Shapiro, Alexander *see* **Browne, Michael W., 89b:62123**
Singh, Avinash C. On the optimality and a generalization of Rao-Robson's statistic. **89c:62048**
Srivastava, M. S. *see* **Chan, Y. M., 89b:62113**
Subbaiah, Perla *see* **Mudholkar, Govind S., 89b:62116**
Takemura, Akimichi *see* **Takeuchi, Kei, 89m:62016**
Takeuchi, Kei (*with* Takemura, Akimichi) On Cornish-Fisher type expansion of likelihood ratio statistic in one parameter exponential family. **89m:62016**
Ullah, A. (*with* Giles, David E. A.) The positive-part Stein-rule estimator and tests of linear hypotheses. **89e:62087**
Vo Khac, Khoan ★ Estimation et tests paramétriques et non paramétriques. (French) [Parametric and nonparametric estimation and tests] **89k:62001**

62F07 Ranking and selection

Bechhofer, Robert E. (*with* Goldsman, David M.) Sequential selection procedures for multifactor experiments involving Koopman-Darmois populations with additivity. **89c:62052**
— (*with* Goldsman, David M.) Truncation of the Bechhofer-Kiefer-Sobel sequential procedure for selecting the normal population which has the largest mean. II. 2-factor experiments with no interaction. (Not in MR)
Bhandari, Subir Kumar (*with* Bose, Arup) On selecting the most likely event. **89h:62040**
Bose, Arup *see* **Bhandari, Subir Kumar, 89h:62040**
Chen, Pinyuen The k-in-a-row procedure in selection theory. **89b:62060**
— Comparison of multinomial cells with a control. **89a:62057**
— (*with* Sobel, Marc J.; Sobel, Milton) Selection problem for a modified multinomial (voting) model. **89a:62058**
— Closed inverse sampling procedure for selecting the largest multinomial cell probability. **89j:62036**
Cohen, Arthur (*with* Sackrowitz, H. B.) A decision theory formulation for population selection followed by estimating the mean of the selected population. **89b:62061**
Darmanto, S. *see* **Mukhopadhyay, Nitis; et al., 89i:62036**
Dudewicz, Edward J. *see* **Mishra, Satya N., 89b:62064**
Fligner, Michael A. (*with* Verducci, Joseph S.) Multistage ranking models. **89j:62037**
Giani, Guido Errata: "Designing selection experiments with Bernoulli populations" [Comm. Statist. B—Simulation Comput. **16** (1987), no. 2, 535–549]. (Not in MR)
Goldsman, David M. *see* **Bechhofer, Robert E., 89c:62052** *and* (Not in MR)
Gupta, Shanti S. (*with* Liang, TaChen) Selecting the best unknown mean from normal populations having a common unknown coefficient of variation. **89d:62023**
— (*with* Liang, TaChen) On some Bayes and empirical Bayes selection procedures. **89g:62036**
— (*with* Leu, Lii-Yuh) An asymptotic distribution-free selection procedure for a two-way layout problem. **89c:62053**
— (*with* Miescke, Klaus J.) On the problem of finding the largest normal mean under heteroscedasticity. **89c:62054**
Hamdy, H. I. *see* **Mukhopadhyay, Nitis; et al., 89i:62036**
Han, Kyung Soo (*with* Kim, Woo Chul) A two-stage selection procedure for exponential populations. **89g:62037**
Huang, Wên T'ao (*with* Wu, Chin Chuan) Sequential selection of a best coin. **89e:62026**
— On least favorable configurations for some Poisson selection rules and some conditional tests. **89b:62062**
Jen, Bo Cho *see* **Lin, Liang Ying, 89i:62034**
Jeyaratnam, S. (*with* Panchapakesan, S.) Selection from uniform populations based on sample midranges and an associated estimation after selection. **89e:62027**
Kim, Jee Soo A subset selection procedure for exponential populations under random censoring. **89h:62041**
Kim, Woo Chul *see* **Han, Kyung Soo, 89g:62037**
Leu, Lii-Yuh Selection of the best normal population better than a control: dependence case. **89e:62028**
— *see also* **Gupta, Shanti S., 89c:62053**
Levin, Bruce *see* **Zybert, Patricia, 89a:62063**
Liang, TaChen (*with* Panchapakesan, S.) Inference about the change-point in a sequence of random variables: a selection approach. **89b:62063**
— Isotonic rules for selecting good exponential populations. **89k:62034**
— *see also* **Gupta, Shanti S., 89d:62023** *and* **89g:62036**
Lin, Liang Ying (*with* Jen, Bo Cho) A procedure for the selection of populations with means falling within certain normal limits. **89i:62034**
Mehta, Gobind P. Restricted subset selection for nonparametric families. **89k:62035**
Miescke, Klaus J. *see* **Gupta, Shanti S., 89c:62054**
Mishra, Satya N. Simultaneous selection of extreme populations scale parameter case. **89a:62059**
— (*with* Dudewicz, Edward J.) Simultaneous selection of extreme populations: a subset selection approach. **89b:62064**
Mukhopadhyay, Nitis Asymptotic considerations for selecting the best component of a multivariate normal population. **89a:62060**
— Three-stage procedures for selecting the best exponential population. **89i:62035**

— (*with* Hamdy, H. I.; Darmanto, S.) Simultaneous estimation after selection and ranking and other procedures: the negative exponential case. **89i:62036**

Panchapakesan, S. *see* **Liang, TaChen, 89b:62063** *and* **Jeyaratnam, S., 89e:62027**

Park, Dong Ho (*with* Saxena, K. M. Lal) Nonparametric procedure for selecting the least NBU population: large sample approach. **89g:62038**

Prasad, M. S. (*with* Rajhans, D. K.) Selection from normal populations based on coefficient of variation. **89g:62039**

Rajhans, D. K. *see* **Prasad, M. S., 89g:62039**

Sackrowitz, H. B. *see* **Cohen, Arthur, 89b:62061**

Sanchez, Susan M. A modified least-failures sampling procedure for Bernoulli subset selection. **89a:62061**

Saxena, K. M. Lal *see* **Park, Dong Ho, 89g:62038**

Sehr, Joachim On a conjecture concerning the least favorable configuration of a two-stage selection procedure. **89k:62036**

Sharma, Divakar *see* **Vellaisamy, P., 89k:62037**

Sobel, Marc J. *see* **Chen, Pinyuen; et al., 89a:62058**

Sobel, Milton *see* **Chen, Pinyuen; et al., 89a:62058**

Somerville, P. N. Correction and addendum note: "On the geometry of some subset selection procedures" [Amer. J. Math. Management Sci. **6** (1986), no. 1-2, 169–184; MR 88a:62058]. **89a:62062**

Tsêng, Shêng Ts'ang Selecting more reliable Weibull populations than a control. **89g:62040**

Vellaisamy, P. (*with* Sharma, Divakar) Estimation of the mean of the selected gamma population. **89k:62037**

Venter, J. H. Estimation of the mean of the selected population. **89g:62041**

Verducci, Joseph S. *see* **Fligner, Michael A., 89j:62037**

Wu, Chin Chuan *see* **Huang, Wên T'ao, 89e:62026**

Zybert, Patricia (*with* Levin, Bruce) Selecting the highest of three binomial probabilities. **89a:62063**

Items with secondary classifications in 62F07

Bofinger, Eve Step down procedures for comparison with a control. **89b:62157**

Dudewicz, Edward J. *see* **Taneja, Baldeo K., 89b:62168**

Gupta, Shanti S. (*with* Liang, TaChen) Empirical Bayes rules for selecting the best binomial population. **89e:62010**

Liang, TaChen *see* **Gupta, Shanti S., 89e:62010**

Srivastava, M. S. Bootstrap method in ranking and slippage problems. **89b:62050**

Taneja, Baldeo K. (*with* Dudewicz, Edward J.) Selection in factorial experiments with interaction, especially the 2 × 2 case. **89b:62168**

62F10 Point estimation

Aalto, Sergei K. Minimum variance simple function approximation. **89d:62024**

Abdulev, R. A. (*with* Simonova, L. G.) Quadratic error of an unbiased estimate of the probability density of sufficient statistics of the normal distribution. **89j:62038**

Abdushukurov, A. A. (*with* Kim, L. V.) Cramér-Rao and Bhattacharyya lower bounds under random censoring of observations. (Russian) **89e:62029**

de Abreu, Clovis Pompílio *see* **Barbosa, José Carlos; et al.**, (Not in MR)

Abu-Salih, M. S. (*with* Ali, Mohamed Akkas; Yousef, M. A. Q.) On some shrinkage techniques for estimating the parameters of exponential distribution. **89j:62039**

Ahmad, Munir (*with* Kazi, M. H.) On exact and asymptotic moments of inverse of mean of a normal population. **89f:62021**

Akahira, Masafumi (*with* Takeuchi, Kei) The lower bound for the variance of unbiased estimators for one-directional family of distributions. **89b:62065**

Alam, S. N. (*with* Rizvi, S. G. A.) Estimation of scale parameter of generalized gamma distribution. **89a:62064**

Ali, Mohamed Akkas *see* **Abu-Salih, M. S.; et al., 89j:62039**

Amari, Shun-ichi (*with* Kumon, Masayuki) Estimation in the presence of infinitely many nuisance parameters—geometry of estimating functions. **89i:62037**

(Artzner, Ph.) *see* **Fuchs, Aimé, 89b:62069**

Balakrishnan, N. (*with* Puthenpura, S.) Best linear unbiased estimators of location and scale parameters of the half logistic distribution. (Not in MR)

— (*with* Malik, H. J.; Puthenpura, S.) Best linear unbiased estimation of location and scale parameters of the log-logistic distribution. **89f:62022**

Barbosa, José Carlos (*with* Perecin, Dilermando; de Abreu, Clovis Pompílio) Computational aspects of the parameter estimation of negative binomial distributions and distributions of Neyman type A by the minimum chi-squared method. (Portuguese. English summary) (Not in MR)

Batomunkueva, G. V. (*with* Belov, A. G.; Galkin, V. Ya.; Ufimtsev, M. V.) Optimal estimates for the parameters of multiple distributions. (Russian) **89a:62065**

Beg, M. I. On estimation of scale parameter of gamma distribution. **89d:62025**

Bell, Bradley M. Generalized gamma parameter estimation and moment evaluation. **89f:62023**

Belov, A. G. *see* **Batomunkueva, G. V.; et al., 89a:62065**

Bener, A. (*with* Huda, S.) Maximum likelihood estimation of components of variance and correlations in the analysis of family data. **89k:62038**

Bennett, Blair Miller On confidence regions in multiple assays. (Not in MR)

Berry, J. Calvin Equivariant estimation of a normal mean using a normal concomitant variable for covariance adjustment. (French summary) **89a:62066**

Bertolino, F. (*with* Racugno, Walter) On error bounds in choosing between two simple hypotheses. (Italian summary) **89e:62030**

Bezdek, J. C. *see* **Davenport, J. W.; et al., 89h:62045**

Bickel, P. J. (*with* Yahav, Joseph A.) On estimating the number of unseen species and system reliability. **89e:62031**

Blough, David K. Consistent estimation of location region. **89h:62042**

Bowman, K. O. (*with* Shenton, L. R.) ★ Properties of estimators for the gamma distribution. **89h:62043**

Burnham, K. P. A comment on maximum likelihood estimation for finite mixtures of distributions. (Not in MR)

Carroll, Raymond J. *see* **Stefanski, Leonard A., 89h:62048**

Chan, Lai Kow (*with* Cheng, Smiley W.) Linear estimation of the location and scale parameters based on selected order statistics. **89k:62039**

Charek, Dennis J. (*with* Moore, Albert H.; Coleman, Joseph W.) A comparison of estimation techniques for the three parameter Pareto distribution. (Not in MR)

Chaubey, Y. P. (*with* Singh, Balvir) Almost unbiased estimation in multiplicative models. **89b:62066**

Chen, Chong Hong *see* **Cheng, Kuang Fu, 89c:62055**

Cheng, Kuang Fu (*with* Chen, Chong Hong) Estimation of the Weibull parameters with grouped data. **89c:62055**

Cheng, Smiley W. *see* **Chan, Lai Kow, 89k:62039**

Cheng, Xing Xin Convergence of the EM algorithm. (Chinese. English summary) **89c:62056**

Chichagov, V. V. (*with* Shekhovtsova, M. G.) Two problems in the comparison of point estimates. **89i:62038**

Coleman, Joseph W. *see* **Charek, Dennis J.; et al.**, (Not in MR)

Consul, P. C. (*with* Famoye, Felix) Maximum likelihood estimation for the generalized Poisson distribution when sample mean is larger than sample variance. **89h:62044**

Davenport, J. W. (*with* Bezdek, J. C.; Hathaway, R. J.) Parameter estimation for finite mixture distributions. **89h:62045**

Donoho, David L. (*with* Liu, Richard C.) Pathologies of some minimum distance estimators. **89e:62032**

Eastham, Jerome F. (*with* LaRiccia, Vincent N.; Schuenemeyer, John H.) Small sample properties of the maximum likelihood estimators for an alternative parameterization of the three-parameter lognormal distribution. **89b:62067**

Ebrahimi, Nader (*with* Hosmane, Balakrishna) On shrinkage estimation of the exponential location parameter. **89b:62068**

Famoye, Felix *see* **Consul, P. C., 89h:62044**

Freund, David E. Selecting estimators for the standard deviation of a normal distribution. **89d:62026**

Fuchs, Aimé Estimateurs efficaces et densités bayésiennes impropres. [Efficient estimators and improper Bayes densities] **89b:62069**

Gajek, Lesław An improper Cramér-Rao lower bound. **89a:62067**

Galkin, V. Ya. *see* **Batomunkueva, G. V.; et al., 89a:62065**

Gather, U. (*with* Kale, B. K.) Maximum likelihood estimation in the presence of outliers. (Not in MR)

Ghosh, Malay (*with* Mantelle, Lily Llorens) Maximum likelihood estimation for two parameter exponentials under type I censoring. **89h:62046**

Green, Jack *see* **Ragab, Aisha, 89a:62069**

Green, Peter J. *see* **Lenth, Russell V., 89b:62072**

Guerrero, Victor M. (*with* Johnson, Richard A.) Transforming grouped bivariate data to near normality. **89a:62068**

Gupta, Ramesh C. *see* **Gupta, Rameshwar D.**, (Not in MR)

Gupta, Rameshwar D. (*with* Gupta, Ramesh C.) Estimation of $P(Y_p > \mathrm{Max}\,(Y_1, Y_2, \cdots, Y_{p-1}))$ in the exponential case. (Not in MR)

Hathaway, R. J. *see* **Davenport, J. W.; et al., 89h:62045**

Hill, Joe R. (*with* Tsai, Chih-Ling) Calculating the efficiency of maximum quasilikelihood estimation. (Not in MR)

Hosmane, Balakrishna *see* **Ebrahimi, Nader, 89b:62068**

Howlader, H. *see* **Weiss, Günter M. T.**, (Not in MR)

Huda, S. *see* **Bener, A., 89k:62038**

Iyer, H. K. *see* **Yao, Y.-C., 89j:62042**

Jani, P. N. Minimum variance unbiased estimation of reliability and its variance in exponential life model under censorings. (Not in MR)

Johnson, Norman Lloyd^2 (*with* Kotz, S.) Estimation from binomial data with classifiers of known and unknown imperfections. **89b:62070**

Johnson, Richard A. *see* **Guerrero, Victor M., 89a:62068**

Joshi, P. C. Estimation and testing under exchangeable exponential model with a single outlier. (Not in MR)

Joshi, V. M. Admissibility of the best invariant estimator of a location parameter. **89b:62071**

Kale, B. K. Essential uniqueness of optimal estimating functions. **89c:62057**

— *see also* **Gather, U.**, (Not in MR)

Kałuszka, Marek On a unified approach to a Cramér-Rao-type inequality. (Polish. English summary) **89f:62024**

Kazi, M. H. *see* **Ahmad, Munir, 89f:62021**

Khan, Masood Amjad Small sample distribution of minimum-B estimate. (Not in MR)

Kim, L. V. *see* **Abdushukurov, A. A., 89e:62029**

Kitahara, Teisuke *see* **Nomachi, Yukio; et al., 89d:62028**

Kotz, S. *see* **Johnson, Norman Lloyd**^{2}**, 89b:62070**

Krishnamoorthy, K. (*with* Rohatgi, Vijay K.) Minimum variance unbiased estimation in some nonregular families. **89j:62040**

Kumon, Masayuki *see* **Amari, Shun-ichi, 89i:62037**

Kyparisis, Jerzy *see* **Zanakis, Stelios H., 89m:62028**

LaRiccia, Vincent N. *see* **Eastham, Jerome F.; et al., 89b:62067**

Lee, Seung-Hoon (*with* Yum, Bong-Jin) Large-sample comparisons of statistical calibration procedures when the standard measurement is also subject to error: the replicated case. **89j:62041**

Lenth, Russell V. (*with* Green, Peter J.) Consistency of deviance-based M estimators. **89b:62072**

Liang, Kung-Yee Estimating functions and approximate conditional likelihood. **89c:62058**

Liu, Richard C. *see* **Donoho, David L., 89e:62032**

Madan, Dilip B. (*with* Seneta, E.) Simulation of estimates using the empirical characteristic function. (French summary) **89g:62042**

Malik, H. J. *see* **Balakrishnan, N.; et al., 89f:62022** *and* **Pandey, B. N.**, (Not in MR)

Manski, Charles F. Identification of binary response models. **89k:62040**

Mantelle, Lily Llorens *see* **Ghosh, Malay, 89h:62046**

Meister, H. (*with* Moeschlin, O.) Conditions of Rao's covariance method type for set-valued estimators. **89e:62033**

Moeschlin, O. *see* **Meister, H., 89e:62033**

Moore, Albert H. *see* **Charek, Dennis J.; et al.**, (Not in MR)

Moothathu, T. S. K. On the best estimators of coefficients of variation, skewness and kurtosis of Pareto distribution and their variances. (Not in MR)
Nagaev, A. V. (*with* Yurovskaya, S. A.) On a problem of estimating the parameters of a Weibull distribution. (Russian) **89d:62027**
Nomachi, Toshifumi *see* **Nomachi, Yukio; et al., 89d:62028**
Nomachi, Yukio (*with* Kitahara, Teisuke; Nomachi, Toshifumi) On some two-stage estimators utilizing prior informations after the preliminary tests. **89d:62028**
Pandey, B. N. (*with* Malik, H. J.) Some improved estimators for a measure of dispersion of an inverse Gaussian distribution. (Not in MR)
(Patel, Y. C.) *see* **Bowman, K. O., 89h:62043**
Patwardhan, Girish Tests for exponentiality. **89i:62039**
Peña, Edsel A. (*with* Rohatgi, Vijay K.) Estimation of parameters under a random censorship model. **89k:62041**
Perecin, Dilermando *see* **Barbosa, José Carlos; et al.**, (Not in MR)
Plachky, D. Conservation of properties of optimality of some statistical tests and point estimators under extensions of distributions. **89b:62073**
Puthenpura, S. *see* **Balakrishnan, N.; et al., 89f:62022** *and* (Not in MR)
Racugno, Walter *see* **Bertolino, F., 89e:62030**
Ragab, Aisha (*with* Green, Jack) Estimation of the parameters of the loglogistic distribution based on order statistics. **89a:62069**
Rayens, William S. *see* **Razzaghi, Mehdi, 89g:62043**
Razzaghi, Mehdi (*with* Rayens, William S.) Modified maximum likelihood estimator for the mixing distribution in a finite mixture. **89g:62043**
Rizvi, S. G. A. *see* **Alam, S. N., 89a:62064**
Robbins, Herbert The U, V method of estimation. **89a:62070**
Rohatgi, Vijay K. *see* **Krishnamoorthy, K., 89j:62040; Peña, Edsel A., 89k:62041** *and* **Saleh, A. K. Md. Ehsanes, 89m:62024**
Rout, U. *see* **Sarangi, J., 89h:62047**
Rukhin, Andrew L. Estimating a linear function of the normal mean and variance. **89a:62071**
Saleh, A. K. Md. Ehsanes (*with* Rohatgi, Vijay K.) Estimation of parameters of location-scale family of distributions in complete and type II censored samples. **89m:62024**
Samanta, M. A unified approach to minimum variance unbiased estimation of a probability function belonging to an exponential family. (Not in MR)
Sarangi, J. (*with* Rout, U.) Some UMVU estimators in the generalised Poisson distribution. **89h:62047**
Schäbe, Hendrik Zur Parameterschätzung in Mischverteilungen. [On parameter estimation in mixture distributions] **89a:62072**
Schork, M. Anthony *see* **Schork, Nicholas J., 89i:62040**
Schork, Nicholas J. (*with* Schork, M. Anthony) Skewness and mixtures of normal distributions. **89i:62040**
Schuenemeyer, John H. *see* **Eastham, Jerome F.; et al., 89b:62067**
Seneta, E. *see* **Madan, Dilip B., 89g:62042**
Shanmugam, Ramalingam Estimating the fraction of population in an income bracket using Pareto distribution. (Not in MR)
Shekhovtsova, M. G. *see* **Chichagov, V. V., 89i:62038**
Shenton, L. R. *see* **Bowman, K. O., 89h:62043**
Simonova, L. G. *see* **Abdulev, R. A., 89j:62038**
Singh, Balvir *see* **Chaubey, Y. P., 89b:62066**
Stam, A. J. Statistical problems in ancient numismatics. **89b:62074**
Stefanski, Leonard A. (*with* Carroll, Raymond J.) Conditional scores and optimal scores for generalized linear measurement-error models. **89h:62048**
Takeuchi, Kei *see* **Akahira, Masafumi, 89b:62065**
Targhetta, M. Luisa On the attainment of a lower bound for the Bayes risk in estimating a parametric function. **89f:62025**
Tiit, È. Unbiased and n^{-k}-biased estimations of entire rational functions of moments. (Russian summary) **89m:62025**
Tiku, M. L. Modified maximum likelihood estimation for the bivariate normal. (Not in MR)
Trognon, Alain Les méthodes du pseudo-maximum de vraisemblance. (English summary) [The pseudo-maximum likelihood methods] **89c:62059**
Tsai, Chih-Ling *see* **Hill, Joe R.**, (Not in MR)
Ufimtsev, M. V. *see* **Batomunkueva, G. V.; et al., 89a:62065**
Vardi, Yehuda Statistical models for intercepted data. **89i:62041**
Voinov, V. G. Some special formulas for the inversion of Laplace transforms and their application to a problem of the unbiased estimation of the parameters of probability distributions. (Russian. English summary) **89m:62026**
Weiss, Günter M. T. (*with* Howlader, H.) Linear scale estimation. (Not in MR)
Wilcox, Rand R. A new alternative to the ANOVA F and new results on James's second-order method. **89i:62042**
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Yousef, M. A. Q. *see* **Abu-Salih, M. S.; et al., 89j:62039**
Yum, Bong-Jin *see* **Lee, Seung-Hoon, 89j:62041**
Yurovskaya, S. A. *see* **Nagaev, A. V., 89d:62027**
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Items with secondary classifications in 62F10

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Basalykas, A. Probabilities of large deviations for polynomial Pitman estimators. (Russian. English and Lithuanian summaries) **89c:62061**
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Dharmadhikari, A. D. *see* **Sarmah, P., 89c:62178**
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Huang, Wei-Min *see* **Hall, W. J., 89g:62059**
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Nikitin, Ya. Yu. Large deviations and asymptotic efficiency of integral statistics for a test of independence. (Russian) **89b:62093**

Oishi, Jorge *see* **Leite, José Galvão; et al., 89d:62012**

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Shamseldin, A. A. *see* **Abu-Salih, M. S., 89e:62038**

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Sundaraiyer, Vani *see* **Whitten, Betty Jones; et al., 89e:62058**

Susarla, V. *see* **Schick, A., 89m:62041**

Toutenburg, Helge ★ MSE-comparisons between restricted least squares, mixed and weighted mixed estimators with special emphasis to nested restrictions. **89f:62057**

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Walter, Gilbert G. *see* **Hamedani, G. G., 89c:62062**

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Zhang, Cun Hui *see* **Robbins, Herbert, 89f:62089**

Zheng, Zhong Guo *see* **He, Kun, 89f:62032**

62F11 Small sample properties of estimators

Akahira, Masafumi (*with* Takeuchi, Kei) On the bound of the asymptotic distribution of estimators when the maximum order of consistency depends on the parameter. **89a:62073**

Klaassen, C. A. J. (*with* van der Vaart, A. W.; van Zwet, W. R.) On estimating a parameter and its score function. II. **89d:62029**

Shi, Xi Quan A note on the delete-*d* jackknife variance estimators. **89e:62035**

Sprott, David A. *see* **Viveros, Román, 89c:62060**

Takeuchi, Kei *see* **Akahira, Masafumi, 89a:62073**

van der Vaart, A. W. *see* **Klaassen, C. A. J.; et al., 89d:62029**

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van Zwet, W. R. *see* **Klaassen, C. A. J.; et al., 89d:62029**

Items with secondary classifications in 62F11

Chou, Chin Fêng An identity for multidimensional continuous exponential families and its applications. **89g:62022**

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Hosmane, Balakrishna *see* **Ebrahimi, Nader, 89b:62068**

LaRiccia, Vincent N. *see* **Eastham, Jerome F.; et al., 89b:62067**

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62F12 Asymptotic properties of estimators

Akahira, Masafumi (*with* Hirakawa, Fumiko; Takeuchi, Kei) Second and third order asymptotic completeness of the class of estimators. **89d:62030**

Baasanzhav, M. *see* **Shagdar, L., 89f:62027**

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Basalykas, A. Probabilities of large deviations for polynomial Pitman estimators. (Russian. English and Lithuanian summaries) **89c:62061**

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Carroll, Raymond J. *see* **Simpson, Douglas G.; et al., 89b:62076**

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David, H. T. *see* **Hong, Chong Sun, 89m:62031**

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Girko, V. L. The fundamental equation of *G*-analysis. (Russian) **89b:62075**

— Consistency of estimates obtained by means of the fundamental equation of *G*-analysis. (Russian) **89g:62046**

Haeusler, Erich *see* **Deheuvels, Paul; et al., 89i:62043**

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Hirakawa, Fumiko Second order asymptotically complete class of estimators with respect to general loss functions. **89i:62045**

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Jensen, J. L. On asymptotic expansions in nonergodic models. **89i:62046**

Kozhushko, È. I. (*with* Sakhanenko, A. I.) On conditions for the asymptotic efficiency of recursive estimates for the location parameter. (Russian) **89a:62075**

Mason, David M. *see* **Deheuvels, Paul; et al., 89i:62043**

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Ruppert, David *see* **Simpson, Douglas G.; et al., 89b:62076**

Sakhanenko, A. I. *see* **Kozhushko, È. I., 89a:62075**

Shagdar, L. (*with* Baasanzhav, M.) Statistical inference with dependent observations. (Russian) **89f:62027**

Shao, Jun Consistency of jackknife estimators of the variances of sample quantiles. **89k:62043**

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Takeuchi, Kei *see* **Akahira, Masafumi; et al., 89d:62030**

van der Vaart, A. W. Estimating a real parameter in a class of semiparametric models. **89m:62032**

Valkeila, E. (*with* Vostrikova, L. Yu.) Predictable tests for (c_n)-consistency of estimates. (Russian) **89k:62044**

Vostrikova, L. Yu. Functional limit theorems for the likelihood ratio processes. **89e:62037**

— On weak convergence of parameter estimators of general statistical parametric models. **89k:62045**

— *see also* **Valkeila, E., 89k:62044**

Wets, Roger J.-B. *see* **Dupačová, Jitka, 89i:62044**

Zolotukhina, L. A. *see* **Balitskaya, E. O., 89m:62029**

Items with secondary classifications in 62F12

Babu, Gutti Jogesh A note on comparison of conditional means. **89i:62054**

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Bhattacharya, P. K. Maximum likelihood estimation of a change-point in the distribution of independent random variables: general multiparameter case. **89a:62046**

Bondarev, B. V. On testing composite statistical hypotheses. I. **89c:62043**

Borovskikh, Yu. V. The law of large numbers for UH-statistics. (Russian. English summary) **89j:60047**

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Carroll, Raymond J. (*with* Cline, Daren B. H.) An asymptotic theory for weighted least-squares with weights estimated by replication. **89c:62105**

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Cline, Daren B. H. *see* **Carroll, Raymond J., 89c:62105**

Dorogovtsev, A. Ya. (*with* Zerek, N.; Kukush, A. G.) Weak convergence to the normal distribution of an estimator for an infinite-dimensional parameter. (Russian) **89h:62095**
Dynin, S. M. *see* **Bartoszyński, R., 89g:62159**
Ebrahimi, Nader Estimating the parameters of a bivariate exponential distribution from a randomly censored sample. **89b:62108**
Florens-Zmirou, Danièle Statistiques de diffusions et temps local. (English summary) [Statistics of diffusions and local time] **89f:60089**
Ghosh, Malay (*with* Mantelle, Lily Llorens) Maximum likelihood estimation for two parameter exponentials under type I censoring. **89h:62046**
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Hesselager, Ole On the asymptotic distribution of weighted least squares estimators. **89m:62065**
Hostmann, Uwe A note on an estimate for the convergence rate of the LSE in inadequate nonlinear regression models. **89e:62077**
— Asymptotic optimality of estimators and tests in inadequate nonlinear regression. **89j:62080**
Hsiung, Chao Agnes *see* **Chang, I. Shou, 89k:62023**
Hurt, Jan Comparison of some reliability estimators in the exponential case under random censorship. **89i:62166**
Jørgensen, Bent Small dispersion asymptotics. **89k:62032**
Jurečková, Jana (*with* Kallenberg, W. C. M.; Veraverbeke, N.) Moderate and Cramér-type large deviation theorems for M-estimators. **89b:62047**
Kallenberg, W. C. M. *see* **Jurečková, Jana; et al., 89b:62047**
Keegel, J. C. *see* **Kullback, S.; et al., 89b:62015**
Klaassen, C. A. J. Consistent estimation of the influence function of locally asymptotically linear estimators. **89e:62022**
Koenker, Roger (*with* Portnoy, Stephen) L-estimation for linear models. **89b:62142**
Kukush, A. G. Convergence with respect to a distribution of a normalized estimate for an infinite-dimensional regression parameter. (Russian. English summary) **89i:62104**
— Rate of convergence of an estimate for nonlinear regression in an infinite-dimensional space in a model with dependent errors. (Russian) **89h:62096**
— *see also* **Dorogovtsev, A. Ya.; et al., 89h:62095**
Kullback, J. H. *see* **Kullback, S.; et al., 89b:62015**
Kullback, S. (*with* Keegel, J. C.; Kullback, J. H.) ★ Topics in statistical information theory. **89b:62015**
Lawless, J. F. *see* **Gould, Ann, 89i:62107**
Magee, Lonnie (*with* Ullah, A.; Srivastava, Virendra Kumar) Efficiency of estimators in the regression model with first-order autoregressive errors. **89h:62108**
Magnus, Jan R. *see* **Heijmans, R. D. H., 89b:62221**
Maller, R. A. Relating Cox's proportional hazard model to the exponential model for survival. **89a:62219**
Mallik, Ashim K. *see* **McCormick, William P.; et al., 89f:62065**
Mantelle, Lily Llorens *see* **Ghosh, Malay, 89h:62046**
Marsh, Gary M. *see* **Rao, B. Raja, 89h:62171**
McCormick, William P. (*with* Mallik, Ashim K.; Reeves, Jaxk Halbert) Strong consistency of the MLE for sequential design problems. **89f:62065**
Newey, Whitney K. Asymptotic equivalence of closest moments and GMM estimators. **89h:62182**
Pantula, Sastry G. On asymptotic properties of the least squares estimators for autoregressive time series with a unit root. **89a:62195**
(Patel, Y. C.) *see* **Bowman, K. O., 89h:62043**
Peña, Edsel A. (*with* Rohatgi, Vijay K.) Estimation of parameters under a random censorship model. **89k:62041**
Pereverzev, E. S. ★ Случайные процессы в параметрических моделях надежности. (Russian) [Random processes in parametric reliability models] **89b:60202**
Pfanzagl, J. Consistency of maximum likelihood estimators for certain nonparametric families, in particular: mixtures. **89g:62063**
Portnoy, Stephen Asymptotic behavior of likelihood methods for exponential families when the number of parameters tends to infinity. **89a:62056**
— *see also* **Koenker, Roger, 89b:62142**
Prakasa Rao, B. L. S. On the rate of convergence of the least squares estimator in nonlinear regression model for multiparameter. **89h:62097**
Rao, B. Raja (*with* Marsh, Gary M.) Approximate variance formulas and asymptotic joint sampling distributions of standardized risk ratios in the presence of competing risks in cohort studies. **89h:62171**
Reeves, Jaxk Halbert *see* **McCormick, William P.; et al., 89f:62065**
Robinson, P. M. The stochastic difference between econometric statistics. **89h:62183**
— Root-N-consistent semiparametric regression. **89j:62057**
Rohatgi, Vijay K. *see* **Peña, Edsel A., 89k:62041**
Shenton, L. R. *see* **Bowman, K. O., 89h:62043**
Singh, Balvir *see* **Chaubey, Y. P., 89b:62066**
Srivastava, Virendra Kumar *see* **Magee, Lonnie; et al., 89h:62108**
Terza, Joseph V. Estimating linear models with ordinal qualitative regressors. **89a:62167**
Ullah, A. *see* **Magee, Lonnie; et al., 89h:62108**
van der Vaart, A. W. ★ Statistical estimation in large parameter spaces. **89e:62049**
Veraverbeke, N. *see* **Jurečková, Jana; et al., 89b:62047**
Vostrikova, L. Yu. Limit theorems for the likelihood ratio processes of statistical parametric models. **89g:60125**
Withers, C. S. Unbiased asymptotically optimal estimates for the problem of the Nile. **89g:62044**
Wu, Yue Hua Strong consistency and exponential rate of the "minimum L_1-norm" estimates in linear regression models. **89h:62114**
Zerek, N. *see* **Dorogovtsev, A. Ya.; et al., 89h:62095**

Items listed otherwise than by author

Lecture Notes in Statistics *see* **Kullback, S.; et al., 89b:62015**

62F15 Bayesian inference

Abu-Salih, M. S. (*with* Shamseldin, A. A.) Bayesian estimation of $P(X < Y)$ for a bivariate exponential distribution. (Arabic summary) **89e:62038**
Albert, James H. Estimation of a Poisson mean using discrete mixtures of conjugate priors. (Not in MR)
Balakrishnan, N. (*with* Tan, W. Y.) Bayesian insight into a robust test for linear contrast based on asymmetric censored samples. (Not in MR)
Berger, J. O. *see* **O'Hagan, Anthony, 89m:62033**
Bolfarine, Heleno *see* **Rodrigues, Josemar; et al.**, (Not in MR)
Broffitt, James D. Restricted Bayes estimates for binomial parameters. **89a:62077**
Chib, Siddhartha *see* **Jammalamadaka, S. Rao; et al., 89g:62047**
Cifarelli, Donato M. (*with* Regazzini, Eugenio) Priors for exponential families which maximize the association between past and future observations. **89b:62077**
Ferreri, Carlo On some methods of assessing Dirichlet prior parameters. (Italian summary) (Not in MR)
Florens, J.-P. (*with* Mouchart, M.; Rolin, Jean-Marie) Exact estimability in conditional models. **89j:62044**
Freeman, P. R. *see* **Wallace, C. S., 89d:62031**
Gajek, Lesław Generalized Bayes estimators of a nonlinear function of the natural parameter of an exponential family of distributions. **89i:62047**
Green, Jack *see* **Ragab, Aisha**, (Not in MR)
Guttorp, Peter (*with* Lockhart, Richard A.) Finding the location of a signal: a Bayesian analysis. (Not in MR)
Hamedani, G. G. (*with* Walter, Gilbert G.) Bayes estimation of the binomial parameter n. **89c:62062**
Huggi, M. R. *see* **Rattihalli, R. N., 89g:62048**
Jammalamadaka, S. Rao (*with* Tiwari, Ram C.; Chib, Siddhartha) Bayes prediction in the linear model with spherically symmetric errors. **89g:62047**
Johnson, Richard A. (*with* Weerahandi, Samaradasa) A Bayesian solution to the multivariate Behrens-Fisher problem. **89f:62028**
Leite, José Galvão *see* **Rodrigues, Josemar; et al.**, (Not in MR)
Lockhart, Richard A. *see* **Guttorp, Peter**, (Not in MR)
Menzefricke, Ulrich Predictive distributions in the presence of measurement error. **89c:62063**
Mouchart, M. *see* **Florens, J.-P.; et al., 89j:62044**
O'Hagan, Anthony (*with* Berger, J. O.) Ranges of posterior probabilities for quasiunimodal priors with specified quantiles. **89m:62033**
Pandey, M. A Bayesian approach to shrinkage estimation of the scale parameter of a Weibull distribution. (Not in MR)
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Ragab, Aisha (*with* Green, Jack) Optimal predictive method for estimating the inverse Gaussian density. (Italian summary) (Not in MR)
Rao, Calyampuli Radhakrishna Prediction of future observations in growth curve models. **89j:62045**
Rattihalli, R. N. (*with* Huggi, M. R.) Optimal Bayesian confidence interval of fixed width. **89g:62048**
Regazzini, Eugenio *see* **Cifarelli, Donato M., 89b:62077**
Rodrigues, Josemar (*with* Bolfarine, Heleno; Leite, José Galvão) A Bayesian analysis in closed animal populations from capture recapture experiments with trap response. (Not in MR)
Rolin, Jean-Marie Asymptotic behaviour of posterior expectations in dynamical models. **89j:62046**
— *see also* **Florens, J.-P.; et al., 89j:62044**
Rukhin, Andrew L. Bayes estimators in lognormal regression model. **89c:62064**
Salem, Samia A. Bayesian estimation based on mixed Weibull and multicensored samples. **89e:62039**
Shamseldin, A. A. *see* **Abu-Salih, M. S., 89e:62038**
Shaw, J. E. H. A quasirandom approach to integration in Bayesian statistics. **89k:62046**
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Tan, W. Y. *see* **Balakrishnan, N.**, (Not in MR)
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Wallace, C. S. (*with* Freeman, P. R.) Estimation and inference by compact coding. **89d:62031**
Walter, Gilbert G. *see* **Hamedani, G. G., 89c:62062**
Weerahandi, Samaradasa *see* **Johnson, Richard A., 89f:62028**

Items with secondary classifications in 62F15

Akimov, V. P. (*with* Sergeev, V. M.) Determination of preferences on the basis of post-game analysis of events. **89e:90010**
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(Artzner, Ph.) *see* **Fuchs, Aimé, 89b:62069**
Barry, Daniel Nonparametric Bayesian regression. **89a:62149**
Basu, A. P. (*with* Tarmast, Ghasem) Reliability of a complex system from Bayesian viewpoint. **89f:62086**
Bauer, Lothar ★ Inspektionsfehler in der attributiven Qualitätskontrolle. (German) [Inspection errors in quality control by attributes] **89b:62208**
Bertolino, F. (*with* Racugno, Walter) On error bounds in choosing between two simple hypotheses. (Italian summary) **89e:62030**
Bishnoi, B. B. *see* **Singh, Jokhan, 89b:62056**
Bock, M. E. Shrinkage estimators: pseudo-Bayes rules for normal mean vectors. **89b:62106**
Bolfarine, Heleno (*with* Pereira, C. A. de B.; Rodrigues, Josemar) Robust linear prediction in finite populations: a Bayesian perspective. **89c:62021**
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Brown, Morton *see* **Katz, Barry P., 89a:62132**

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Guttman, I. *see* **Sinha, Snehesh Kumar, 89b:62207**

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Hangos, Katalin M. *see* **Kárný, Miroslav, 89j:93106**

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Racugno, Walter *see* **Bertolino, F., 89e:62030**

Ratajová, Monika *see* **Prášková, Z., 89a:62137**

Rizvi, S. G. A. *see* **Alam, S. N., 89a:62064**

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Różański, Roman Minimax sequential estimation in random fields application to the Ornstein-Uhlenbeck case. **89a:62183**

Sedransk, N. *see* **Li, Lung An, 89m:62012**

Sergeev, V. M. *see* **Akimov, V. P., 89e:90010**

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Tarmast, Ghasem *see* **Basu, A. P., 89f:62086**

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62F25 Tolerance and confidence regions

(Alvarez, O.) *see* **Blyth, Colin R.**, (Not in MR)

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Burdick, Richard K. *see* **Birch, Nancy J., 89k:62047**

Casella, George Conditionally acceptable frequentist solutions. **89c:62065**

— *see also* **Maatta, Jon M., 89a:62078**

Chinchilli, Vernon M. *see* **Rode, Richard A.**, (Not in MR)

Cordaşevschi, Cristina Tolerance limits for a distribution of Burr type. (Romanian. English summary) **89b:62078**

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Hsu, Jason C. *see* **Stefansson, Gunnar; et al., 89f:62031**

Huang, Bo Qin The unreasonableness of the ordering method and a modification. (Chinese. English summary) **89i:62049**

Iglehart, Donald L. *see* **Glynn, Peter W., 89f:62029**

Johns, M. Vernon Importance sampling for bootstrap confidence intervals. (Not in MR)

Kim, Woo Chul *see* **Stefansson, Gunnar; et al., 89f:62031**

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(Matuszewski, Andrzej) *see* **Blyth, Colin R.**, (Not in MR)

McNichols, Roger J. *see* **Davis, Charles B.**, (Not in MR)

Meyer, Klaus Dieter *see* **Kruse, Rudolf, (89b:03006)**

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Moliński, Krzysztof *see* **Molińska, Anna, 89f:62030**

Nam, Jun-Mo *see* **Gart, John J., 89c:62066**

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Rijal, Omar *see* **Critchley, Frank; et al., 89e:62040**

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Items with secondary classifications in 62F25

Bain, Lee J. *see* **Shiue, Wei Kei; et al., 89c:62047**

Berry, Jack J. *see* **Edwards, Don, 89g:62122**

Bhattacharyya, G. K. *see* **Chen, Shu-Mei, 89c:62172** *and* **Guttman, I.; et al., 89e:62129**

Burdick, Richard K. *see* **Lu, Tai-Fang C.; et al., 89a:62173**

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Darmanto, S. *see* **Mukhopadhyay, Nitis; et al., 89i:62036**

Doksum, Kjell A. *see* **Dąbrowska, Dorota M., 89a:62208**

Edwards, Don (*with* Berry, Jack J.) The efficiency of simulation-based multiple comparisons. (French summary) **89g:62122**

Ekwo, M. E. *see* **Mukhopadhyay, Nitis, 89b:62175**

Elperin, T. (*with* Gertsbakh, I.) Lower confidence limit for the availability of a parallel system with renewable components. **89e:62128**

Engelhardt, Max *see* **Shiue, Wei Kei; et al., 89c:62047**

Fraser, D. A. S. (*with* Gebotys, R. J.) Nonnested linear models: a conditional confidence approach. (French summary) **89b:62139**

Gardiner, Joseph C. (*with* Susarla, V.; Van Ryzin, John) On bounded length confidence intervals for quantiles of the survival distribution. **89b:62173**

Gebotys, R. J. *see* **Fraser, D. A. S., 89b:62139**

Gertsbakh, I. *see* **Elperin, T., 89e:62128**

Govindarajulu, Z. Fixed-width confidence interval estimation of scale parameter of exponential distribution with unknown location. **89k:62108**

Graybill, Franklin A. *see* **Lu, Tai-Fang C.; et al., 89a:62173**

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Hamdy, H. I. *see* **Mukhopadhyay, Nitis; et al.**, **89i:62036**
Harville, David A. *see* **Jeske, Daniel R.**, **89h:62119**
Holmquist, Björn Estimating and testing the common mean direction of several von Mises populations with known concentrations. **89m:62020**
Hooper, Peter M. Simultaneous estimation and prediction using the expected coverage measure criterion. **89b:62011**
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— *see also* **Guttman, I.; et al.**, **89e:62129**
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Limam, Mohamed M. T. (*with* Thomas, David Reginald) Simultaneous tolerance intervals for the linear regression model. **89i:62112**
Lu, Tai-Fang C. (*with* Graybill, Franklin A.; Burdick, Richard K.) Confidence intervals on a difference of expected mean squares. **89a:62173**
Męczarski, Marek On fixed-precision estimation of the minimum of a regression function and of the minimum of a random variable. (Polish. English summary) **89e:62108**
Meister, H. (*with* Moeschlin, O.) Conditions of Rao's covariance method type for set-valued estimators. **89e:62033**
Moeschlin, O. *see* **Meister, H.**, **89e:62033**
Mukhopadhyay, Nitis (*with* Ekwo, M. E.) Sequential estimation problems for the scale parameter of a Pareto distribution. **89b:62175**
— (*with* Hamdy, H. I.; Darmanto, S.) Simultaneous estimation after selection and ranking and other procedures: the negative exponential case. **89i:62036**
Rattihalli, R. N. (*with* Huggi, M. R.) Optimal Bayesian confidence interval of fixed width. **89g:62048**
Reiser, B. *see* **Guttman, I.; et al.**, **89e:62129**
Shiue, Wei Kei (*with* Bain, Lee J.; Engelhardt, Max) Test of equal gamma-distribution means with unknown and unequal shape parameters. **89c:62047**
Sierociński, Andrzej About a fixed precision estimation of the parameter of uniform density. **89d:62082**
Susarla, V. *see* **Gardiner, Joseph C.; et al.**, **89b:62173**
Takada, Yoshikazu Two-stage procedures for a multivariate normal distribution. **89f:62050**
Thomas, David Reginald *see* **Limam, Mohamed M. T.**, **89i:62112**
Van Ryzin, John *see* **Gardiner, Joseph C.; et al.**, **89b:62173**
Weerahandi, Samaradasa *see* **Johnson, Richard A.**, **89f:62028**

62F35 Robustness and adaptive procedures

Balakrishnan, N. *see* **Tiku, M. L.; et al.**, **89g:62053** *and* **Tan, W. Y.**, (Not in MR)
Boente, Graciela (*with* Fraiman, Ricardo; Yohai, Víctor J.) Qualitative robustness for stochastic processes. **89g:62049**
Casella, George Conditionally acceptable recentered set estimators. **89h:62052**
Cuevas, Antonio Qualitative robustness in abstract inference. **89h:62053**
Donoho, David L. (*with* Liu, Richard C.) The "automatic" robustness of minimum distance functionals. **89i:62051**
Fraiman, Ricardo *see* **Boente, Graciela; et al.**, **89g:62049**
Giri, N. C. *see* **Kariya, Takeaki; et al.**, **89c:62068**
Guttorp, Peter *see* **Ko, Daijin**, **89g:62050**
Hahn, G. J. *see* **Oppenlander, J. E.; et al.**, (Not in MR)
Hanousek, Jan Asymptotic relation of M- and P-estimators of location. **89h:62054**
He, Kun (*with* Zheng, Zhong Guo) A robust estimation method in a family of distributions with fuzzy tails. (Chinese. English summary) **89f:62032**
Jurečková, Jana (*with* Sen, Pranab Kumar) An extension of Billingsley's uniform boundedness theorem to higher-dimensional M-processes. **89j:62049**
Kappenman, Russell F. Detection of symmetry or lack of it and applications. (Not in MR)
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Kreiss, Jens-Peter On adaptive estimation in stationary ARMA processes. **89a:62081**
Leroy, Annick M. *see* **Rousseeuw, Peter J.**, **89e:62043**
Liu, Richard C. *see* **Donoho, David L.**, **89i:62051**
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Rousseeuw, Peter J. (*with* Leroy, Annick M.) ★ Robust regression and outlier detection. **89e:62043**
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Schmee, J. *see* **Oppenlander, J. E.; et al.**, (Not in MR)
Sen, Pranab Kumar *see* **Jurečková, Jana**, **89j:62049**
Sinha, Bimal Kumar *see* **Kariya, Takeaki; et al.**, **89c:62068**
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Tiku, M. L. (*with* Tan, W. Y.; Balakrishnan, N.) ★ Robust inference. **89g:62053**
Wiens, Douglas Robust weighted Cramér-von Mises estimators of location, with minimax variance in ε-contamination neighbourhoods. (French summary) **89a:62083**
Yohai, Víctor J. *see* **Boente, Graciela; et al.**, **89g:62049**
Zheng, Zhong Guo *see* **He, Kun**, **89f:62032**

Items with secondary classifications in 62F35

Aalto, Sergei K. Minimum variance simple function approximation. **89d:62024**
Antoch, Jaromír Variable selection in linear model based on trimmed least squares estimator. **89d:62055**
Balakrishnan, N. *see* **Tiku, M. L.**, **89c:62096**
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— *see also* **Simpson, Douglas G.; et al.**, **89b:62076**
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Cheng, Philip E. *see* **Cheng, Kuang Fu**, **89b:62131**
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Gurevich, V. A. Weighted M-estimates in nonlinear regression. **89i:62103**
Heyde, C. C. *see* **Kulkarni, P. M.**, **89h:62156**
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Lenth, Russell V. (*with* Green, Peter J.) Consistency of deviance-based M estimators. **89b:62072**
Li, Gao (*with* Madsen, Kaj) Robust nonlinear data fitting. **89h:65232**
Li, Guo Ying[1] Some properties of PP-type estimators for multivariate locations and dispersions. (Chinese summary) **89c:62089**
Liu, Richard C. *see* **Donoho, David L.**, **89e:62032**
Louis, Thomas A. *see* **De Gruttola, V.; et al.**, **89g:62100**
Madsen, Kaj *see* **Li, Gao**, **89h:65232**
Marazzi, A. Algorithms for the computation of weights in bounded influence regression. **89i:62064**
Nayak, Tapan Kumar Testing equality of conditionally independent exponential distributions. **89b:62057**
Pereira, C. A. de B. *see* **Bolfarine, Heleno; et al.**, **89c:62021**
Porteous, B. T. The mutual independence hypothesis for categorical data in complex sampling schemes. **89a:62136**
Portnoy, Stephen *see* **Koenker, Roger**, **89b:62142**
Rasch, Dieter Recent results in growth analysis. **89m:62063**
del Río, Manuel Cook statistic and diagnostics for transformations. **89g:62107**
Rodrigues, Josemar *see* **Bolfarine, Heleno; et al.**, **89c:62021**
Ronchetti, Elvezio Robust $C(\alpha)$-type test for linear models. **89h:62111**
Ross, William H. The geometry of case deletion and the assessment of influence in nonlinear regression. (French summary) **89h:62098**
Royall, R. M. *see* **Cumberland, W. G.**, **89e:62014**
Ruppert, David *see* **Simpson, Douglas G.; et al.**, **89b:62076**
Rychlik, T. Robust experimental design. A comment on Huber's result. **89e:62095**
Saleh, A. K. Md. Ehsanes *see* **Sen, Pranab Kumar**, **89a:62171**
Sen, Pranab Kumar (*with* Saleh, A. K. Md. Ehsanes) On preliminary test and shrinkage M-estimation in linear models. **89a:62171**
Shao, Jun (*with* Wu, C.-F. J.) Heteroscedasticity-robustness of jackknife variance estimators in linear models. **89g:62109**
Shapiro, Alexander (*with* Browne, Michael W.) Analysis of covariance structures under elliptical distributions. **89c:62088**
Simpson, Douglas G. (*with* Carroll, Raymond J.; Ruppert, David) M-estimation for discrete data: asymptotic distribution theory and implications. **89b:62076**
Tam, S. M. Some results on robust estimation in finite population sampling. **89j:62020**
Tanaka, Yutaka[1] Sensitivity analysis in principal component analysis: influence on the subspace spanned by principal components. **89i:62097**
Tiku, M. L. A robust procedure for testing an assumed value of the population correlation coefficient. **89a:62139**
— (*with* Balakrishnan, N.) Robust Hotelling-type T^2 statistics based on the modified maximum likelihood estimators. **89c:62096**
Tyler, David E. Some results on the existence, uniqueness, and computation of the M-estimates of multivariate location and scatter. **89b:62111**
van der Vaart, A. W. *see* **Klaassen, C. A. J.; et al.**, **89d:62029**
Ware, James H. *see* **De Gruttola, V.; et al.**, **89g:62100**
Welsh, A. H. *see* **Carroll, Raymond J.**, **89h:62099** *and* **de Jongh, P. J.; et al.**, **89k:62088**
de Wet, T. *see* **de Jongh, P. J.; et al.**, **89k:62088**
Wu, C.-F. J. *see* **Shao, Jun**, **89g:62109**
van Zwet, W. R. *see* **Klaassen, C: A. J.; et al.**, **89d:62029**

62F99 None of the above, but in this section

Awad, Adnan M. *see* **Shayib, Mohammed A.; et al., 89k:62048**

Barndorff-Nielsen, O. E. (*with* Jupp, P. E.) Differential geometry, profile likelihood, *L*-sufficiency and composite transformation models. **89h:62055**

Casals, M. R. *see* **Gil, María Angeles, 89m:62034**

Dawagreh, Ahmad M. *see* **Shayib, Mohammed A.; et al., 89k:62048**

Gil, María Angeles (*with* Casals, M. R.) An operative extension of the likelihood ratio test from fuzzy data. **89m:62034**

Jupp, P. E. *see* **Barndorff-Nielsen, O. E., 89h:62055**

Liang, Wên Ch'i Consistency of modified Fisher prediction function. **89a:62084**

Lu, Xuan Almost sure convergence of conditional risk of N-N prediction for unbounded random variables. (Chinese. English summary) **89a:62085**

Piet-Lahanier, Hélène *see* **Walter, Eric,** (Not in MR)

Shayib, Mohammed A. (*with* Awad, Adnan M.; Dawagreh, Ahmad M.) Large sample prediction intervals for a future sample mean: a comparative study. **89k:62048**

Walter, Eric (*with* Piet-Lahanier, Hélène) Estimation of the parameter uncertainty resulting from bounded-error data. (Not in MR)

Items with secondary classifications in 62F99

Bach, Alexander (*with* Plachky, D.; Thomsen, W.) A characterization of identifiability of mixtures of distributions. **89g:60128**

Dodson, C. T. J. Systems of connections for parametric models. **89m:53046**

Lehtinen, M. S. On statistical inversion theory. (*see* **89c:00029**)

Liu, Regina Y. (*with* Singh, Kesar) On a partial correction by the bootstrap. **89b:62097**

Norton, J. P. ★ An introduction to identification. **89e:93210**

Plachky, D. *see* **Bach, Alexander; et al., 89g:60128**

Singh, Kesar *see* **Liu, Regina Y., 89b:62097**

Teugels, J. L. On Pareto-type distributions. **89c:60018**

Thomsen, W. *see* **Bach, Alexander; et al., 89g:60128**

62Gxx Nonparametric inference

(Baille, Alain) *see* **Capéraà, Philippe, 89c:62069**

Capéraà, Philippe (*with* Van Cutsem, Bernard) ★ Méthodes et modèles en statistique non paramétrique. (French) [Methods and models in nonparametric statistics] **89c:62069**

Van Cutsem, Bernard *see* **Capéraà, Philippe, 89c:62069**

62G05 Estimation

Abdul-Al, Khaled I. On asymptotic properties of an estimate of a functional of a probability density. **89f:62035**

— Estimation of the derivatives of probability function and mode for uniform mixing process. **89k:62049**

Abdushukurov, A. A. Estimation of the probability density and intensity function in the Koziol-Green model of random censoring. (Russian) **89h:62056**

Ahmad, Manzoor *see* **Singh, Radhey S., 89e:62048**

Alekseev, V. G. Nonparametric estimates for curves and regression surfaces. **89k:62050**

Al-Hussaini, Ata N. (*with* Elliott, Robert J.) Comments on some estimates for the empirical distribution. **89i:62052**

Antille, André (*with* Milasevic, Philip) A confidence interval for the slope of a truncated regression. **89i:62053**

Atilgan, Taskin (*with* Leonard, Tom) On the application of AIC to bivariate density estimation, nonparametric regression and discrimination. **89a:62086**

Babu, Gutti Jogesh Estimation of density quantile function. **89h:62057**

— A note on comparison of conditional means. **89i:62054**

Baltrūnas, Jonas (*with* Rudzkienė, V.) Nonparametric estimation of nonlinear autoregression processes. I. Statistical properties of estimates. (Russian. Lithuanian summary) **89a:62087**

Barabás, B. Estimation of density functions by order statistics. **89a:62088**

Birgé, Lucien On the risk of histograms for estimating decreasing densities. **89a:62089**

Boente, Graciela (*with* Fraiman, Ricardo) Consistency of a nonparametric estimate of a density function for dependent variables. **89k:62051**

Bowman, Adrian W. *see* **Härdle, W., 89f:62040**

Brown, Bruce Maxwell (*with* Hettmansperger, T. P.) Affine invariant rank methods in the bivariate location model. **89d:62032**

Buadze, T. G. Some problems of the projection estimation of the density of a distribution. (Russian. English and Georgian summaries) **89a:62090**

Buckley, Michael James (*with* Eagleson, G. K.; Silverman, B. W.) The estimation of residual variance in nonparametric regression. **89i:62055**

Burke, Murray D. (*with* Csörgő, Sándor; Horváth, Lajos) A correction to and improvement of: "Strong approximations of some biometric estimates under random censorship" [Z. Wahrsch. Verw. Gebiete **56** (1981), no. 1, 87–112; MR 83a:62102]. **89h:62058**

Cabrera, Javier *see* **Hall, Peter; et al., 89g:62057**

Carlstein, E. Nonparametric change-point estimation. **89b:62079**

— Law of large numbers for the subseries values of a statistic from a stationary sequence. **89g:62054**

Carroll, Raymond J. (*with* Härdle, W.) Symmetrized nearest neighbor regression estimates. **89k:62052**

Chai, Gen Xiang (*with* Lu, Jiang) On the strong consistent conditions of the nearest neighbor density estimate in general kernel case. **89a:62091**

Chang, Myron N. (*with* Yang, Grace L.) Strong consistency of a nonparametric estimator of the survival function with doubly censored data. **89c:62070**

Chao, Min Te (*with* Lo, Shaw-Hwa) Some representations of the nonparametric maximum likelihood estimators with truncated data. **89e:62044**

Ch'ên, T'ien Wên (*with* Tin, Y. B.) Laguerre series estimate of a regression function. **89a:62092**

Cheng, Kuang Fu Nonparametric inference on the difference of location parameters of correlated variables from fragmentary samples. **89e:62045**

Cheng, Philip E. Hazard rate estimation under the simple proportional hazards model. **89h:62059**

(Chentsov, N. N.) *see* **Devroye, Luc, 89c:62071**

Chow, Yun Shyong Estimating trajectories. **89a:62093**

Ciesielski, Z. Nonparametric polynomial density estimation. **89i:62056**

Cline, Daren B. H. Admissible kernel estimators of a multivariate density. **89k:62053**

Collomb, Gérard Analyse d'une série temporelle et prédiction non paramétriques: méthodes de la fenêtre mobile et des *k* points les plus proches en estimation de régression pour des observations dépendantes. [Nonparametric time series analysis and prediction: the window and nearest-*k*-points methods in regression estimation for dependent observations] **89f:62036**

Cox, Dennis D. (*with* Koh, Eunmee; Wahba, Grace; Yandell, Brian S.) Testing the (parametric) null model hypothesis in (semiparametric) partial and generalized spline models. **89f:62037**

— Approximation of method of regularization estimators. **89f:62038**

Csörgő, Miklós (*with* Horváth, Lajos) Asymptotics for L_p-norms of kernel estimators of densities. **89d:62033**

Csörgő, Sándor *see* **Burke, Murray D.; et al., 89h:62058**

Dąbrowska, Dorota M. Nonparametric regression with censored survival time data. **89e:62046**

— (*with* Doksum, Kjell A.) Estimation and testing in a two-sample generalized odds-rate model. **89j:62050**

Deddens, J. (*with* Peligrad, Magda; Yang, Ting) On strong consistency of kernel estimators under dependence assumptions. **89h:62060**

Devroye, Luc (*with* Györfi, László) ★ Непараметрическое оценивание плотности. (Russian) [Nonparametric density estimation] **89c:62071**

— Asymptotic performance bounds for the kernel estimate. **89j:62051**

Diehl, Sabine (*with* Stute, Winfried) Kernel density and hazard function estimation in the presence of censoring. **89f:62039**

Dmitriev, Yu. G. (*with* Koshkin, G. M.) The use of additional information for the nonparametric estimation of density functionals. (Russian. English summary) **89a:62094**

Doksum, Kjell A. *see* **Dąbrowska, Dorota M., 89j:62050**

Donoho, David L. One-sided inference about functionals of a density. **89i:62057**

Eagleson, G. K. *see* **Buckley, Michael James; et al., 89i:62055**

Elliott, Robert J. *see* **Al-Hussaini, Ata N., 89i:62052**

Eubank, Randall L. ★ Spline smoothing and nonparametric regression. **89g:62055**

— Optimal grouping, spacing, stratification, and piecewise constant approximation. **89j:62052**

Fabian, Václav Polynomial estimation of regression functions with the supremum norm error. **89i:62058**

Feuerverger, Andrey Empirical saddlepoint convergence. **89b:62080**

Fraiman, Ricardo *see* **Boente, Graciela, 89k:62051**

Frees, Edward W. Correction: "Nonparametric renewal function estimation" [Ann. Statist. **14** (1986), no. 4, 1366–1378; MR 88b:62078]. **89i:62059**

Friedman, Yaakov (*with* Gelman, Alexander; Phadia, Eswar) Best invariant estimation of a distribution function under the Kolmogorov-Smirnov loss function. **89i:62060**

Gado, G. A. *see* **Hosni, A. K., 89m:62037**

Gao, Cheng Tai A new method for estimating the population distribution. (Chinese. English summary) **89m:62035**

Gelman, Alexander *see* **Friedman, Yaakov; et al., 89i:62060**

Georgiev, Alexander A. Consistent nonparametric multiple regression: the fixed design case. **89e:62047**

Gijbels, I. (*with* Veraverbeke, N.) Weak asymptotic representations for quantiles of the product-limit estimator. **89a:62095**

Gill, R. D. (*with* Vardi, Yehuda; Wellner, Jon A.) Large sample theory of empirical distributions in biased sampling models. **89i:62061**

Ginovyan, M. S. Asymptotically efficient nonparametric estimation of functionals from a spectral density with zeros. **89j:62053**

González Manteiga, W. (*with* Vilar Fernández, J. M.) A class of nonparametrically constructed parameter estimators for a stationary autoregressive model. **89k:62054**

Gu, Chong What happens when bootstrapping the smoothing spline? **89b:62081**

Györfi, László Density estimation from dependent sample. **89g:62056**

— *see also* **Devroye, Luc, 89c:62071**

Hall, Peter (*with* Watson, Geoffrey S.; Cabrera, Javier) Kernel density estimation with spherical data. **89g:62057**

— (*with* Marron, J. S.) Choice of kernel order in density estimation. **89j:62054**

— (*with* Wand, Matthew P.) Minimizing L_1 distance in nonparametric density estimation. **89m:62036**

— (*with* Martin, Michael A.) Exact convergence rate of bootstrap quantile variance estimator. **89k:62055**

— (*with* Wand, Matthew P.) On the minimization of absolute distance in kernel density estimation. **89g:62058**

— *see also* **Härdle, W.; et al., 89g:62060**

Hall, W. J. (*with* Huang, Wei-Min) Large deviations and estimation in infinite-dimensional models. **89g:62059**

Härdle, W. Efficient nonparametric smoothing in high dimensions using interactive graphical techniques. (*see* **89i:62004**)

— (*with* Tsybakov, A. B.) Robust nonparametric regression with simultaneous scale curve estimation. **89c:62072**

— (*with* Janssen, Paul; Serfling, R.) Strong uniform consistency rates for estimators of conditional functionals. **89i:62062**

— (*with* Bowman, Adrian W.) Bootstrapping in nonparametric regression: local adaptive smoothing and confidence bands. **89f:62040**

— (*with* Hall, Peter; Marron, J. S.) How far are automatically chosen regression smoothing parameters from their optimum? **89g:62060**

— *see also* **Carroll, Raymond J., 89k:62052**

Hettmansperger, T. P. *see* **Brown, Bruce Maxwell, 89d:62032**

Holst, U. Recursive estimation of quantiles using recursive kernel density estimators. **89b:62082**

Horváth, Lajos *see* **Csörgő, Miklós, 89d:62033** *and* **Burke, Murray D.; et al., 89h:62058**

Hosni, A. K. (*with* Gado, G. A.) Mean integrated square error of a recursive estimators [estimator] of a probability density. **89m:62037**
Hu, Tien Chung *see* **Taylor, Robert Lee, 89h:62070**
Huang, Wei-Min *see* **Hall, W. J., 89g:62059**
Hülsmann, Jochen L_1-norm Schätzung der Verteilungsfunktion. [L_1-norm estimation of the distribution function] **89k:62056**
Ignatov, Tsvetan G. (*with* Kaishev, Vladimir K.) Multivariate B-splines, analysis of contingency tables and serial correlation. **89g:62061**
Ioannides, D. (*with* Roussas, G. G.) Note on the uniform convergence of density estimates for mixing random variables. **89b:62083**
Janssen, Paul *see* **Härdle, W.; et al., 89i:62062**
Jaura, J. *see* **Tempel'man, A. A., 89k:62057**
Joe, Harry Estimation of quantiles of the maximum of N observations. **89a:62096**
(Johnstone, Iain) *see* **Härdle, W.; et al., 89g:62060**
Jurečková, Jana (*with* Portnoy, Stephen) Asymptotics for one-step M-estimators in regression with application to combining efficiency and high breakdown point. **89a:62097**
Kaishev, Vladimir K. *see* **Ignatov, Tsvetan G., 89g:62061**
Kanazawa, Yuichiro An optimal variable cell histogram. **89i:62063**
Kazbaras, A. An adaptive projection estimator for the density of a distribution. (Russian. English and Lithuanian summaries) **89c:62073**
Khanin, A. G. *see* **Turbin, A. F., 89g:62067**
Khashimov, Sh. A. (*with* Muminov, M. S.) The limit distribution of maximal deviations of spline-estimates of a probability density. (Russian) **89h:62061**
— Asymptotic properties of statistical kernel estimates for densities of distributions. (Russian) **89a:62098**
— Limit distribution of integral statistics that are connected with nonparametric estimates of a probability distribution and a regression curve. (Russian) **89h:62062**
Koh, Eunmee *see* **Cox, Dennis D.; et al., 89f:62037**
Koronacki, Jacek (*with* Wertz, Wolfgang) A global stopping rule for recursive density estimators. **89j:62055**
Korostelëv, A. P. Asymptotically efficient recurrent estimation of a nonparametric signal. **89h:62063**
— Recurrent nonparametric estimation based on the observation of the path of a process with independent increments. **89m:62038**
Koshevnik, Yu. A. Asymptotic distribution of nonparametric estimates of distribution functions under a symmetry condition. **89m:62039**
Koshkin, G. M. *see* **Dmitriev, Yu. G., 89a:62094**
Koul, Hira L. (*with* Sievers, Gerald L.; McKean, Joseph) An estimator of the scale parameter for the rank analysis of linear models under general score functions. **89a:62099**
Kukhaleishvili, R. È. Some asymptotic properties of nonparametric estimates for a regression curve. (Russian. English and Georgian summaries) **89b:62084**
Kumazawa, Yoshiki A note on an estimator of life expectancy with random censorship. **89a:62100**
Lecoutre, Jean-Pierre The histogram with random partition. **89c:62074**
Leonard, Tom *see* **Atilgan, Taskin, 89a:62086**
Li, Wai Kee *see* **Mak, Tak K., 89h:62064**
Lio, Y. L. (*with* Padgett, W. J.) A modified kernel quantile estimator under censoring. (French summary) **89m:62040**
Lo, Shaw-Hwa *see* **Chao, Min Te, 89e:62044**
Lu, Jiang *see* **Chai, Gen Xiang, 89a:62091**
Maĭboroda, R. E. Estimation of a moment-generating function from observations with error. (Russian) **89j:62056**
Mak, Tak K. (*with* Li, Wai Kee) A new method for estimating subgroup means under misclassification. **89h:62064**
(Malyutov, M. B.) *see* **Devroye, Luc, 89c:62071**
Marazzi, A. Algorithms for the computation of weights in bounded influence regression. **89i:62064**
Marron, J. S. *see* **Härdle, W.; et al., 89g:62060** *and* **Hall, Peter, 89j:62054**
Martin, Michael A. *see* **Hall, Peter, 89k:62055**
McKeague, Ian W. A counting process approach to the regression analysis of grouped survival data. **89i:62065**
McKean, Joseph *see* **Koul, Hira L.; et al., 89a:62099**
McNichols, Diane T. (*with* Padgett, W. J.) Mean and variance of a kernel density estimator under the Koziol-Green model of random censorship. **89c:62075**
Melyaeva, O. An estimate for the rate of convergence for mean square measures of the quality of kernel estimates for a probability density. (Russian) **89h:62065**
Miao, Bai Qi (*with* Zhao, Lin Cheng) Detection of change points using rank methods. **89h:62066**
Milasevic, Philip *see* **Antille, André, 89i:62053**
Miura, Ryōzō Outlook and present state of nonparametric inference—amidst some conjectures. (Japanese) **89b:62085**
Mukerjee, Hari Monotone nonparameteric regression. **89h:62067**
Muminov, M. S. *see* **Khashimov, Sh. A., 89h:62061**
Onishchenko, V. F. (*with* Tsybakov, A. B.) Asymptotic normality of M-estimates. (Russian. English summary) **89b:62086**
O'Sullivan, Finbarr Fast computation of fully automated log-density and log-hazard estimators. **89g:62062**
Padgett, W. J. *see* **McNichols, Diane T., 89c:62075** *and* **Lio, Y. L., 89m:62040**
Peligrad, Magda *see* **Deddens, J.; et al., 89h:62060**
Pfanzagl, J. Consistency of maximum likelihood estimators for certain nonparametric families, in particular: mixtures. **89g:62063**
Phadia, Eswar *see* **Friedman, Yaakov; et al., 89i:62060**
Portnoy, Stephen *see* **Jurečková, Jana, 89a:62097**
Prentice, Ross L. *see* **Self, Steven G., 89h:62068**
Rachev, S. T. *see* **Yakovlev, A. Yu., 89i:62068**
Rahmania, Nadji Convergence uniforme presque complète du régressogramme pour des observations dépendantes et non nécessairement équidistribuées. (English summary) [Almost complete uniform convergence of the regressogram for not necessarily identically distributed dependent observations] **89a:62101**
Robinson, P. M. Root-N-consistent semiparametric regression. **89j:62057**
Roussas, G. G. *see* **Ioannides, D., 89b:62083**
Rudzkienė, V. *see* **Baltrūnas, Jonas, 89a:62087**
Rüschendorf, L. Unbiased estimation and local structure. **89j:62058**
Sager, Thomas W. Dimensionality reduction in density estimation. **89a:62102**
— *see also* **Stokes, S. Lynne, 89i:62066**
Sarda, Pascal (*with* Vieu, Philippe) Vitesses de convergence d'estimateurs non-paramétriques d'une régression et de ses dérivées. (English summary) [Rates of convergence in nonparametric estimation of a regression and its derivatives] **89b:62087**
Schick, A. (*with* Susarla, V.) Efficient estimation in some missing data problems. **89m:62041**
Scott, David W. (*with* Terrell, George R.) Biased and unbiased cross-validation in density estimation. **89a:62103**
— *see also* **Härdle, W.; et al., 89g:62060**
Sedunova, E. A. Optimization of a nonparametric kernel-type estimate for regression in an active experiment. (Russian. English summary) **89a:62104**
Self, Steven G. (*with* Prentice, Ross L.) Asymptotic distribution theory and efficiency results for case-cohort studies. **89h:62068**
Serfling, R. *see* **Härdle, W.; et al., 89i:62062**
Sheahan, J. N. Robust estimation of regression and scale parameters in linear models with asymmetric error distributions. **89a:62105**
Sievers, Gerald L. *see* **Koul, Hira L.; et al., 89a:62099**
Silverman, B. W. *see* **Buckley, Michael James; et al., 89i:62055**
Simonova, G. I. Estimation of a translation parameter with the help of order statistics. **89m:62042**
Singh, Radhey S. (*with* Ahmad, Manzoor) Modified nonparametric kernel estimates of a regression function and their consistencies with rates. **89e:62048**
Solodyannikov, Yu. V. Robust nonparametric estimation of the characteristics of queueing systems. **89g:62064**
Srivastava, M. S. Bootstrapping Durbin-Watson statistic. **89b:62088**
Stokes, S. Lynne (*with* Sager, Thomas W.) Characterization of a ranked-set sample with application to estimating distribution functions. **89i:62066**
Stone, Charles J. A nonparametric framework for statistical modelling. **89d:62034**
Stute, Winfried Empirische Prozesse in der Datenanalyse. [Empirical processes in data analysis] **89j:62059**
— *see also* **Diehl, Sabine, 89f:62039**
Sun, Dong Chu A law of the iterated logarithm for nonparametric conditional density estimators. **89b:62089**
— Necessary conditions of L_1-convergence of kernel regression estimators. **89a:62106**
Susarla, V. *see* **Schick, A., 89m:62041**
Suzuki, Takeru On the second order efficiency of bootstrap estimators of sampling distributions. **89h:62069**
Takahata, Hiroshi (*with* Yoshihara, Ken-ichi) Central limit theorems for integrated square error of nonparametric density estimators based on absolutely regular random sequences. **89g:62065**
Taylor, Robert Lee (*with* Hu, Tien Chung) Consistency of kernel density estimators and laws of large numbers in $C_0(\mathbf{R})$. **89h:62070**
Tempel'man, A. A. (*with* Jaura, J.) Admissibility of a nonparametric analogue of the Pitman estimator in the case of one unknown parameter. **89k:62057**
Terrell, George R. *see* **Scott, David W., 89a:62103**
Tikhov, M. S. Statistical analysis of grouped and censored observations. **89m:62043**
Tin, Y. B. *see* **Ch'ên, T'ien Wên, 89a:62092**
Titterington, D. M. Common structure of smoothing techniques in statistics. (French summary) **89h:62071**
Tiwari, Ram C. Convergence of Dirichlet invariant measures and the limits of Bayes estimates. **89g:62066**
Tsybakov, A. B. *see* **Onishchenko, V. F., 89b:62086; Härdle, W., 89c:62072** *and* **Devroye, Luc, 89c:62071**
Tu, Dong Sheng The kernel estimates of the conditional L-functional and their bootstrapping statistics. (Chinese. English summary) **89h:62072**
Turbin, A. F. (*with* Khanin, A. G.) Asymptotic properties of S-statistics. (Russian. English summary) **89g:62067**
van der Vaart, A. W. ★ Statistical estimation in large parameter spaces. **89e:62049**
(Vapnik, V. N.) *see* **Devroye, Luc, 89c:62071**
Vardi, Yehuda *see* **Gill, R. D.; et al., 89i:62061**
Veraverbeke, N. *see* **Gijbels, I., 89a:62095**
Vieu, Philippe *see* **Sarda, Pascal, 89b:62087**
Vilar Fernández, J. M. *see* **González Manteiga, W., 89k:62054**
Volf, P. Estimation in linear model with censored data. **89i:62067**
Wahba, Grace *see* **Cox, Dennis D.; et al., 89f:62037**
Wand, Matthew P. *see* **Hall, Peter, 89g:62058** *and* **89m:62036**
Wang, Mei Cheng Product limit estimates: a generalized maximum likelihood study. **89c:62076**
Watson, Geoffrey S. *see* **Hall, Peter; et al., 89g:62057**
Wellner, Jon A. *see* **Gill, R. D.; et al., 89i:62061**
Welsh, A. H. Kernel estimates of the sparsity function. **89h:62074**
— Asymptotically efficient estimation of the sparsity function at a point. **89h:62073**
Wertz, Wolfgang *see* **Koronacki, Jacek, 89j:62055**
Yakovlev, A. Yu. (*with* Rachev, S. T.) Bounds for crude survival probabilities within competing risks framework and their statistical application. **89i:62068**
Yandell, Brian S. *see* **Cox, Dennis D.; et al., 89f:62037**
Yang, Grace L. *see* **Chang, Myron N., 89c:62070**
Yang, Ting *see* **Deddens, J.; et al., 89h:62060**
Yatracos, Yannis G. A lower bound on the error in nonparametric regression type problems. **89h:62075**
Yoshihara, Ken-ichi *see* **Takahata, Hiroshi, 89g:62065**
Yurovskiĭ, A. Yu. Asymptotic representations for the second moments of spectral density estimators. (Russian) **89b:62090**
Zhao, Jiang Convergence rates for multivariate Priestly-Chao estimators and their derivatives. (Chinese. English summary) **89m:62044**
Zhao, Lin Cheng *see* **Miao, Bai Qi, 89h:62066**

Zheng, Zu Kang Strong uniform consistency for density estimator from randomly censored data. **89k:62058**
— Strong consistency of nonparametric regression estimates with censored data. **89h:62076**
Zieliński, Ryszard Stable estimation of location parameter—nonasymptotic approach. **89f:62041**

Items with secondary classifications in 62G05

(Adler, Yu. P.) *see* **Vuchkov, I.; et al., 89f:62058**
Aladzhem, Maĭer E. A nonparametric method for determining informative features in pattern recognition. (Bulgarian. English and Russian summaries) **89d:68075**
Arsham, H. Nonparametric reliability estimation based on a few ordered observations. **89i:62162**
Barraj, L. M. *see* **Lagakos, S. W.; et al., 89i:62175**
Barry, Daniel Nonparametric Bayesian regression. **89a:62149**
(Bass, Jean) *see* **Vo Khac, Khoan, 89k:62001**
Beder, Jay H. A sieve estimator for the covariance of a Gaussian process. **89f:62073**
Beran, Rudolf (*with* Le Cam, L.; Millar, P. W.) Convergence of stochastic empirical measures. **89a:62045**
Biswas, Suddhendu (*with* Noor, Hamed Saad) Generalized age-dependent model for estimation of mean survival time in the presence of two competing risks. **89m:62111**
(Boyadzhiev, D. I.) *see* **Vuchkov, I.; et al., 89f:62058**
Boyadzhieva, L. *see* **Vuchkov, I.; et al., 89f:62058**
Bulinskiĭ, A. V. (*with* Doukhan, Paul) Inégalités de mélange fort utilisant des normes d'Orlicz. (English summary) [Strong mixing moment inequalities using Orlicz norms] **89b:60017**
Burman, Prabir Smoothing sparse contingency tables. **89a:62134**
Csörgő, Miklós (*with* Csörgő, Sándor) Estimation of percentile residual life. **89d:62104**
— (*with* Horváth, Lajos) Central limit theorems for L_p-norms of density estimators. **89i:60046**
Csörgő, Sándor *see* **Csörgő, Miklós, 89d:62104**
De Gruttola, V. *see* **Lagakos, S. W.; et al., 89i:62175**
Doukhan, Paul *see* **Bulinskiĭ, A. V., 89b:60017**
Gadh, R. *see* **Pope, S. B., 89e:62002**
Ghorai, J. K. (*with* Rejtő, L.) Estimation of mean residual life with censored data under the proportional hazard model. **89b:62205**
Gusak, P. P. (*with* Sorkin, L. R.) Minimax function approximation by noisy observations under nonparametric uncertainty. (Russian summary) **89e:93207**
Hall, Peter On the bootstrap and likelihood-based confidence regions. **89h:62084**
— Rate of convergence in bootstrap approximations. **89k:60027**
Horváth, Lajos (*with* Yandell, Brian S.) Convergence rates for the bootstrapped product-limit process. **89b:62046**
— *see also* **Csörgő, Miklós, 89i:60046**
Klaassen, C. A. J. Consistent estimation of the influence function of locally asymptotically linear estimators. **89e:62022**
Lagakos, S. W. (*with* Barraj, L. M.; De Gruttola, V.) Nonparametric analysis of truncated survival data, with applications to AIDS. **89i:62175**
Le Cam, L. *see* **Beran, Rudolf; et al., 89a:62045**
Leśkow, Jacek Estimation of the periodic function in the multiplicative intensity model. **89b:62184**
Li, Ker-Chau Asymptotic optimality for C_p, C_L, cross-validation and generalized cross-validation: discrete index set. **89c:62112**
Madan, Dilip B. (*with* Seneta, E.) Simulation of estimates using the empirical characteristic function. (French summary) **89g:62042**
Major, P. (*with* Rejtő, L.) Strong embedding of the estimator of the distribution function under random censorship. **89k:60045**
McNichols, Diane T. (*with* Padgett, W. J.) Inference for step-stress accelerated life tests under arbitrary right-censorship. **89k:62124**
Millar, P. W. *see* **Beran, Rudolf; et al., 89a:62045**
Miller, John J. (*with* Wegman, E. J.) Vector function estimation using splines. **89a:41012**
Müller, Hans-Georg ★ Nonparametric regression analysis of longitudinal data. **89i:62003**
— (*with* Schmitt, Thomas^2) Kernel and probit estimates in quantal bioassay. **89h:62170**
Noor, Hamed Saad *see* **Biswas, Suddhendu, 89m:62111**
O'Sullivan, Finbarr Nonparametric estimation of relative risk using splines and cross-validation. **89e:62132**
Padgett, W. J. *see* **McNichols, Diane T., 89k:62124**
Phelan, Michael J. (*with* Prabhu, N. U.) Nonparametric estimation from queues arising in staggered entry clinical trials. **89j:62140**
Piterbarg, L. I. Nonparametric estimation of a signal on background noise with sharp peaks. **89i:62158**
Plachky, D. Conservation of properties of optimality of some statistical tests and point estimators under extensions of distributions. **89b:62073**
Pope, S. B. (*with* Gadh, R.) Fitting noisy data using cross-validated cubic smoothing splines. **89e:62002**
Prabhu, N. U. *see* **Phelan, Michael J., 89j:62140**
Rao, Calyampuli Radhakrishna Prediction of future observations in growth curve models. **89j:62045**
Rejtő, L. *see* **Ghorai, J. K., 89b:62205** *and* **Major, P., 89k:60045**
Rivest, Louis-Paul A new scale step for Huber's M-estimators in multiple regression. **89e:62042**
Samaniego, Francisco J. (*with* Whitaker, Lyn R.) On estimating population characteristics from record-breaking observations. II. Nonparametric results. **89b:62206**
Schmitt, Thomas^2 *see* **Müller, Hans-Georg, 89h:62170**
Sen, Pranab Kumar Functional jackknifing: rationality and general asymptotics. **89b:62048**
Seneta, E. *see* **Madan, Dilip B., 89g:62042**
Shi, Xi Quan Jackknifing and bootstrapping generalized U-statistics. **89i:62029**
Solakov, E. *see* **Vuchkov, I.; et al., 89f:62058**
Sorkin, L. R. *see* **Gusak, P. P., 89e:93207**
Takahashi, Hajime A note on Edgeworth expansion for the von Mises functionals. **89b:62049**
Titterington, D. M. Regularisation procedures in signal processing and statistics. (*see* **89b:94004**)
Tu, Dong Sheng (*with* Zheng, Zhong Guo) The Edgeworth expansion for the random weighting method. (Chinese. English summary) **89e:62024**
van der Vaart, A. W. Estimating a real parameter in a class of semiparametric models. **89m:62032**
Vardi, Yehuda Statistical models for intercepted data. **89i:62041**
Vo Khac, Khoan ★ Estimation et tests paramétriques et non paramétriques. (French) [Parametric and nonparametric estimation and tests] **89k:62001**
Volf, P. Estimation of the mean from randomly censored data. (Russian summary) **89a:62212**
Vuchkov, I. (*with* Boyadzhieva, L.; Solakov, E.) ★ Прикладной линейный регрессионный анализ. (Russian) [Applied linear regression analysis] **89f:62058**
Wang, Chamont W. H. A minimum distance estimator for first-order autoregressive processes. **89a:62201**
Wang, Jane-Ling Estimators of a distribution function with increasing failure rate average. **89c:62181**
Wegman, E. J. *see* **Miller, John J., 89a:41012**
Whitaker, Lyn R. *see* **Samaniego, Francisco J., 89b:62206**
Yandell, Brian S. Block diagonal smoothing splines. **89a:62172**
— *see also* **Horváth, Lajos, 89b:62046**
Yang, Shie-Shien On bootstrapping a class of differentiable statistical functionals with applications to L- and M-estimates. **89c:62082**
Zhao, Lin Cheng An inequality concerning the deviation between theoretical and empirical distributions. **89i:60038**
Zheng, Zhong Guo *see* **Tu, Dong Sheng, 89e:62024**

62G10 Hypothesis testing

Achcar, Jorge A. (*with* Diniz, Carlos Alberto R.) Comparison of two treatments with censured and transformed survival data for an extreme value distribution. (Portuguese. English summary) (Not in MR)
Aki, Sigeo On nonparametric tests for symmetry. **89i:62069**
Akritas, Michael G. Rank tests with interval-censored data. **89j:62060**
— Pearson-type goodness-of-fit tests: the univariate case. **89h:62077**
Albers, Willem Rank tests for regression and k-sample rank tests under random censorship. **89c:62077**
Bagai, Isha *see* **Kusum, Kalpana, 89j:62066**
Bajorski, Piotr (*with* Ledwina, Teresa) Large deviations and Bahadur efficiency of some rank tests of independence. **89h:62078**
Bell, C. B. (*with* Mason, Andrew L.) Nuisance parameters; goodness-of-fit problems, and Kolmogorov-type statistics. **89g:62068**
Bentkus, Vidmantas-Kastytis Jurgio (*with* Zitikis, Ričardas) A remark on the Cramér-von Mises-Smirnov test. **89k:62059**
Berger, Roger L. A nonparametric, intersection-union test for stochastic order. **89f:62042**
Boik, Robert J. The Fisher-Pitman permutation test: a nonrobust alternative to the normal theory F test when variances are heterogeneous. **89i:62070**
Bondarev, B. V. On testing composite statistical hypotheses. II. (Russian) **89k:62060**
— The Kolmogorov statistic in the case of a piecewise continuous distribution function. **89g:62069**
Brown, Bruce Maxwell (*with* Hettmansperger, T. P.) Invariant tests in bivariate models and the L_1 criterion. **89j:62061**
Brunner, E. (*with* Neumann, N.) Nonparametric methods for the 2-period-cross-over design under weak model assumptions. (German summary) **89c:62078**
Burke, Murray D. (*with* Gombay, Edit) On goodness-of-fit and the bootstrap. **89f:62043**
Burnett, Richard T. (*with* Willan, Andrew R.) Linear rank tests for randomized block designs. **89e:62050**
Chakraborti, S. (*with* Desu, M. M.) A class of distribution-free tests for testing homogeneity against ordered alternatives. **89j:62062**
Chernomordik, O. M. Nonparametric criteria for testing the homogeneity of some samples. (Russian) **89b:62091**
Cohen, Jonathan P. (*with* Menjoge, Shailendra S.) One-sample run tests of symmetry. **89a:62107**
Damianou, Charalambos Goodness-of-fit test statistics based on Riedwyl-type deviations. (Not in MR)
— Analogies between Riedwyl-type and linear rank test statistics. **89e:62051**
Desu, M. M. *see* **Chakraborti, S., 89j:62062**
Diniz, Carlos Alberto R. *see* **Achcar, Jorge A.**, (Not in MR)
Edgeman, Rick L. (*with* Scott, Robert C.; Pavur, Robert) A modified Kolmogorov-Smirnov test for the inverse Gaussian density with unknown parameters. (Not in MR)
Engel, Jan Rank tests and random blocking of classified data. **89j:62063**
Ermakov, M. S. Asymptotically minimax criteria for testing nonparametric hypotheses on the density of a distribution. (Russian. English summary) **89k:62061**
Franklin, L. A. A note on approximations and convergence in distribution for Spearman's rank correlation coefficient. **89i:62071**
Friedman, Yaakov (*with* Gelman, Alexander; Phadia, Eswar) A modified Kolmogorov-Smirnov type goodness of fit test. (Not in MR)
Froda, Sorana A signed rank test for censored paired lifetimes. **89a:62108**
Gelman, Alexander *see* **Friedman, Yaakov; et al.**, (Not in MR)
Ghosh, Sankar On a recursion-relation which arises in a statistical context. **89i:62072**
Gombay, Edit *see* **Burke, Murray D., 89f:62043**
Govindarajulu, Z. *see* **Shetty, I. D., 89e:62054**
Gray, Robert J. A class of K-sample tests for comparing the cumulative incidence of a competing risk. **89h:62079**
Guilbaud, Olivier Exact Kolmogorov-type tests for left-truncated and/or right-censored data. **89h:62080**
Haux, R. (*with* Mattauch, V.; Weckesser, G.) Correction to: "Rank tests for the 2 × 2 design with I blocks" [Biometrical J. 29 (1987), no. 5, 507–524; MR 88i:62075]. **89j:62064**
Hettmansperger, T. P. *see* **Brown, Bruce Maxwell, 89j:62061**

Hüsler, Jürg (*with* Riedwyl, H.) Comparison of the efficiency of nonparametric location tests based on grouped and individual data. **89k:62062**
Ishiguro, Makio *see* **Sakamoto, Yosiyuki**, (Not in MR)
Jammalamadaka, S. Rao (*with* Tiwari, Ram C.) Efficiencies of some disjoint spacings tests relative to a χ^2 test. **89a:62109**
Janssen, Arnold Locally most powerful rank tests. **89j:62065**
Jupp, P. E. A nonparametric correlation coefficient and a two-sample test for random vectors or directions. **89a:62110**
Khan, Masood Amjad Small sample comparison of X^2, B, G and FT goodness of fit test. I, II. (Not in MR)
Khmaladze, È. V. An innovation approach to goodness-of-fit tests in $\mathbf{R}^m$. **89i:62073**
Koppen, M. G. M. (*with* Verhelst, N. D.) The exact runs test and some large sample approximations. **89h:62081**
Kusum, Kalpana (*with* Bagai, Isha) A new class of distribution free procedures for testing homogeneity of scale parameters against ordered alternatives. **89j:62066**
Le, Chap T. A new rank test against ordered alternatives in K-sample problems. (Not in MR)
Ledwina, Teresa An expansion of the index of large deviations for linear rank statistics. **89b:62092**
— *see also* **Bajorski, Piotr**, **89h:62078**
Léon R., José Rafael (*with* Olivares, M. M.) Correction: "Two parameter Brownian bridge and linear rank statistics for independence" [Acta Cient. Venezolana **36** (1985), no. 5-6, 295–302; MR 88c:62073]. (Spanish. English summary) **89g:62070**
Lin′kov, Yu. N. Characterization of types of asymptotic discernibility of families of hypotheses. (Russian) **89a:62111**
Linnet, Kristian Testing normality of transformed data. (Not in MR)
Luong, A. (*with* Thompson, M. E.) Minimum-distance methods based on quadratic distances for transforms. (French summary) **89g:62071**
Maesono, Yoshihiko Competitors of the Wilcoxon signed rank test. **89a:62112**
Markowski, Edward P. A characterization of some locally most powerful rank tests. **89g:62072**
Mason, Andrew L. *see* **Bell, C. B.**, **89g:62068**
Mattauch, V. *see* **Haux, R.; et al.**, **89j:62064**
Mau, Jochen A generalization of a nonparametric test for stochastically ordered distributions to censored survival data. **89i:62074**
McCullagh, Peter On the asymptotic distribution of Pearson's statistic in linear exponential-family models. (French summary) **89e:62052**
Mehta, C. R. (*with* Patel, Nitin R.; Senchaudhuri, P.) Exact nonparametric significance tests. (*see* **89i:62004**)
Mendelson, Haim Testing quantile-preserving spreads. **89h:62082**
Menjoge, Shailendra S. *see* **Cohen, Jonathan P.**, **89a:62107**
Mielke, P. W., Jr. (*with* Yao, Y.-C.) A class of multiple sample tests based on empirical coverages. **89m:62045**
Mussmann, Dieter On a characterization of monotone likelihood ratio experiments. **89i:62075**
Nabeya, Seiji On Aki's nonparametric test for symmetry. **89d:62035**
Neuhaus, Georg Local asymptotics for linear rank statistics with estimated score functions. **89e:62053a**
— Addendum to: "Local asymptotics for linear rank statistics with estimated score functions". **89e:62053b**
Neumann, N. *see* **Brunner, E.**, **89c:62078**
Nikitin, Ya. Yu. Large deviations and asymptotic efficiency of integral statistics for a test of independence. (Russian) **89b:62093**
Olivares, M. M. *see* **Léon R., José Rafael**, **89g:62070**
Öztürk, Aydın On a test statistic for testing normality. (Not in MR)
Patel, Nitin R. *see* **Mehta, C. R.; et al.**, (**89i:62004**)
Pavur, Robert *see* **Edgeman, Rick L.; et al.**, (Not in MR)
Phadia, Eswar *see* **Friedman, Yaakov; et al.**, (Not in MR)
van Putten, B. On the construction of multivariate permutation tests in the two-sample case. **89a:62113**
Riedwyl, H. *see* **Hüsler, Jürg**, **89k:62062**
Röhmel, J. *see* **Streitberg, B.**, **89a:62115**
Romano, Joseph P. A bootstrap revival of some nonparametric distance tests. **89i:62076**
Ronzhin, A. F. Goodness-of-fit tests for generalized urn models based on decomposable statistics. **89d:62036**
Rosenbaum, Paul R. Permutation tests for matched pairs with adjustments for covariates. (Not in MR)
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Sakamoto, Yosiyuki (*with* Ishiguro, Makio) A Bayesian approach to nonparametric test problems. (Not in MR)
Samanta, M. (*with* Schwarz, C. J.) The Shapiro-Wilk test for exponentiality based on censored data. (Not in MR)
Sarkadi, K. On the asymptotic behavior of the Shapiro-Wilk test. **89d:62037**
Schechtman, Edna (*with* Wolfe, Douglas A.) Distribution-free tests for the changepoint problem. **89i:62077**
Schick, A. (*with* Susarla, V.) A k-sample problem with censored data. **89a:62114**
Schwarz, C. J. *see* **Samanta, M.**, (Not in MR)
Scott, Robert C. *see* **Edgeman, Rick L.; et al.**, (Not in MR)
Sen, Pranab Kumar *see* **Servy, Elsa Clotilde**, **89c:62079**
Senchaudhuri, P. *see* **Mehta, C. R.; et al.**, (**89i:62004**)
Servy, Elsa Clotilde (*with* Sen, Pranab Kumar) Missing variables in multisample rank permutation tests for MANOVA and MANOCOVA. **89c:62079**
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Shirahata, Shingo A generalization of Moses rank test. (Not in MR)
Shiraishi, Taka-aki Rank tests for ordered location-scale alternatives. **89j:62067**
Sinclair, C. D. *see* **Spurr, B. D.**, (Not in MR)
Smit, C. F. (*with* Swart, N. G. N.; Stoker, D. J.) Weighted combinations of rank tests for location-scale alternatives. **89b:62094**
Spurr, B. D. (*with* Sinclair, C. D.) A general formula for the upper tail significance levels of empirical distribution function test statistics. (Not in MR)
Stoker, D. J. *see* **Smit, C. F.; et al.**, **89b:62094**
Streitberg, B. (*with* Röhmel, J.) Exact nonparametrics for partial order tests. **89a:62115**
Susarla, V. *see* **Schick, A.**, **89a:62114**
Swart, N. G. N. *see* **Smit, C. F.; et al.**, **89b:62094**
Thompson, M. E. *see* **Luong, A.**, **89g:62071**
Timonin, V. I. On the limit distribution of a statistic of a nonparametric test. (Russian) **89m:62046**
Tiwari, Ram C. *see* **Jammalamadaka, S. Rao**, **89a:62109**
Tripathi, R. C. Two sample nonparametric procedures under random right censoring—a review. **89g:62073**
Verhelst, N. D. *see* **Koppen, M. G. M.**, **89h:62081**
Weckesser, G. *see* **Haux, R.; et al.**, **89j:62064**
Wefelmeyer, Wolfgang Testing hypotheses on independent, not identically distributed models. **89b:62095**
de Wet, T. Degenerate U- and V-statistics. **89b:62096**
Willan, Andrew R. *see* **Burnett, Richard T.**, **89e:62050**
Wolfe, Douglas A. *see* **Schechtman, Edna**, **89i:62077**
Yao, Y.-C. *see* **Mielke, P. W., Jr.**, **89m:62045**
Young, Alastair Conditioned data-based simulations: some examples from geometrical statistics. (French summary) **89f:62044**
— Resampling tests of statistical hypotheses. (*see* **89i:62004**)
Zitikis, Ričardas *see* **Bentkus, Vidmantas-Kastytis Jurgio**, **89k:62059**

Items with secondary classifications in 62G10

(Bass, Jean) *see* **Vo Khac, Khoan**, **89k:62001**
Bass, R. F. Probability estimates for multiparameter Brownian processes. **89b:60103**
Beirlant, Jan Limit theory for spacing statistics from general univariate distributions. **89a:62044**
Beran, Rudolf Prepivoting test statistics: a bootstrap view of asymptotic refinements. **89k:62028**
Berry, Steven (*with* Briggs, Hugh) A nonparametric test of a first-order Markov process for regimes in a noncooperatively collusive industry. **89i:62139**
Briggs, Hugh *see* **Berry, Steven**, **89i:62139**
Brown, Bruce Maxwell (*with* Hettmansperger, T. P.) Affine invariant rank methods in the bivariate location model. **89d:62032**
Byambazhav, D. Estimates for the rate of convergence of the two-sided Smirnov test. (Russian) **89b:62045**
Capéraà, Philippe Tail ordering and asymptotic efficiency of rank tests. **89a:62117**
Conover, William J. (*with* Salsburg, David S.) Locally most powerful tests for detecting treatment effects when only a subset of patients can be expected to "respond" to treatment. (French summary) **89g:62161**
(Costello, Patricia S.) *see* **David, H. A.**, (Not in MR)
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— (*with* Puri, Madan L.) Asymptotic behavior of multiresponse permutation procedures. **89e:60075**
Draper, David Rank based robust analysis of linear models. I. Exposition and review. **89i:62106**
Drost, F. C. A limit theorem for some modified chi-square statistics when the number of classes increases. **89c:62040**
Dufour, Jean-Marie (*with* Hallin, Marc) Tests non paramétriques optimaux pour le modèle autorégressif d'ordre un. (English summary) [Optimal nonparametric tests for a first-order autoregressive model] **89b:62187**
Eger, Karl-Heinz (*with* Wunderlich, Ralf) Sequentielle Tests bei klassifizierten Beobachtungen. [Sequential tests in classified observations] **89m:62093**
Hallin, Marc (*with* Puri, Madan L.) Locally asymptotically rank-based procedures for testing autoregressive moving average dependence. **89e:62119**
— *see also* **Dufour, Jean-Marie**, **89b:62187**
Harel, Michel Weak convergence of multidimensional rank statistics under φ-mixing conditions. **89m:60014**
Hatada, Kazuyuki Chi-square tests for mod 1 distribution of Fermat and Fibonacci quotients. **89d:11105**
Henze, N. A multivariate two-sample test based on the number of nearest neighbor type coincidences. **89g:62083**
Hettmansperger, T. P. *see* **Brown, Bruce Maxwell**, **89d:62032**
Horváth, Lajos (*with* Yandell, Brian S.) Convergence rates for the bootstrapped product-limit process. **89b:62046**
Huffer, Fred W. Divided differences and the joint distribution of linear combinations of spacings. **89e:60030**
Keller, Gerhard *see* **Denker, Manfred; et al.**, **89g:62028**
Khashimov, Sh. A. Limit distribution of a two-sample von Mises functional with variable kernel. **89e:62021**
Kim, Hae Kyung *see* **Lee, Sang Gone**, **89a:62151**
Lee, Sang Gone (*with* Kim, Hae Kyung) Asymptotic efficiency of a nonparametric test in nonlinear regression parameters. **89a:62151**
McKean, Joseph *see* **Schrader, Ronald M.**, **89e:62085**
Morales González, Domingo The rate of variation of informational energy as a stopping rule in sequential sampling of a Dirichlet process. (Spanish. English summary) **89i:94019**
Müller-Funk, U. (*with* Pukelsheim, Friedrich; Witting, Hermann) Locally most powerful tests for two-sided hypotheses. **89e:62110**
Pestana, Dinis D. Time series fitting of almost stable stochastic processes. **89b:62193**
Praagman, Jaap Bahadur efficiency of rank tests for the change-point problem. **89e:62056**
Pukelsheim, Friedrich *see* **Müller-Funk, U.; et al.**, **89e:62110**

Puri, Madan L. *see* **Denker, Manfred, 89e:60075; Hallin, Marc, 89e:62119** *and* **Denker, Manfred; et al., 89g:62028**

Rosenbaum, Paul R. Correction to: "Sensitivity analysis for certain permutation inferences in matched observational studies" [Biometrika **74** (1987), no. 1, 13–26; MR 88c:62114]. **89d:62065**

Sager, Thomas W. *see* **Stokes, S. Lynne, 89i:62066**

Salsburg, David S. *see* **Conover, William J., 89g:62161**

Schrader, Ronald M. (*with* McKean, Joseph) Small sample properties of least absolute errors analysis of variance. **89e:62085**

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Vo Khac, Khoan ★ Estimation et tests paramétriques et non paramétriques. (French) [Parametric and nonparametric estimation and tests] **89k:62001**

Witting, Hermann *see* **Müller-Funk, U.; et al., 89e:62110**

(Wolfe, Douglas A.) *see* **David, H. A.**, (Not in MR)

Wunderlich, Ralf *see* **Eger, Karl-Heinz, 89m:62093**

Yandell, Brian S. *see* **Horváth, Lajos, 89b:62046**

62G15 Tolerance and confidence regions

Bie, Ole (*with* Borgan, Ørnulf; Liestøl, Knut) Confidence intervals and confidence bands for the cumulative hazard rate function and their small sample properties. **89a:62116**

Borgan, Ørnulf *see* **Bie, Ole; et al., 89a:62116**

Carroll, Raymond J. (*with* Spiegelman, C. H.; Sacks, Jerome) A quick and easy multiple-use calibration-curve procedure. **89d:62038**

Hall, Peter On the bootstrap and likelihood-based confidence regions. **89h:62084**

— Theoretical comparison of bootstrap confidence intervals. **89h:62085**

Jhun, M. Bootstrapping density estimates. **89e:62055**

Liestøl, Knut *see* **Bie, Ole; et al., 89a:62116**

Liu, Regina Y. (*with* Singh, Kesar) On a partial correction by the bootstrap. **89b:62097**

Sacks, Jerome *see* **Carroll, Raymond J.; et al., 89d:62038**

Singh, Kesar *see* **Liu, Regina Y., 89b:62097**

Spiegelman, C. H. *see* **Carroll, Raymond J.; et al., 89d:62038**

Items with secondary classifications in 62G15

Beran, Rudolf Prepivoting to reduce level error of confidence sets. **89h:62049**

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62G20 Asymptotic efficiency

Amanov, A. K. Asymptotic properties of nonparametric estimates for the marginal probability density for asymtotically noncorrelated observations. (Russian) (Not in MR)

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Lindqvist, Bo Henry *see* **Govindarajulu, Z., 89a:62118**

Praagman, Jaap Bahadur efficiency of rank tests for the change-point problem. **89e:62056**

Items with secondary classifications in 62G20

Babu, Gutti Jogesh Estimation of density quantile function. **89h:62057**

Dufour, Jean-Marie (*with* Hallin, Marc) Tests non paramétriques optimaux pour le modèle autorégressif d'ordre un. (English summary) [Optimal nonparametric tests for a first-order autoregressive model] **89b:62187**

Gijbels, I. (*with* Veraverbeke, N.) Weak asymptotic representations for quantiles of the product-limit estimator. **89a:62095**

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Hallin, Marc *see* **Dufour, Jean-Marie, 89b:62187**

Hüsler, Jürg (*with* Riedwyl, H.) Comparison of the efficiency of nonparametric location tests based on grouped and individual data. **89k:62062**

Janssen, Paul *see* **Gijbels, I.; et al., 89b:60074**

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Khas′minskiĭ, R. Z. *see* **Pastukhova, Yu. I., 89m:62062**

Kim, Hae Kyung *see* **Lee, Sang Gone, 89a:62151**

Korostelëv, A. P. Asymptotically efficient recurrent estimation of a nonparametric signal. **89h:62063**

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Maesono, Yoshihiko Competitors of the Wilcoxon signed rank test. **89a:62112**

Nikitin, Ya. Yu. Large deviations and asymptotic efficiency of integral statistics for a test of independence. (Russian) **89b:62093**

Pastukhova, Yu. I. (*with* Khas′minskiĭ, R. Z.) Nonparametric estimates for a linear functional of a regression under a given observation plan. **89m:62062**

Portnoy, Stephen *see* **Jurečková, Jana, 89a:62097**

Riedwyl, H. *see* **Hüsler, Jürg, 89k:62062**

Sen, Pranab Kumar *see* **Servy, Elsa Clotilde, 89c:62079**

Servy, Elsa Clotilde (*with* Sen, Pranab Kumar) Missing variables in multisample rank permutation tests for MANOVA and MANOCOVA. **89c:62079**

Suzuki, Takeru On the second order efficiency of bootstrap estimators of sampling distributions. **89h:62069**

Veraverbeke, N. *see* **Gijbels, I., 89a:62095** *and* **89b:60074**

Yurovskiĭ, A. Yu. Asymptotic representations for the second moments of spectral density estimators. (Russian) **89b:62090**

62G25 Quick and easy methods

Aly, Emad-Eldin A. A. (*with* Öztürk, Aydın) Hodges-Lehmann quantile-quantile plots. **89a:62119**

— (*with* Öztürk, Aydın) A modified one-sample Q-Q plot and a test for normality. (Not in MR)

Öztürk, Aydın *see* **Aly, Emad-Eldin A. A., 89a:62119** *and* (Not in MR)

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62G30 Order statistics; empirical distribution functions

Abu-Salih, M. S. (*with* Ali Khan, M. S.; Husein, A.) Prediction intervals of order statistics for the mixture of two exponential distributions. **89a:62120**

Ahmed, S. E. *see* **Malik, H. J.; et al., 89j:62070**

Ali Khan, M. S. *see* **Abu-Salih, M. S.; et al., 89a:62120**

Ambagaspitiya, R. S. *see* **Balakrishnan, N.**, (Not in MR)

Balakrishnan, N. Recurrence relations for order statistics from n independent and non-identically distributed random variables. **89i:62078**

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David, H. A. General bounds and inequalities in order statistics. **89j:62068**

Einmahl, John H. J. (*with* Haeusler, Erich; Mason, David M.) On the relationship between the almost sure stability of weighted empirical distributions and sums of order statistics. **89i:62080**

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Galambos, Janos Variants of the graph dependent model in extreme value theory. **89m:62047**

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Grübel, R. The length of the shorth. **89j:62069**

Haeusler, Erich *see* **Einmahl, John H. J.; et al., 89i:62080**

Harter, H. Leon History and role of order statistics. **89i:62081**

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Rousseau, C. C. *see* **George, E. Olusegun, 89c:62080**

Sathe, Y. S. On the correlation coefficient between the first and the rth smallest order statistics based on n independent exponential random variables. **89m:62048**

Sethuraman, Jayaram *see* **Kim, Jee Soo; et al., 89i:62082**

Sundaraiyer, Vani *see* **Whitten, Betty Jones; et al., 89e:62058**

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Haeusler, Erich *see* **Csörgő, Sándor; et al., 89f:60021**

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Helmers, R. *see* **Does, R. J. M. M.; et al., 89a:62047** *and* **van Es, A. J., 89k:60025**

Holst, Lars On birthday, collectors', occupancy and other classical urn problems. (French summary) **89g:60028**

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Kaigh, W. D. *see* **Driscoll, Michael F., 89j:62025**

Kaishev, Vladimir K. *see* **Ignatov, Tsvetan G.**, (**89c:00038**)

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Khan, Irshad Ahmad *see* **Khan, Abdul Hamid, 89b:62035**

Klaassen, C. A. J. *see* **Does, R. J. M. M.; et al., 89a:62047**

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Lockhart, Richard A. *see* **Guttorp, Peter, 89a:62048**

Mamurov, I. N. *see* **Dzhamirzaev, A. A., 89h:60037**

Mason, David M. *see* **Einmahl, John H. J., 89c:60036; Csörgő, Sándor; et al., 89f:60021** *and* **Deheuvels, Paul, 89k:60040**

Nevzorov, V. B. The number of records in a sequence of nonidentically distributed variables. (Russian) **89f:60027**

— Moments of some random variables connected with records. (Russian. English summary) **89b:60042**

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Saleh, A. K. Md. Ehsanes *see* **Rohatgi, Vijay K., 89c:62038**

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Senkienė, Elvyra Some properties of distributions of the minimal term of a sequence of independent normal random variables. (Russian. Lithuanian summary) **89g:60084**

Shaked, M. *see* **Scarsini, M., 89a:62039**

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Willekens, Eric The structure of the class of subexponential distributions. **89b:60045**

Yang, Grace L. *see* **Chang, Myron N., 89c:62070**

62G99 None of the above, but in this section

Fichet, Bernard The role played by L_1 in data analysis. **89j:62071**

Glaz, J. A survey of statistical methods on remote sensing in Russian literature from 1976 to 1985. (Not in MR)

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Serfling, R. *see* **Helmers, R.; et al., 89h:60046**

Steinebach, Josef *see* **Csörgő, Miklós; et al., 89c:60044**

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62Hxx Multivariate analysis [see also 60Exx]

Schervish, Mark J. A review of multivariate analysis. **89a:62122**

62H05 Characterization and structure theory

Bai, Zhi Dong (*with* Silverstein, Jack W.; Yin, Yong Quan) A note on the largest eigenvalue of a large-dimensional sample covariance matrix. **89i:62083**

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Cuadras, C. M. *see* **Ocaña, J., 89k:62070**

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Roux, J. J. J. *see* **Bekker, A.; et al., 89j:62023**

Sastrosoewignjo, S. *see* **Dorea, C. C. Y., 89a:60096**

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62H10 Distribution of statistics

Bentler, P. M. *see* **Berkane, Maia, 89a:62124**

Berkane, Maia (*with* Bentler, P. M.) Distribution of kurtoses, with estimators and tests of homogeneity of kurtosis. **89a:62124**

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Browne, Michael W. *see* **Shapiro, Alexander, 89c:62088**

Fan, Jian Qing *see* **Fang, Kai Tai; et al., 89g:62076**

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Gill, D. S. (*with* Siotani, Minoru) On randomization in multivariate analysis of variance. **89h:62087**

Gupta, Arjun K. (*with* Tang, Jen) Distribution of likelihood criteria and Box approximation. **89g:62077**

— (*with* Nagar, D. K.) Nonnull distribution of the likelihood ratio criterion for testing equality of covariance matrices under intraclass correlation model. **89a:62126**

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Hsu, Chyi Hung (*with* Levy, Martin S.; Neill, James W.) The distribution of the ratio of independent central Wishart determinants. **89g:62078**

Iyengar, Satish Evaluation of normal probabilities of symmetric regions. **89f:62048**

Khatri, C. G. Quadratic forms to have a specified distribution. **89d:62043**

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Levy, Martin S. *see* **Hsu, Chyi Hung; et al., 89g:62078**

Nagar, D. K. (*with* Gupta, Arjun K.) Nonnull distribution of LRC for testing $H\colon \boldsymbol{\mu} = 0;\ \Sigma = \sigma^2 I_p$ in multivariate normal distribution. (French and Italian summaries) **89b:62104**

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Pavur, Robert Distribution of multivariate quadratic forms under certain covariance structures. (French summary) **89e:62063**

Proschan, Frank *see* **Boland, Philip J., 89d:62042**

Schmidhammer, J. *see* **Fujikoshi, Y.; et al., 89a:62125**

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Siotani, Minoru *see* **Gill, D. S., 89h:62087**

Takemura, Akimichi *see* **Takeuchi, Kei, 89e:62064**

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Tang, Jen *see* **Gupta, Arjun K., 89g:62077**

Wansbeek, Tom *see* **Neudecker, Heinz, 89c:62087**

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Xu, Jian Lun *see* **Fang, Kai Tai; et al., 89g:62076**

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Nagar, D. K. *see* **Gupta, Arjun K., 89g:62082**

Proschan, Frank *see* **Boland, Philip J.; et al., 89h:60022**

Quine, M. P. (*with* Seneta, E.) Bortkiewicz's data and the law of small numbers. (French summary) **89k:01020**

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Schüpbach, Michel *see* **Hüsler, Jürg, 89e:60046**

Sénateur, Henri *see* **Dunau, Jean-Louis, 89g:60039**

Seneta, E. *see* **Quine, M. P., 89k:01020**

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Tong, Yung Liang *see* **Boland, Philip J.; et al., 89h:60022**

Wu, Chuan Yi Multiparameter exponential families with quadratic covariance matrix functions. (Chinese. English summary) **89g:62074**

62H12 Estimation

Akai, Toyoaki Further generalization of Stein estimators. **89f:62049**

Babanin, A. S. *see* **Girko, V. L., 89k:62072**

Baranov, A. P. A method for estimating Mahalanobis distance. **89i:62086**

Bhavsar, C. D. *see* **Khatri, C. G., 89k:62073**

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Ioseliani, Ts. I. *see* **Chernov, N. I.; et al.**, 89e:62065

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Konno, Yoshihiko *see* **Sugiura, Nariaki**, 89b:62110 *and* 89g:62081

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Kurbatov, V. S. *see* **Chernov, N. I.; et al.**, 89e:62065

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Sarkadi, K. *see* **Kosik, P.**, 89m:62053

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Welsh, A. H. *see* **Heathcote, C. R.**, 89d:62044

Zhang, Yao Ting *see* **Bian, Guo Rui**, 89a:62128

Items with secondary classifications in 62H12

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Rubin, Herman *see* **DasGupta, Anirban**, 89b:62017

Saleh, A. K. Md. Ehsanes *see* **Sen, Pranab Kumar**, 89a:62171

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Shepp, L. A. *see* **Mandelbaum, Avi**, 89a:62029

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Trenkler, G. *see* **Schipp, B.; et al.**, 89e:62083

Tripathi, T. P. A class of estimators for population mean using multivariate auxiliary information under general sampling designs. **89b:62034**

Vieu, Philippe *see* **Sarda, Pascal**, 89b:62087

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Weerahandi, Samaradasa *see* **Johnson, Richard A.**, 89f:62028

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Zhao, Jiang Convergence rates for multivariate Priestly-Chao estimators and their derivatives. (Chinese. English summary) **89m:62044**

62H15 Hypothesis testing

Balakrishnan, N. *see* **Tiku, M. L.**, 89c:62096 *and* (Not in MR)

Best, D. J. (*with* Rayner, J. C. W.) A test for bivariate normality. **89c:62092**

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Larntz, Kinley (*with* Perlman, Michael D.) A simple test for the equality of correlation matrices. **89a:62133**
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Moodie, Patricia F. *see* **Nelson, Norma A.**, (Not in MR)
Mudholkar, Govind S. (*with* Subbaiah, Perla) On a Fisherian detour of the step-down procedure for MANOVA. **89b:62116**
Nagar, D. K. *see* **Gupta, Arjun K., 89b:62114** *and* **89g:62082**
Nelson, Norma A. (*with* Moodie, Patricia F.) Robust multivariate analysis of variability. (Not in MR)
Nummi, T. *see* **Liski, E. P., (89i:62004)**
Perlman, Michael D. *see* **Larntz, Kinley, 89a:62133**
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— *see also* **Khatri, C. G., 89k:62074**
Rayner, J. C. W. *see* **Best, D. J., 89c:62092**
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Sasabuchi, Syoichi A multivariate one-sided test with composite hypotheses when the covariance matrix is completely unknown. **89c:62094**
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Sen Gupta, Ashis On tests for equicorrelation coefficient of a standard symmetric multivariate normal distribution. **89d:62047**
Shi, Ning Zhong Testing a normal mean vector against the alternative determined by a convex cone. **89e:62069**
Skinner, C. J. *see* **Pervaiz, Muhammad Khalid**, (Not in MR)
Srivastava, M. S. *see* **Chan, Y. M., 89b:62113**
Subbaiah, Perla *see* **Mudholkar, Govind S., 89b:62116**
Szkutnik, Zbigniew On invariant tests for multidimensional normality. **89j:62073**
Tang, Jen *see* **Gupta, Arjun K., 89h:62090**
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Items with secondary classifications in 62H15

Bentler, P. M. *see* **Berkane, Maia, 89a:62124**
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— (*with* Nagar, D. K.) Nonnull distribution of the likelihood ratio criterion for testing equality of covariance matrices under intraclass correlation model. **89a:62126**
— *see also* **Nagar, D. K., 89b:62104**
Hettmansperger, T. P. *see* **Brown, Bruce Maxwell, 89d:62032** *and* **89j:62061**
Kitahara, Teisuke *see* **Nomachi, Yukio; et al., 89d:62028**
Lewis, Toby *see* **Fisher, N. I.; et al., 89b:62002**
Leysen, J. (*with* Pastijn, H.) Chaos, determinism and stochasticity. **89h:58124**
Macready, George B. *see* **Dayton, C. Mitchell, 89k:62078**
Mak, Tak K. Estimating subgroup means with misclassification. **89m:62054**
Nagar, D. K. (*with* Gupta, Arjun K.) Nonnull distribution of LRC for testing H: $\mu = 0$; $\Sigma = \sigma^2 I_p$ in multivariate normal distribution. (French and Italian summaries) **89b:62104**
— *see also* **Gupta, Arjun K., 89a:62126**
Nomachi, Toshifumi *see* **Nomachi, Yukio; et al., 89d:62028**
Nomachi, Yukio (*with* Kitahara, Teisuke; Nomachi, Toshifumi) On some two-stage estimators utilizing prior informations after the preliminary tests. **89d:62028**
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Park, Nae Hyun Multivariate linear calibration with univariate controlled variable. **89a:62165**
Pastijn, H. *see* **Leysen, J., 89h:58124**
Rivest, Louis-Paul A distribution for dependent unit vectors. **89g:62027**
Sagman, Uri *see* **Ciampi, Antonio; et al., (89g:62009)**
Sakata, Toshio *see* **Nomakuchi, Kentaro, 89d:62021**
Sen, Pranab Kumar *see* **Servy, Elsa Clotilde, 89c:62079**
Sen Gupta, Ashis Tests for standardized generalized variances of multivariate normal populations of possibly different dimensions. **89a:62127**
Servy, Elsa Clotilde (*with* Sen, Pranab Kumar) Missing variables in multisample rank permutation tests for MANOVA and MANOCOVA. **89c:62079**
Tang, Jen *see* **Gupta, Arjun K., 89g:62077**
Thiffault, Johanne *see* **Ciampi, Antonio; et al., (89g:62009)**
Tiku, M. L. A robust procedure for testing an assumed value of the population correlation coefficient. **89a:62139**
Zhang, Yao Ting *see* **Bian, Guo Rui, 89a:62128**

62H17 Contingency

Agresti, Alan (*with* Chuang, Christy) Model-based Bayesian methods for estimating cell proportions in cross-classification tables having ordered categories. (Not in MR)
Anderson, Erling B. Amendment to discussion of paper by L. A. Goodman: "Some useful extensions of the usual correspondence analysis approach and the usual log-linear models approach in the analysis of contingency tables" [Internat. Statist. Rev. **54** (1986), no. 3, 243–309]. (Not in MR)
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Bae, Jong Sig *see* **Jeon, Jong Woo; et al.**, (Not in MR)
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Böker, F. A criterion for selecting log-linear models for contingency tables. (German summary) **89i:62088**
— Some remarks on measures of association in 2×2 tables. **89e:62070**
Burman, Prabir Smoothing sparse contingency tables. **89a:62134**
Choulakian, V. Exploratory analysis of contingency tables by loglinear formulation and generalizations of correspondence analysis. **89j:62075**
— Analyse factorielle des correspondances de tableaux multiples. (English summary) [Factor analysis of correspondences of multiple tables] **89k:62076**
Chuang, Christy *see* **Agresti, Alan**, (Not in MR)
Chung, Han Young *see* **Jeon, Jong Woo; et al.**, (Not in MR)
Coppi, Renato Simultaneous analysis of a set of multidimensional contingency tables. **89i:62089**
Fagan, James T. (*with* Greenberg, Brian V.) Making tables additive in the presence of zeros. **89a:62135**
Geng, Zhi Inference procedures for the symmetry in a contingency table. **89d:62048**
Gill, R. D. (*with* Schriever, B. F.) Amendment to discussion of paper by L. A. Goodman: "Some useful extensions of the usual correspondence analysis approach and the usual log-linear models approach in the analysis of contingency tables" [Internat. Statist. Rev. **54** (1986), no. 3, 243–309]. (Not in MR)
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Goodman, Leo A. Some useful extensions of the usual correspondence analysis approach and the usual log-linear models approach in the analysis of contingency tables. (French summary) (Not in MR)
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Greenberg, Brian V. *see* **Fagan, James T., 89a:62135**
Greenland, Sander (*with* Mickey, Ruth M.) Closed form and dually consistent methods for inference on strict collapsibility in $2 \times 2 \times K$ and $2 \times J \times K$ tables. (Not in MR)
Haber, Michael Do the marginal totals of a 2×2 contingency table contain information regarding the table proportions? **89m:62057**
Haberman, Shelby J. *see* **Gilula, Zvi, 89i:62090**
van der Heijden, Peter G. M. *see* **de Leeuw, Jan, 89m:62058**
Huh, Myung-Hoe Simpson's paradox and randomization. (Not in MR)
Jeon, Jong Woo (*with* Chung, Han Young; Bae, Jong Sig) Chances of Simpson's paradox. (Not in MR)
Jones, Michael P. *see* **O'Gorman, Thomas W.; et al.**, (Not in MR)
Knuiman, M. W. (*with* Speed, T. P.) Incorporating prior information into the analysis of contingency tables. (French summary) (Not in MR)
de Leeuw, Jan (*with* van der Heijden, Peter G. M.) Correspondence analysis of incomplete contingency tables. **89m:62058**
Lemke, Jon H. *see* **O'Gorman, Thomas W.; et al.**, (Not in MR)
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Luna del Castillo, J. D. *see* **Martín Andrés, A.**, (Not in MR)
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Palmgren, Juni ★ Models for categorical data with errors of observation. **89e:62071**
Porteous, B. T. The mutual independence hypothesis for categorical data in complex sampling schemes. **89a:62136**

Prášková, Z. (*with* Ratajová, Monika) On Bayes inference in contingency tables. 89a:62137

Ratajová, Monika *see* **Prášková, Z.**, **89a:62137**

Schriever, B. F. *see* **Gill, R. D.**, (Not in MR)

Speed, T. P. *see* **Knuiman, M. W.**, (Not in MR)

Staroświecki, M. *see* **Barboucha, M.; et al.**, (**89g:62009**)

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Wermuth, Nanny Parametric collapsibility and the lack of moderating effects in contingency tables with a dichotomous response variable. **89b:62119**

Woolson, Robert F. *see* **O'Gorman, Thomas W.; et al.**, (Not in MR)

Items with secondary classifications in 62H17

Guerrero, Victor M. (*with* Johnson, Richard A.) Transforming grouped bivariate data to near normality. **89a:62068**

Ignatov, Tsvetan G. (*with* Kaishev, Vladimir K.) Multivariate *B*-splines, analysis of contingency tables and serial correlation. **89g:62061**

Johnson, Richard A. *see* **Guerrero, Victor M.**, **89a:62068**

Kaishev, Vladimir K. *see* **Ignatov, Tsvetan G.**, **89g:62061**

Lerman, I. C. (*with* Peter, Ph.) Structure maximale pour la somme des carrés d'une contingence aux marges fixées; une solution algorithmique programmée. (English summary) [Maximal structure for the sum of the squares of a fixed-margin contingency: a programmed algorithmic solution] **89f:90125**

Otsu, Tatsuo *see* **Saito, Takayuki**, **89c:62097**

Peter, Ph. *see* **Lerman, I. C.**, **89f:90125**

Saito, Takayuki (*with* Otsu, Tatsuo) A method of optimal scaling for multivariate ordinal data and its extensions. **89c:62097**

62H20 Measures of association (correlation, canonical correlation, etc.)

van der Burg, Eeke (*with* de Leeuw, Jan) Use of the multinomial jack-knife and bootstrap in generalized nonlinear canonical correlation analysis. **89i:62091**

Chinchilli, Vernon M. *see* **Choi, Sung C.**, **89b:62120**

Choi, Sung C. (*with* Chinchilli, Vernon M.) Analysis of within- and across-subject correlations. **89b:62120**

Cox, David Roxbee (*with* Solomon, P. J.) On testing for serial correlation in large numbers of small samples. (Not in MR)

Dayton, C. Mitchell (*with* Macready, George B.) Concomitant-variable latent-class models. **89k:62078**

Giakoumakis, Vassili (*with* Monjardet, B.) Coefficients d'accord entre deux préordres totaux. (English summary) [Coefficients of agreement between two monotone quasi-orders] **89i:62092**

Henery, R. J. Asymptotic convergence in distribution for Spearman's rank correlation coefficient. (Not in MR)

Holland, Paul W. (*with* Wang, Yuchung J.) Dependence function for continuous bivariate densities. **89a:62138**

Jolicoeur, Pierre *see* **Pontier, Jacques; et al.**, **89d:62049**

de Leeuw, Jan *see* **van der Burg, Eeke**, **89i:62091**

Macready, George B. *see* **Dayton, C. Mitchell**, **89k:62078**

Monjardet, B. *see* **Giakoumakis, Vassili**, **89i:62092**

Pernin, Marie-Odile *see* **Pontier, Jacques; et al.**, **89d:62049**

Pontier, Jacques (*with* Jolicoeur, Pierre; Pernin, Marie-Odile) Analyse canonique complète. (English summary) [Complete canonical analysis] **89d:62049**

Randles, Ronald H. *see* **Samara, Basil**, **89g:62085**

Rencher, Alvin C. On the use of correlations to interpret canonical functions. **89f:62051**

Samara, Basil (*with* Randles, Ronald H.) A test for correlation based on Kendall's tau. **89g:62085**

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Schriever, B. F. An ordering for positive dependence. **89b:62121**

Solomon, P. J. *see* **Cox, David Roxbee**, (Not in MR)

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Wang, Yuchung J. *see* **Holland, Paul W.**, **89a:62138**

Whitaker, Lyn R. *see* **Sampson, Allan R.**, **89k:62079**

Wu, Shi Yong (*with* Yu, Yi Liang) Welsch-Kuh statistic and coefficient of correlation. (Chinese. English summary) **89d:62050**

Yu, Yi Liang *see* **Wu, Shi Yong**, **89d:62050**

Zhang, Yao Ting (*with* Zhu, Xiao Dong) Correlation of *k* groups of random variables. (Chinese. English summary) **89f:62052**

Zhu, Xiao Dong *see* **Zhang, Yao Ting**, **89f:62052**

Items with secondary classifications in 62H20

Böker, F. Some remarks on measures of association in 2×2 tables. **89e:62070**

Choi, Jeong-Yeol *see* **Kim, Tae-Sung**, **89c:62085**

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Jupp, P. E. A nonparametric correlation coefficient and a two-sample test for random vectors or directions. **89a:62110**

Katapa, R. S. *see* **Srivastava, M. S.; et al.**, **89a:62220**

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Krishnaiah, P. R. *see* **Fujikoshi, Y.; et al.**, **89a:62125**

Leung, Pui Lam (*with* Muirhead, Robb J.) Estimation of parameter matrices and eigenvalues in MANOVA and canonical correlation analysis. **89e:62067**

Lewis, Toby *see* **Fisher, N. I.; et al.**, **89b:62002**

Muirhead, Robb J. *see* **Leung, Pui Lam**, **89e:62067**

Mukherjee, B. N. *see* **Yanai, Haruo**, **89e:62060**

Schmidhammer, J. *see* **Fujikoshi, Y.; et al.**, **89a:62125**

Sen Gupta, Ashis On tests for equicorrelation coefficient of a standard symmetric multivariate normal distribution. **89d:62047**

Srivastava, M. S. (*with* Keen, K. J.; Katapa, R. S.) Estimation of interclass and intraclass correlations in multivariate familial data. (French summary) **89a:62220**

Yanai, Haruo (*with* Mukherjee, B. N.) A generalized method of image analysis from an intercorrelation matrix which may be singular. **89e:62060**

62H25 Factor analysis and principal components

Ahlquist, J. E. Principal component analysis of vector-valued functions of four dimensions. **89b:62122**

Amemiya, Yasuo *see* **Anderson, T. W.**, **89g:62086**

Anderson, T. W. (*with* Amemiya, Yasuo) The asymptotic normal distribution of estimators in factor analysis under general conditions. **89g:62086**

d'Aubigny, G. A toolkit for multidimensional scaling of dissimilarity data. **89j:62076**

Belaid, D. *see* **Chatelin, Françoise**, (Not in MR)

Benasseni, J. Sensitivity of principal component analysis to data perturbation. **89i:62093**

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— (*with* Caussinus, H.; Ferré, L.; Fine, Jeanne) Principal components analysis and optimization of graphical displays. **89g:62087**

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Browne, Michael W. (*with* Shapiro, Alexander) Adjustments for kurtosis in factor analysis with elliptically distributed errors. **89b:62123**

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Duby, C. *see* **Daudin, J.-J.; et al.**, **89g:62088**

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Ferré, L. *see* **Besse, Ph.; et al.**, **89g:62087**

Fine, Jeanne *see* **Besse, Ph.; et al.**, **89g:62087**

Gal'perin, M. E. Confidence intervals of coefficients of a linear model in factor analysis. (*see* **89j:00017**)

Jolliffe, I. T. Rotation of ill-defined principal components. (Not in MR)

Kano, Yutaka (*with* Shapiro, Alexander) On asymptotic variances of uniqueness estimators in factor analysis. **89e:62072**

Kozák, Josef Application of Demidenko's approach to the solution of the prediction problem. (Czech summary) **89g:62089**

de Leeuw, Jan *see* **Takane, Yoshio**, **89b:62124**

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Moore, R. G. *see* **Seddon, G. M.**, **89h:62091**

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Otsu, Tatsuo *see* **Saito, Takayuki**, **89c:62097**

Porta, T. *see* **Chatelin, Françoise**, (Not in MR)

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Tarumi, Tomoyuki *see* **Tanaka, Yutaka**[1], **89i:62096**

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Trécourt, P. *see* **Daudin, J.-J.; et al.**, **89g:62088**

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Items with secondary classifications in 62H25

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Bock, H. H. On the interface between cluster analysis, principal component analysis, and multidimensional scaling. **89a:62141**
Fujikoshi, Y. (*with* Krishnaiah, P. R.; Schmidhammer, J.) Effect of additional variables in principal component analysis, discriminant analysis and canonical correlation analysis. **89a:62125**
Hu, De Kun (*with* Zhang, Xi Guang) Principal component cluster analysis. (Chinese. English summary) (Not in MR)
Krishnaiah, P. R. *see* **Fujikoshi, Y.; et al., 89a:62125**
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Mirkin, B. G. The method of principal clusters. (Russian. English summary) **89a:62145**
Muchnik, I. B. *see* **Aven, P. O.; et al., 89m:68025**
Mukherjee, B. N. *see* **Yanai, Haruo, 89e:62060**
Okabe, Atsuyuki Exact higher moments of the nearest neighbor distance. **89k:92003**
Oslon, A. A. *see* **Aven, P. O.; et al., 89m:68025**
Schmidhammer, J. *see* **Fujikoshi, Y.; et al., 89a:62125**
Veliczky, J. *see* **Bánkõvi, Gy.; et al., 89e:62124**
Yanai, Haruo (*with* Mukherjee, B. N.) A generalized method of image analysis from an intercorrelation matrix which may be singular. **89e:62060**
Zhang, Xi Guang *see* **Hu, De Kun**, (Not in MR)
Ziermann, M. *see* **Bánkõvi, Gy.; et al., 89e:62124**

62H30 Classification and discrimination; cluster analysis [see also 68T10]

Ãäremaa, K. *see* **Ãäremaa, R.; et al., 89j:62077**
Ãäremaa, R. (*with* Äāremaa, K.; Tamman, T.) A representation of cluster-analysis: the approach using monotonic systems. (Russian summary) **89j:62077**
Abusev, R. A. Classification of multidimensional normal aggregates with the help of potential functions. **89k:62080**
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— (*with* Kocherlakota, S.; Kocherlakota, K.) Robustness of the double discriminant function in nonnormal situations. (Not in MR)
Basford, Kaye E. *see* **McLachlan, Geoffrey J., 89b:62127**
Bezdek, J. C. *see* **Hathaway, R. J., 89h:62094**
Bock, H. H. On the interface between cluster analysis, principal component analysis, and multidimensional scaling. **89a:62141**
Bozdogan, Hamparsum *see* **Eisenblätter, Dorothea, 89a:62142**
(Breiman, Leo) *see* **Loh, Wei-Yin, 89j:62078**
Bromek, T. (*with* Niewiadomska-Bugaj, M.) Threshold rules in two-class discrimination problems. **89c:62100**
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Butler, Ronald W. Optimal clustering on the real line. **89c:62101**
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Ciampi, Antonio (*with* Sagman, Uri; Thiffault, Johanne) Classification, hypothesis formulation and model evaluation. (*see* **89g:62009**)
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Eisenblätter, Dorothea (*with* Bozdogan, Hamparsum) Two-stage multi-sample cluster analysis as a general approach to discriminant analysis. **89a:62142**
Everitt, B. S. A finite mixture model for the clustering of mixed-mode data. **89a:62143**
Forcina, Antonio (*with* Giovagnoli, Alessandra) Mathematical properties of cross-classification matrices. (Italian summary) **89b:62126**
Fowlkes, E. B. (*with* Gnanadesikan, R.; Kettenring, J. R.) Variable selection in clustering. **89h:62093**
(Friedman, Jerome H.) *see* **Loh, Wei-Yin, 89j:62078**
Fujikoshi, Y. On relationship between the AIC and the overall error rates for selection of variables in a discriminant analysis. **89c:62103**
Giovagnoli, Alessandra *see* **Forcina, Antonio, 89b:62126**
Gnanadesikan, R. *see* **Fowlkes, E. B.; et al., 89h:62093**
Hathaway, R. J. (*with* Bezdek, J. C.) Recent convergence results for the fuzzy *c*-means clustering algorithms. **89h:62094**
Heiser, Willem J. *see* **Critchley, Frank, 89h:62092**
Hillion, H. P. (*with* Proth, J.-M.) A top-down hierarchical classification method. (Not in MR)
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Jennrich, Robert I. *see* **Clarkson, Douglas B.**, (Not in MR)
Jiang, Li Zhi *see* **Chen, Jue Ting**, (Not in MR)
Kettenring, J. R. *see* **Fowlkes, E. B.; et al., 89h:62093**
Kim, Hea-Jung Empirical Bayes posterior odds ratio for heteroscedastic classification. (Not in MR)
Knoke, James D. *see* **Snapinn, Steven M., 89i:62098**
Kocherlakota, K. *see* **Balakrishnan, N.; et al.**, (Not in MR)
Kocherlakota, S. *see* **Balakrishnan, N.; et al.**, (Not in MR)
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Loh, Wei-Yin (*with* Vanichsetakul, Nunta) Tree-structured classification via generalized discriminant analysis. **89j:62078**
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Marco, Virgil R. *see* **Young, Dean M.; et al., 89a:62148**
Mardia, K. V. Corrections to: "Spatial discrimination and classification maps" [Comm. Statist. A—Theory Methods **13** (1984), no. 18, 2181–2197; MR 85m:62131]. **89a:62144**
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Milligan, Glenn W. (*with* Cooper, Martha C.) A study of standardization of variables in cluster analysis. (Not in MR)
Mirkin, B. G. The method of principal clusters. (Russian. English summary) **89a:62145**
— *see also* **Mandel′, I. D.**, (Not in MR)
Möhner, M. On the estimation of the expected actual error rate in sample-based multinomial classification. **89g:62093**
Niewiadomska-Bugaj, M. *see* **Bromek, T., 89c:62100**
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Řeháková, Blanka *see* **Řehák, Jan, 89b:62128**
Sagman, Uri *see* **Ciampi, Antonio; et al.**, (**89g:62009**)
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Snapinn, Steven M. (*with* Knoke, James D.) Bootstrapped and smoothed classification error rate estimators. **89i:62098**
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Items listed otherwise than by author

Itogi Nauki i Tekhniki *see* **Pimenov, M. G., 89f:92005**

62H99 None of the above, but in this section

(Aĭvazyan, S. A.) *see* **Davison, Mark L., 89b:62130**

Baddeley, A. J. *see* **Jensen, E. B.; et al., 89f:62053**

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62Jxx Regression and correlation

62J02 General nonlinear regression

Bandemer, Hans *see* **Schmerling, Siegfried, 89d:62053**

Barry, Daniel Nonparametric Bayesian regression. **89a:62149**

Beck, Gerald J. *see* **Qu, Yin Sheng; et al., 89b:62135**

Beggs, John J. A simple model for heterogeneity in binary logit models. **89m:62061**

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Gasser, Theo *see* **Kneip, Alois, 89b:62133**

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Onukogu, Ike B. (*with* Esele, Ignatius I.) Response surface exploration with spline functions: biased regressors. (French and Italian summaries) **89b:62134**

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Pearl, Dennis K. *see* **Fairley, David; et al., 89b:62132**

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Santner, Thomas J. *see* **Duffy, Diane E., 89d:62052**

Sarda, Pascal *see* **Lejeune, Michel G., 89e:62078**

Schmerling, Siegfried (*with* Bandemer, Hans) A method of local approximation of a functional relationship from fuzzy observations. (German and Russian summaries) **89d:62053**

Schnabel, Robert B. *see* **Boggs, Paul T.; et al., 89a:62150**

Shi, Ning Zhong *see* **Nomakuchi, Kentaro, 89e:62079**

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— *see also* **Simonoff, Jeffrey S., 89m:62064**

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Zerek, N. *see* **Dorogovtsev, A. Ya.; et al., 89h:62095**

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Ahmad, Manzoor *see* **Singh, Radhey S., 89e:62048**

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Gómez, Susana *see* **Quintana, José M.; et al., 89k:90163**

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Hartog, Joop *see* **Bierens, Herman J., 89i:62177**

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O'Reilly, Federico J. *see* **Quintana, José M.; et al., 89k:90163**

Osborne, M. R. *see* **Prvan, Tania, 89f:93044**

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Tin, Y. B. *see* **Ch'ên, T'ien Wên, 89a:62092**

Trognon, Alain *see* **Gouriéroux, Christian; et al., 89h:62179**

Tsybakov, A. B. *see* **Härdle, W., 89c:62072**

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62J05 Linear regression

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(Adler, Yu. P.) *see* **Vuchkov, I.; et al., 89f:62058**

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(Boyadzhiev, D. I.) *see* **Vuchkov, I.; et al., 89f:62058**

Boyadzhieva, L. *see* **Vuchkov, I.; et al., 89f:62058**

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— On admissibility of linear estimators for a linear function of parameters. (Korean. English summary) **89c:62107**

Christensen, G. S. *see* **Soliman, S. A.; et al., 89j:62090**

Chung, Ching-Fan *see* **Theil, Henri, 89m:62070**

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Dastoor, Naorayex K. (*with* Fisher, Gordon Ray) On point-optimal Cox tests. **89h:62100**

De Gruttola, V. (*with* Ware, James H.; Louis, Thomas A.) Influence analysis of generalized least squares estimators. **89g:62100**

Devlin, Susan J. *see* **Cleveland, William S.; et al., 89a:62157**

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Donninger, Christian *see* **Krämer, Walter, 89b:62144**

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Drygas, Hilmar *see* **Zmyślony, Roman, 89j:62094**

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Evans, Merran A. (*with* King, Maxwell L.) A further class of tests for heteroscedasticity. **89a:62159**

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Fisher, Gordon Ray *see* **Dastoor, Naorayex K., 89h:62100**

Fraser, D. A. S. (*with* Gebotys, R. J.) Nonnested linear models: a conditional confidence approach. (French summary) **89b:62139**

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Gebotys, R. J. *see* **Fraser, D. A. S., 89b:62139**

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Grechanovskiĭ, Evgeniĭ *see* **Pinsker, I. Sh.; et al., 89g:62106**

Green, Peter J. Penalized likelihood for general semi-parametric regression models. (French summary) **89h:62103**

— Regression, curvature and weighted least squares. **89h:62104**

Grosse, Eric *see* **Cleveland, William S.; et al., 89a:62157**

Grubb, David (*with* Magee, Lonnie) A variance comparison of OLS and feasible GLS estimators. **89i:62108**

Guttman, I. *see* **Draper, N. R., 89a:62158**

Hadi, Ali S. *see* **Chatterjee, Samprit,** (Not in MR)

Hamada, Michael S. (*with* Tse, S.-K.) A note on the existence of maximum likelihood estimates in linear regression models using interval-censored data. **89j:62086**

Hammarling, S. The numerical solution of the general Gauss-Markov linear model. (*see* **89b:94004**)

Hanif, Muhammad *see* **Brewer, K. R. W.; et al., 89j:62084**

Härdle, W. An effective selection of regression variables when the error distribution is incorrectly specified. **89c:62111**

Hassanein, Khatab M. *see* **Saleh, A. K. Md. Ehsanes, 89g:62108**

He, Ying Hui Some notes on convergence rates for error variance estimates in linear models. (Chinese. English summary) **89h:62105**

Helms, Ronald W. *see* **Fairclough, Diane L.**, (Not in MR)
Henderson, Charles R. The use of equivalent linear models in mixed model estimation and prediction. **89d:62057**
Hesselager, Ole On the asymptotic distribution of weighted least squares estimators. **89m:62065**
Hinkley, D. V. (*with* Wang, Suojin) More about transformations and influential cases in regression. (Not in MR)
Honda, Yuzo On the optimality of some tests of the error covariance matrix in the linear regression model. **89m:62066**
Horng Shiau, Jyh-Jen *see* **Owen, D. B.**, **89c:62113**
Hu, Shu He Consistency of least squares estimators of linear regressions with dependent errors. (Chinese. English summary) **89m:62067**
Jewitt, Ian *see* **Chesher, Andrew**, **89g:62099**
Jeyaratnam, S. (*with* Panchapakesan, S.) Prediction intervals for the random intercept linear model. (Not in MR)
Joala, V. (*with* Ol′man, V.) A method for estimating the coefficients of a one-dimensional linear regression. (Russian) **89a:62161**
de Jongh, P. J. (*with* de Wet, T.; Welsh, A. H.) Mallows-type bounded-influence-regression trimmed means. **89k:62088**
Judge, George *see* **Teräsvirta, Timo; et al.**, (Not in MR)
Juritz, June M. *see* **Stein, Gillian Z.**, **89b:62151**
Kanoh, Satoru The reduction of the width of confidence bands in linear regression. **89h:62106**
Kariya, Takeaki The class of models for which the Durbin-Watson test is locally optimal. **89i:62109**
Kárník, Igor On the possibility of using a generalized two-dimensional Poisson distribution in pairwise linear regression. (Czech. English summary) **89i:62110**
Kas′yanov, V. A. (*with* Udartsev, E. P.) Increasing the stability of estimates by the least squares method. (Not in MR)
Kazachenok, V. V. Construction of discontinuous regressive models in the multidimensional case. (Russian) (Not in MR)
Khas′minskiĭ, R. Z. (*with* Nevel′son, M. B.) On the parameter estimation for the linear regression. **89e:62081**
King, Maxwell L. *see* **Evans, Merran A.**, **89a:62159**
Kipnis, Victor *see* **Pinsker, I. Sh.; et al.**, **89g:62106**
Klonecki, W. (*with* Zontek, S.) On the structure of admissible linear estimators. **89h:62107**
Kmenta, Jan (*with* Balestra, Pietro) Missing measurements in a regression problem with no auxiliary relations. **89a:62162**
Koch, Karl-Rudolf ★ Parameter estimation and hypothesis testing in linear models. **89b:62141**
Koenker, Roger A comparison of asymptotic testing methods for l_1-regression. (*see* **89b:62009**)
— (*with* Portnoy, Stephen) L-estimation for linear models. **89b:62142**
Korkhin, A. S. Estimation of the parameters of a multivariate linear regression with inequality constraints that are defined fuzzily. **89i:62111**
Krämer, Walter (*with* Sonnberger, Harald) ★ The linear regression model under test. **89b:62143**
— (*with* Donninger, Christian) Spatial autocorrelation among errors and the relative efficiency of OLS in the linear regression model. **89b:62144**
— *see also* **Ploberger, Werner**, **89b:62150**
Küsters, Ulrich ★ Hierarchische Mittelwert- und Kovarianzstrukturmodelle mit nichtmetrischen endogenen Variablen. (German) [Hierarchical mean value and covariance structure models with nonmetric endogenous variables] **89g:62102**
Kwok, Ben (*with* Veall, Michael R.) The jackknife and regression with AR(1) errors. **89j:62087**
Laird, Nan M. *see* **Baker, Stuart G.**, (Not in MR)
Lavergne, Christian (*with* Mathieu, Jean-René) The jackknife method and the Gauss-Markov estimation. **89b:62145**
Lawless, J. F. *see* **Gould, Ann**, **89i:62107**
Le Breton, Alain (*with* Musiela, M.) Strong consistency of least squares estimates in linear regression models driven by semimartingales. **89a:62163**
Lee, Sik Yum *see* **Bentler, P. M.; et al.**, **89b:62136**
Lee, Wonwoo A new deletion criterion of principal components regression with orientations of the parameters. **89d:62058**
— (*with* Birch, Jeffrey B.) Fractional principal components regression: a general approach to biased estimators. (Not in MR)
de Leeuw, Jan *see* **van Montfort, K.; et al.**, **89d:62061**
Leite, José Bezerra A comparison of least-squares approximation and updated approximation in norm 1. (Portuguese. English summary) (Not in MR)
Lesage, James P. *see* **Simon, Stephen D.**, **89h:62112**
Leurgans, Sue Linear models, random censoring and synthetic data. **89e:62082**
Li, Ker-Chau Asymptotic optimality for C_p, C_L, cross-validation and generalized cross-validation: discrete index set. **89c:62112**
Lieftinck-Koeijers, C. A. J. Multivariate calibration: a generalization of the classical estimator. **89g:62103**
Limam, Mohamed M. T. (*with* Thomas, David Reginald) Simultaneous tolerance intervals for the linear regression model. **89i:62112**
Louis, Thomas A. *see* **De Gruttola, V.; et al.**, **89g:62100**
Maekawa, Koichi Comparing the Wald, LR and LM tests for heteroscedasticity in a linear regression model. **89b:62146**
Magee, Lonnie (*with* Ullah, A.; Srivastava, Virendra Kumar) Efficiency of estimators in the regression model with first-order autoregressive errors. **89h:62108**
— Approximating the approximate slopes of LR, W, and LM test statistics. **89h:62109**
— *see also* **Grubb, David**, **89i:62108** *and* **Burbidge, John B.; et al.**, (Not in MR)
Mandel, John (*with* McCrackin, Frank L.) An iterative self-weighting procedure for fitting straight lines to heteroscedastic data. (Not in MR)
Mansfield, Edward R. *see* **Conerly, Michael D.**, (Not in MR)
Mao, Zong Xiu Stepwise regression analysis by MAICE. (Chinese) (Not in MR)
Marco, Virgil R. *see* **Moser, Barry K.**, **89b:62147**
Martínez Crespo, C. J. *see* **Monterrey Gutiérrez, P. A.**, **89d:62060**
Mathieu, Jean-René *see* **Lavergne, Christian**, **89b:62145**
Matthews, J. N. S. Correction to: "Optimal crossover designs for the comparison of two treatments in the presence of carryover effects and autocorrelated errors" [Biometrika 74 (1987), no. 2, 311–320; MR 88g:62141]. **89d:62059**
McCabe, B. P. M. Testing regression models for random effects outliers under elliptical symmetry. **89a:62164**
McCrackin, Frank L. *see* **Mandel, John**, (Not in MR)
McKean, Joseph *see* **Schrader, Ronald M.**, **89e:62085**
Mittag, Hans-Joachim *see* **Schneeweiss, Hans**, **89e:62084**
Monterrey Gutiérrez, P. A. (*with* Martínez Crespo, C. J.) Rate of convergence of the iterative estimation method in the linear model with unknown covariance matrix. (Spanish. English summary) **89d:62060**
van Montfort, K. (*with* Mooijaart, A.; de Leeuw, Jan) Regression with errors in variables: estimators based on third order moments. **89d:62061**
Mooijaart, A. *see* **van Montfort, K.; et al.**, **89d:62061**
Moser, Barry K. (*with* Marco, Virgil R.) Bayesian outlier testing using the predictive distribution for a linear model of constant intraclass form. **89b:62147**
Moses, Lincoln E. *see* **Bloch, Daniel A.**, **89b:62137**
Mudholkar, Govind S. *see* **Dalal, Siddhartha R.**, **89c:62109**
Musiela, M. *see* **Le Breton, Alain**, **89a:62163**
Nagata, Yasushi Unbiased variable selection procedure in regression models. **89b:62148**
Narula, Subhash C. (*with* Wellington, John F.) An efficient algorithm for the MSAE and the MMAE regression problems. (Not in MR)
Nevel′son, M. B. *see* **Khas′minskiĭ, R. Z.**, **89e:62081**
Newey, Whitney K. Adaptive estimation of regression models via moment restrictions. **89j:62088**
Ohtani, Kazuhiro Testing the disturbance variance after a pre-test for a linear hypothesis on coefficients in a linear regression. (Not in MR)
— (*with* Toyoda, Toshihisa) Small sample properties of the two-stage test of equality of individual coefficients after a pre-test for homoscedasticity in two linear regressions. **89g:62104**
Oldford, R. W. On the n-dimensional geometry of regression diagnostics. **89g:62105**
Olguín Uribe, Jorge Freak values in discrete data. (Spanish) (*see* **89k:00010**)
Ol′man, V. *see* **Joala, V.**, **89a:62161**
Owen, D. B. (*with* Horng Shiau, Jyh-Jen) On the duality between points and lines. **89c:62113**
Panchapakesan, S. *see* **Jeyaratnam, S.**, (Not in MR)
Park, Nae Hyun Multivariate linear calibration with univariate controlled variable. **89a:62165**
Park, Soo-Bin *see* **Zellner, Arnold**, **89g:62113**
Park, Sung Hyun *see* **Ahn, Byoung Jin**, **89a:62154**
Paula, Gilberto A. (*with* Peres, Clovis A.) Diagnostics for GLMs with linear inequality parameter constraints. (Not in MR)
Peña, Daniel *see* **Cook, R. Dennis; et al.**, **89c:62108**
Peres, Clovis A. *see* **Paula, Gilberto A.**, (Not in MR)
Phillips, Garry D. A. Erratum: "Recursions for the two-stage least-squares estimators" [J. Econometrics **6** (1977), no. 1, 65–77; MR **57** #10929]. **89b:62149**
Pinsker, I. Sh. (*with* Kipnis, Victor; Grechanovskiĭ, Evgeniĭ) The use of conditional cutoffs in a forward selection procedure. **89g:62106**
Ploberger, Werner (*with* Krämer, Walter) Mean adjustment and the CUSUM test for structural change. **89b:62150**
Portnoy, Stephen *see* **Koenker, Roger**, **89b:62142**
Pötzelberger, K. HPD-regions for the linear regression model. **89h:62110**
— *see also* **Felsenstein, K.**, (**89i:62004**)
Randolph, William C. A transformation for heteroscedastic error components regression models. **89m:62068**
Rao, J. N. K. *see* **Thomas, D. Roland**, **89j:62091**
del Río, Manuel Cook statistic and diagnostics for transformations. **89g:62107**
Robb, A. Leslie *see* **Burbidge, John B.; et al.**, (Not in MR)
Robert, Christian Performances d'estimateurs à rétrécisseur en situation de multicolinéarité. (English summary) [Shrinkage estimators and multicollinearity problems] **89i:62113**
Ronchetti, Elvezio Robust $C(\alpha)$-type test for linear models. **89h:62111**
Rothenberg, Thomas J. Approximate power functions for some robust tests of regression coefficients. **89m:62069**
Rouhi, A. *see* **Soliman, S. A.; et al.**, **89j:62090**
Rukhin, Andrew L. Improved estimation in lognormal regression models. **89a:62166**
Saleh, A. K. Md. Ehsanes (*with* Hassanein, Khatab M.) On various F-estimation in a parallelism problem. **89g:62108**
Schipp, B. (*with* Trenkler, G.; Stahlecker, P.) Minimax estimation with additional linear restrictions. A simulation study. **89e:62083**
Schneeweiss, Hans (*with* Mittag, Hans-Joachim) ★ Lineare Modelle mit fehlerbehafteten Daten. (German) [Linear models with data containing errors] **89e:62084**
Schönfeld, Peter (*with* Werner, Hans-Joachim[1]) A note on C. R. Rao's wider definition BLUE in the general Gauss-Markov model. **89c:62114**
Schrader, Ronald M. (*with* McKean, Joseph) Small sample properties of least absolute errors analysis of variance. **89e:62085**
Schwarz, Gideon Least-absolute-value prediction lines in closed form. **89d:62062**
Searle, Shayle R. ★ Linear models for unbalanced data. **89e:62086**
Shao, Jun (*with* Wu, C.-F. J.) Heteroscedasticity-robustness of jackknife variance estimators in linear models. **89g:62109**
— Sampling and resampling: an efficient approximation to jackknife variance estimators. (Chinese. English summary) **89g:62110**
Sharma, Subhash C. On the consistency property of OLS variance estimator when errors are autocorrelated. (Italian summary) (Not in MR)
— *see also* **Giaccotto, Carmelo**, (Not in MR)
Shively, Thomas S. An analysis of tests for regression coefficient stability. (Not in MR)
Simon, Stephen D. (*with* Lesage, James P.) The impact of collinearity involving the intercept term on the numerical accuracy of regression. **89h:62112**

Singh, Radhey S. Estimation of error variance in linear regression models with errors having multivariate Student-*t* distribution with unknown degrees of freedom. **89j:62089**

Solakov, E. *see* **Vuchkov, I.; et al., 89f:62058**

Soliman, S. A. (*with* Christensen, G. S.; Rouhi, A.) A new technique for curve fitting based on minimum absolute deviations. **89j:62090**

Sonnberger, Harald *see* **Krämer, Walter, 89b:62143**

Sparks, Ross S. A distribution free method of detecting outliers in regression. (Not in MR)

Srivastava, Anil Kumar *see* **Tracy, D. S., 89g:62111**

Srivastava, Virendra Kumar *see* **Magee, Lonnie; et al., 89h:62108**

Stahlecker, P. *see* **Schipp, B.; et al., 89e:62083**

Stein, Gillian Z. (*with* Juritz, June M.) Linear models with an inverse Gaussian-Poisson error distribution. **89b:62151**

Stuchlý, Jaroslav Estimates for parametric functions in a regression model with a random parameter. (Czech. English, German and Russian summaries) **89k:62089**

Tam, S. M. *see* **Brewer, K. R. W.; et al., 89j:62084**

Terãsvirta, Timo (*with* Yi, Gang; Judge, George) Model selection, smoothing and parameter estimation in linear models under squared error loss. (Not in MR)

Terza, Joseph V. Estimating linear models with ordinal qualitative regressors. **89a:62167**

Theil, Henri (*with* Chung, Ching-Fan) Information-theoretic measures of fit for univariate and multivariate linear regressions. **89m:62070**

Thomas, D. Roland (*with* Rao, J. N. K.) On the analysis of categorical variables by linear models having singular covariance matrices. (French summary) **89j:62091**

Thomas, David Reginald *see* **Limam, Mohamed M. T., 89i:62112**

Tibshirani, Robert Estimating transformations for regression via additivity and variance stabilization. (Not in MR)

Toutenburg, Helge ★ MSE-comparisons between restricted least squares, mixed and weighted mixed estimators with special emphasis to nested restrictions. **89f:62057**

Toyoda, Toshihisa *see* **Ohtani, Kazuhiro, 89g:62104**

Toyooka, Yasuyuki An iterated version of the Gauss-Markov theorem in generalized least squares estimation. **89a:62168**

Tracy, D. S. (*with* Srivastava, Anil Kumar) A synthesis of Stein-rule and mixed regression procedures in linear regression models under nonnormality. **89g:62111**

Trenkler, G. Mean square error matrix comparisons among restricted least squares estimators. **89b:62152**

— *see also* **Schipp, B.; et al., 89e:62083**

Tse, S.-K. *see* **Hamada, Michael S., 89j:62086**

Udartsev, E. P. *see* **Kas′yanov, V. A.**, (Not in MR)

Ullah, A. (*with* Giles, David E. A.) The positive-part Stein-rule estimator and tests of linear hypotheses. **89e:62087**

— *see also* **Magee, Lonnie; et al., 89h:62108**

Valencia, G. Choice of variables in regression analysis: the problem of incomplete data. (Spanish) (*see* **89k:00008**)

Veall, Michael R. *see* **Kwok, Ben, 89j:62087**

Velilia Cerdán, Santiago A note on the behaviour of augmented principal-component plots in regression. (Not in MR)

Volaufová, Júlia Note on the estimation of parameters of the mean and the variance in *n*-stage linear models. (Russian and Czech summaries) **89j:62092**

Vuchkov, I. (*with* Boyadzhieva, L.; Solakov, E.) ★ Прикладной линейный регрессионный анализ. (Russian) [Applied linear regression analysis] **89f:62058**

Wang, Song Gui ★ Xianxing moxing de lilun ji qi yingyong. (Chinese) [The theory of linear models and its applications] **89b:62153**

Wang, Suojin *see* **Hinkley, D. V.**, (Not in MR)

Ware, James H. *see* **De Gruttola, V.; et al., 89g:62100**

Weisberg, Sanford *see* **Cook, R. Dennis; et al., 89c:62108**

Wellington, John F. *see* **Narula, Subhash C.**, (Not in MR)

Welsh, A. H. *see* **Carroll, Raymond J., 89h:62099** *and* **de Jongh, P. J.; et al., 89k:62088**

Weng, Li-Jen *see* **Bentler, P. M.; et al., 89b:62136**

Werner, Hans-Joachim[1] *see* **Schönfeld, Peter, 89c:62114**

de Wet, T. *see* **de Jongh, P. J.; et al., 89k:62088**

Wiens, Douglas The nonnull distribution of the beta statistic in the test of the univariate general linear hypothesis, when the error distribution is spherically symmetric. **89i:62114**

Wilcox, Rand R. Pairwise comparisons of J independent regression lines over a finite interval, simultaneous pairwise comparison of their parameters, and the Johnson-Neyman procedure. **89h:62113**

Wu, C.-F. J. *see* **Shao, Jun, 89g:62109**

Wu, Qi Guang Several results on admissibility of a linear estimate of stochastic regression coefficients and parameters. (Chinese. English summary) **89j:62093**

— Admissibility of linear estimates of stochastic regression coefficients and parameters under matrix loss. (Chinese. English summary) **89g:62112**

— *see also* **Dong, Li Ming, 89g:62101**

Wu, Yue Hua Strong consistency and exponential rate of the "minimum L_1-norm" estimates in linear regression models. **89h:62114**

Yi, Gang *see* **Terãsvirta, Timo; et al.**, (Not in MR)

Zaigraev, A. Yu. Design of a regression experiment in a Hilbert space. (Russian) **89k:62090**

— Optimal planning for the best prediction of a linear regression function. **89i:62115**

Zaigraew, A. Yu. A problem of the discrimination of a simple hypothesis with respect to the regression coefficients. (Ukrainian. Russian summary) **89h:62115**

Zellner, Arnold On assessing prior distributions and Bayesian regression analysis with g-prior distributions. **89a:62169**

— (*with* Park, Soo-Bin) Bayesian prediction with random regressors. **89g:62113**

Zheng, Zhong Guo Application of random weighting methods in regression models. (Chinese. English summary) **89i:62116**

Zmyślony, Roman (*with* Drygas, Hilmar) On admissible estimation for parametric functions in linear models. **89j:62094**

Zontek, S. *see* **Klonecki, W., 89h:62107**

Items with secondary classifications in 62J05

Antille, André (*with* Milasevic, Philip) A confidence interval for the slope of a truncated regression. **89i:62053**

Bain, Lee J. *see* **Samaranayake, V. A.**, (Not in MR)

Barlow, Richard (*with* Mensing, R. W.; Smiriga, N. G.) Using influence diagrams to solve a calibration problem. **89f:62060**

Bera, Anil K. *see* **Jarque, Carlos M., 89h:62039**

Bjørnstad, Jan F. (*with* Butler, Ronald W.) The equivalence of backward elimination and multiple comparisons. **89g:62121**

Butler, Ronald W. Extendibility and the optimality of F, T^2 and forward variable selection. **89b:62099**

— *see also* **Bjørnstad, Jan F., 89g:62121**

Carroll, Raymond J. *see* **Wu, Margaret C., 89d:62109**

Chatterjee, Samprit (*with* Hadi, Ali S.) ★ Sensitivity analysis in linear regression. **89i:62002**

Chib, Siddhartha (*with* Tiwari. Ram C.; Jammalamadaka, S. Rao) Bayes prediction in regressions with elliptical errors. **89j:62144**

— *see also* **Jammalamadaka, S. Rao; et al., 89g:62047**

Clarke, Judith A. (*with* Giles, David E. A.; Wallace, T. Dudley) Preliminary-test estimation of the error variance in linear regression. **89d:62111**

Conceição, Eduardo Pinto *see* **Curi, Paulo Roberto**, (Not in MR)

Curi, Paulo Roberto (*with* Conceição, Eduardo Pinto) Least-squares solutions using the Penrose generalized inverse matrix. (Portuguese. English summary) (Not in MR)

De Moor, Bart (*with* Vandewalle, Joos) The uncertainty principle of mathematical modelling. **89e:93204**

Diamond, Phil Fuzzy least squares. **89k:03064**

DiCiccio, T. J. Likelihood inference for linear regression models. **89d:62005**

Dufour, Jean-Marie Estimators of the disturbance variance in econometric models: small-sample bias and the existence of moments. **89b:62217**

— Erratum: "Estimators of the disturbance variance in econometric models: small-sample bias and the existence of moments" [J. Econometrics **37** (1988), no. 2, 277–292; MR 89b:62217]. **89j:62145**

Dupačová, Jitka (*with* Wets, Roger J.-B.) Asymptotic behavior of statistical estimators and of optimal solutions of stochastic optimization problems. **89i:62044**

Durbin, James Maximum likelihood estimation of the parameters of a system of simultaneous regression equations. **89h:62178**

Eaton, Morris L. Group induced orderings with some applications in statistics. **89d:62004**

Ekblom, Håkan A new algorithm for the Huber estimator in linear models. **89g:65175**

Fajardo Caldera, Miguel A. (*with* Gutiérrez Jáimez, Ramón) Characterization of some discrete distributions by linear regression. (Spanish. English summary) **89f:62008**

Fedorov, Valeri Vadimovitch *see* **Tovmachenko, N. N., 89a:62176**

Gaposhkin, V. F. The law of large numbers for linear autoregression processes. **89g:60106**

Giles, David E. A. *see* **Clarke, Judith A.; et al., 89d:62111** *and* **Srivastava, Virender Kumar, 89e:62141**

Guerrero, Victor M. (*with* Johnson, Richard A.) Transforming grouped bivariate data to near normality. **89a:62068**

Gutiérrez Jáimez, Ramón *see* **Fajardo Caldera, Miguel A., 89f:62008**

Hadi, Ali S. *see* **Chatterjee, Samprit, 89i:62002**

Hall, Peter *see* **Hãrdle, W.; et al., 89g:62060**

Härdle, W. (*with* Hall, Peter; Marron, J. S.) How far are automatically chosen regression smoothing parameters from their optimum? **89g:62060**

Heijmans, R. D. H. (*with* Magnus, Jan R.) Corrigenda: "Consistent maximum-likelihood estimation with dependent observations. The general (nonnormal) case and the normal case" [J. Econometrics **32** (1986), no. 2, 253–285; MR 88d:62175]. **89b:62221**

Higham, Nicholas J. (*with* Stewart, G. W.) Numerical linear algebra in statistical computing. **89d:65117**

Hou, Bo Nonuniform estimates for the remainder term in a central limit theorem for error variance estimators in a linear model. (Chinese. English summary) **89a:62050**

Jammalamadaka, S. Rao (*with* Tiwari, Ram C.; Chib, Siddhartha) Bayes prediction in the linear model with spherically symmetric errors. **89g:62047**

— *see also* **Chib, Siddhartha; et al., 89j:62144**

Jarque, Carlos M. (*with* Bera, Anil K.) A test for normality of observations and regression residuals. (French summary) **89h:62039**

Jensen, J. L. Uniform saddlepoint approximations. **89g:60042**

Johnson, Richard A. *see* **Guerrero, Victor M., 89a:62068**

(Johnstone, Iain) *see* **Hãrdle, W.; et al., 89g:62060**

Khatri, C. G. Estimation of the location parameters. **89e:62011**

Kleinbaum, David G. (*with* Kupper, Lawrence L.; Muller, Keith E.) ★ Applied regression analysis and other multivariable methods. **89i:62001**

Klepper, Steven (*with* Stapleton, David C.) Consistent sets of estimates for restricted regressions with errors in all variables. **89a:62226**

— Regressor diagnostics for the classical errors-in-variables model. **89b:62224**

— Bounding the effects of measurement error in regressions involving dichotomous variables. **89g:62166**

Koul, Hira L. (*with* Sievers, Gerald L.; McKean, Joseph) An estimator of the scale parameter for the rank analysis of linear models under general score functions. **89a:62099**

Kupper, Lawrence L. *see* **Kleinbaum, David G.; et al., 89i:62001**

Le Breton, Alain (*with* Musiela, M.) Laws of large numbers for semimartingales with applications to stochastic regression. **89m:60071**

Lee, Seung-Hoon (*with* Yum, Bong-Jin) Large-sample comparisons of statistical calibration procedures when the standard measurement is also subject to error: the replicated case. **89j:62041**

Leroy, Annick M. *see* **Rousseeuw, Peter J., 89e:62043**

Lu, Chang Yu *see* **Zhu, Xian Hai, 89a:62030**

Magnus, Jan R. (*with* Neudecker, Heinz) ★ Matrix differential calculus with applications in statistics and econometrics. **89g:15001**

— *see also* **Heijmans, R. D. H., 89b:62221**

Marron, J. S. *see* **Härdle, W.; et al., 89g:62060**

McKean, Joseph *see* **Koul, Hira L.; et al., 89a:62099**

Mensing, R. W. *see* **Barlow, Richard; et al., 89f:62060**

Milasevic, Philip *see* **Antille, André, 89i:62053**

Muller, Keith E. *see* **Kleinbaum, David G.; et al., 89i:62001**

Musiela, M. *see* **Le Breton, Alain, 89m:60071**

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Neudecker, Heinz *see* **Magnus, Jan R., 89g:15001**

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62J10 Analysis of variance and covariance

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62J15 Paired and multiple comparisons

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62Kxx Experimental design [see also 05Bxx]

62K05 Optimal designs

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Kitsos, C. P. (*with* Titterington, D. M.; Torsney, B.) An optimal design problem in rhythmometry. (French summary) **89h:62128**

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Lau, Tai-Shing D-optimal designs on the unit q-ball. **89k:62093**

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Lee, K. Y. (*with* Jacroux, M.) Some sufficient conditions for the E- and MV-optimality of block designs having blocks of unequal size. **89a:62175**

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Lim, Yong B. Symmetric D-optimal designs for log contrast models with mixtures. **89h:62129**

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Majumdar, Dibyen *see* **Hedayat, A. S.**, **89h:62126** *and* **Cheng, Ching-Shui; et al.**, **89m:62075**

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Matthews, J. N. S. Recent developments in crossover designs. (French summary) **89g:62126**

Mensing, R. W. *see* **Barlow, Richard; et al.**, **89f:62060**

Mukerjee, Rahul (*with* Huda, S.) Minimizing the average variance of the difference between two estimated responses. **89k:62095**

— *see also* **Sen, Mausumi**, **89c:62128** *and* **Huda, S.**, **89m:62077**

Nishii, Ryuei Optimal designs minimizing mean squared error for polynomial regression. **89e:62094**

Odhiambo, J. W. (*with* Patel, M. S.) Three-stage group screening with unequal group sizes and with errors in observations. **89g:62127**

Özkan, Fuat G-optimal second-order response surface designs and some applications. (Turkish summary) **89j:62102**

Patel, M. S. *see* **Odhiambo, J. W.**, **89g:62127**

Peiris, M. Shelton *see* **Singh, Naunihal**, **89h:62131**

Perel'man, I. I. Design of an experiment in problems of the construction of models for control objects. (Russian. English summary) **89f:62063**

Pesotan, H. (*with* Raktoe, B. L.) On invariance and randomization in factorial designs with applications to D-optimal main effect designs of the symmetrical factorial. **89k:62096**

Pukelsheim, Friedrich *see* **Giovagnoli, Alessandra; et al.**, **89a:62174**

Raktoe, B. L. *see* **Pesotan, H.**, **89k:62096**

Roebruck, P. Optimal designs for three-factorial split-plot models with random block effects. **89c:62127**

Rychlik, T. Robust experimental design. A comment on Huber's result. **89e:62095**

Sánchez García, M. *see* **Sicilia Rodríguez, J.**, **89i:62124**

Sanders, Elizabeth R. *see* **Draper, N. R.**, **89i:62122**

Sedunov, E. V. (*with* Sidorenko, N. G.) Unbiased design of an experiment in a Hilbert space. (Russian) **89b:62158**

Sen, Mausumi (*with* Mukerjee, Rahul) Optimal repeated measurements designs under interaction. **89c:62128**

Sicilia Rodríguez, J. (*with* Sánchez García, M.) Construction of initial designs in dynamical experiments. (Spanish. English summary) **89i:62124**

Sidorenko, N. G. *see* **Sedunov, E. V.**, **89b:62158**

Singh, Murari (*with* Dey, Aloke) A note on incomplete block designs for symmetrical parallel line assays. **89g:62128**

Singh, Naunihal (*with* Peiris, M. Shelton) Optimal experimental designs for linear time series models with stochastic coefficients. **89h:62131**

Smiriga, N. G. *see* **Barlow, Richard; et al.**, **89f:62060**

Spokoĭnyĭ, V. G. Design of regression experiments with dependent errors. **89d:62070**

Street, Deborah J. Some repeated measurements designs. **89d:62071**

Studden, W. J. *see* **Lim, Yong B.**, **89i:62123**

Stufken, John *see* **Cheng, Ching-Shui; et al.**, **89m:62075**

Titi, S. K. *see* **Ali, Mohamed Akkas; et al.**, **89j:62099**

Titterington, D. M. *see* **Kitsos, C. P.; et al.**, **89h:62128**

Torsney, B. *see* **Kitsos, C. P.; et al.**, **89h:62128**

Tovmachenko, N. N. (*with* Fedorov, Valeri Vadimovitch) Regression analysis in problems of the design of experiments. (Russian) **89a:62176**

Türe, Tahsin Erkan *see* **Cheng, Ching-Shui; et al.**, **89m:62075**

Vila, J.-P. New algorithmic and software tools for D-optimal design computation in nonlinear regression. (*see* **89i:62004**)

Wang, Chang Yu *see* **Zhang, Zhi Min**, **89h:62133**

Whittinghill, Dexter C., III *see* **Jacroux, M.**, **89f:62061**

Wierich, W. A-optimal design measures for one-way layouts with additive regression. **89h:62132**

Wynn, H. P. *see* **Giovagnoli, Alessandra; et al.**, **89a:62174**

Yanagisawa, Yukio Designs for discrimination between binary response models. **89e:62096**

Yazdi, A. A. *see* **Khan, M. K.**, **89d:62066**

Yeh, Ching-Ming A class of universally optimal binary block designs. **89a:62177**

Zaigraev, A. Yu. Design of a regression experiment with the domain of action in a Hilbert space. (Russian) **89m:62078**

Zergaw, Getachew Searching optimal designs in the presence of serially correlated errors. (Not in MR)

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Items with secondary classifications in 62K05

Cheng, Ching-Shui *see* **Coster, Daniel C.**, **89m:62085**

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Huda, S. *see* **Mukerjee, Rahul**, **89c:62116**

Jimbo, Masakazu *see* **Mukerjee, Rahul; et al.**, **89h:05018**

Kageyama, Sanpei *see* **Mukerjee, Rahul; et al.**, **89h:05018**

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Mukerjee, Rahul (*with* Jimbo, Masakazu; Kageyama, Sanpei) On cyclic semiregular group divisible designs. **89h:05018**

— (*with* Huda, S.) Optimal design for the estimation of variance components. **89c:62116**

Pukelsheim, Friedrich Information increasing orderings in experimental design theory. (French summary) **89i:62127**

Rasch, Dieter Recent results in growth analysis. **89m:62063**

Sacks, Jerome (*with* Schiller, Susannah) Spatial designs. **89c:62168**

Schiller, Susannah *see* **Sacks, Jerome**, **89c:62168**

Verdinelli, Isabella Bayesian experimental designs for models of analysis of variance with one or two factors. (Italian) **89i:62120**

Zaigraev, A. Yu. Design of a regression experiment in a Hilbert space. (Russian) **89k:62090**

— Optimal planning for the best prediction of a linear regression function. **89i:62115**

62K10 Block designs

Azaïs, J.-M. Design of experiments for studying intergenotypic competition. **89b:62159**

Bailey, R. A. Restricted randomization versus blocking. (French summary) **89e:62097**

— Semi-Latin squares. **89b:62160**

Baksalary, Jerzy K. (*with* Puri, P. D.) Criteria for the validity of Fisher's condition for balanced block designs. **89d:62072**

Banerjee, Snigdha (*with* Kageyama, Sanpei; Bhagwandas) Some constructions of two-associate class PBIB designs. **89e:62098**

Bhagwandas *see* **Banerjee, Snigdha; et al.**, **89e:62098**

Ceranka, B. (*with* Mejza, S.) Merging of treatments in certain partially efficiency balanced block designs with two different numbers of replications. **89g:62129**

Chakravarti, I. M. *see* **Morgan, J. P.**, **89j:62104**

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Gupta, L. R. *see* **Puri, P. D., 89k:62100**

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— Type A incomplete multi-response designs. **89j:62103**

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Gupta, Vinod Kumar (*with* Nigam, A. K.; Puri, P. D.) Characterization and construction of incomplete block designs for symmetrical parallel line assays. (Hindi summary) **89m:62082**

Hedayat, A. S. *see* **Foody, W. M., 89k:62097**

Herzberg, Agnes M. (*with* Wynn, H. P.) Nearest neighbour balance and interblock and intrablock analysis in the design of experiments. **89b:62161**

Hora, Stephen C. (*with* Iman, Ronald L.) Asymptotic relative efficiencies of the rank-transformation procedure in randomized complete block designs. (Not in MR)

Iman, Ronald L. *see* **Hora, Stephen C.**, (Not in MR)

John, J. A. *see* **Williams, E. R.**, (Not in MR)

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Kunert, Joachim Neighbour balanced block designs for correlated errors. **89b:62162**

Lee, Youngjo A modification of the combined estimator of inter- and intra-block estimators under an arbitrary convex loss function. **89g:62131**

Lewis, Susan Margaret *see* **Dean, Angela M., 89m:62079**

Mejza, S. *see* **Ceranka, B., 89g:62129**

Morgan, J. P. (*with* Chakravarti, I. M.) Block designs for first and second order neighbor correlations. **89j:62104**

Mukerjee, Rahul *see* **Kageyama, Sanpei, 89a:62178a; 89a:62178b** *and* **89d:62073**

Nigam, A. K. *see* **Gupta, Vinod Kumar; et al., 89m:62082**

Pal, Samarendra Nath *see* **Pal, Satyabrata, 89i:62126**

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Pigeon, J. G. (*with* Raghavarao, D.) Crossover designs for comparing treatments with a control. **89e:62100**

Pratap, Mahendra *see* **Chaudhary, S. S.; et al.**, (Not in MR)

Pukelsheim, Friedrich Information increasing orderings in experimental design theory. (French summary) **89i:62127**

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Raghavarao, D. *see* **Pigeon, J. G., 89e:62100**

Rizwi, S. K. H. *see* **Tyagi, B. N., 89e:62102**

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Saha, G. M. (*with* Das, A. D.) A note on construction of mutually balanced Youden designs. **89d:62074**

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Shah, Shantilal M. *see* **Kageyama, Sanpei; et al., 89h:62135**

Singh, Murari *see* **Gupta, Sudhir C., 89m:62080**

Singh, S. P. *see* **Chaudhary, S. S.; et al.**, (Not in MR)

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Wright, James T. *see* **Federer, W. T.**, (Not in MR)

Wynn, H. P. *see* **Herzberg, Agnes M., 89b:62161**

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Kaur, Jagroop *see* **Singh, Manjit, 89f:05036**

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Majumdar, Dibyen *see* **Cheng, Ching-Shui; et al., 89m:62075**

Makan, G. R. *see* **Misra, B. L., 89a:05031**

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Mukerjee, Rahul *see* **Saha, G. M.; et al., 89f:05050**

Mullen, Gary L. *see* **Hultquist, R. A.; et al., 89f:05032**

Niederreiter, Harald *see* **Hultquist, R. A.; et al., 89f:05032**

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Seiden, Esther *see* **Oman, Samuel D., 89f:62064**

Sharma, Shailaja *see* **Patwardhan, Girish, 89d:05032**

Shrivastava, R. *see* **Parihar, J. S., 89b:05038**

Silcock, H. L. *see* **Speed, T. P., 89c:62121b**

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— *see also* **Davis, A. W., 89d:62019**

Srivastava, Jaya On the inadequacy of the customary orthogonal arrays in quality control and general scientific experimentation, and the need of probing designs of higher revealing power. **89a:62216**

Srzednicka, Jolanta *see* **Gnot, Stanisław, 89e:62089**

Stanton, R. G. *see* **Herzberg, Agnes M., 89f:05031**

Stufken, John *see* **Cheng, Ching-Shui; et al., 89m:62075**

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Weckesser, G. *see* **Haux, R.; et al., 89j:62064**

Willan, Andrew R. *see* **Burnett, Richard T., 89e:62050**

Yeh, Ching-Ming A class of universally optimal binary block designs. **89a:62177**

62K15 Factorial designs

Adhikary, Basudeb On a class of arrays leading to factorial fractions. II. **89b:62163**

— (*with* Das, Premadhis) Construction of grouped arrays. **89i:62128**

Aggarwal, M. L. (*with* Shamsuddin, M. D.) Construction of row-column confounded symmetrical factorial designs. (Italian summary) **89b:62164**

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Bose, Mausumi (*with* Mukerjee, Rahul) Factorial designs for quality-quantity interaction. **89d:62078**

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Cheng, Ching-Shui *see* **Coster, Daniel C., 89m:62085**

Coster, Daniel C. (*with* Cheng, Ching-Shui) Minimum cost trend-free run orders of fractional factorial designs. **89m:62085**

Das, M. N. *see* **Shil, R. N., 89m:62087**

Das, Premadhis *see* **Adhikary, Basudeb, 89i:62128**

Dean, Angela M. *see* **Voss, Daniel T., 89c:62131**

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Dudewicz, Edward J. *see* **Taneja, Baldeo K., 89b:62168**

Fletcher, David J. A new class of change-over designs for factorial experiments. **89a:62179**

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Ghosh, Subir (*with* Zhang, Xiao Di) Two new series of search designs for 3^m factorial experiments. **89g:62133**

Gupta, Bhisham Chand A bound connected with 2^6 factorial search designs of resolution 3.1. **89m:62086**

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John, J. A. *see* **Draper, N. R.**, (Not in MR)

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Karmakar, P. K. *see* **Ghosh, Dilip Kumar, 89k:62102**

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— On the characteristic polynomials of the information matrices of partially balanced fractional $2^{m_1+m_2}$ factorial designs of resolution VII. **89h:62136**

— (*with* Nishii, Ryuei) On the characteristic polynomial of the information matrix of balanced fractional s^m factorial designs of resolution $V_{p,q}$. **89b:62165**

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— (*with* Bose, Mausumi) Nonequireplicate Kronecker factorial designs. **89j:62106**

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Nelson, Peter R. Testing for interactions using the analysis of means. **89b:62166**

Nishii, Ryuei *see* **Kuwada, Masahide, 89b:62165**

Oman, Samuel D. (*with* Seiden, Esther) Switch-back designs. **89f:62064**

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Pregibon, D. *see* **Nair, Vijayan N.**, (Not in MR)

Saha, G. M. *see* **Kageyama, Sanpei; et al., 89k:62103**

Seiden, Esther *see* **Oman, Samuel D., 89f:62064**

Sen, Mausumi *see* **Mukerjee, Rahul, 89j:62105**

Shamsuddin, M. D. *see* **Aggarwal, M. L., 89b:62164**

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— Generalized modulus-ratio tests for analysis of factorial designs with zero degrees of freedom for error. **89m:62088**

— (*with* Dean, Angela M.) On confounding in single replicate factorial experiments. **89c:62131**

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Dean, Angela M. (*with* Lewis, Susan Margaret) Towards a general theory for the construction of designs with crossed blocking factors. **89m:62079**

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— On the robustness of balanced fractional 2^m factorial designs of resolution $2l+1$ in the presence of outliers. **89d:62067**

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Raktoe, B. L. *see* **Pesotan, H., 89k:62096**

Roebruck, P. Optimal designs for three-factorial split-plot models with random block effects. **89c:62127**

Yoshizawa, Mitsuo On schematic orthogonal arrays $OA(q^t, k, q, t)$. **89g:05034**

62K99 None of the above, but in this section

Blumbergs, A. A. (*with* Grundspenkis, Janis) Principles of automization of the design of experiments for dynamic systems. (Russian) (*see* **89h:00001**)

Cornell, John A. *see* **Khuri, André I., 89d:62079**

Cox, David Roxbee A note on design when response has an exponential family distribution. (Not in MR)

González Sierra, M. A. (*with* Sánchez García, M.) The design of experiments: exploration of the control space. (Spanish. English summary) (*see* **89d:00009**)

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Hwang, F. K. (*with* Sós, Vera T.) Nonadaptive hypergeometric group testing. **89c:62133**

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Morgan, J. P. Balanced polycross designs. **89k:62104**

Njui, F. (*with* Patel, M. S.) Fifth order rotatability. **89e:62104**

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Mitchell, Chris (*with* Piper, Fred C.) Key storage in secure networks. **89j:68035**

Nilrat, C. K. (*with* Praeger, Cheryl E.) Complete Latin squares: terraces for groups. **89i:05060**

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Praeger, Cheryl E. *see* **Nilrat, C. K., 89i:05060**

Pyatnitsyn, B. N. (*with* Vovk, S. N.) Induction and multifactor experimentation. (Russian) **89c:03040**

(Speed, T. P.) *see* **Tjur, Tue, 89h:62123**

Tjur, Tue Analysis of variance models in orthogonal designs. (French summary) **89h:62123**

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(Wynn, H. P.) *see* **Tjur, Tue, 89h:62123**

62Lxx Sequential methods

62L05 Sequential design

Agrawal, Rajeev (*with* Hegde, Manjunath V.; Teneketzis, Demosthenis) Asymptotically efficient adaptive allocation rules for the multiarmed bandit problem with switching cost. **89k:62105**

Anantharam, Venkatachalam (*with* Varaiya, P.) Asymptotically efficient rules in multiarmed bandit problems. **89m:62090**

Belokopytov, A. Ya. A lower bound in a problem of sequential design of screening experiments. (Russian) **89k:62106**

Brodskiĭ, B. E. *see* **Darkhovskiĭ, B. S., 89a:62180**

Clayton, Murray K. (*with* Witmer, Jeffrey A.) Two-stage bandits. **89m:62091**

Darkhovskiĭ, B. S. (*with* Brodskiĭ, B. E.) A nonparametric method for the fastest detection of a change in the mean of a random sequence. (Russian) **89a:62180**

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Jones, Peter Watts (*with* Madhi, S. A.) Bayesian minimum sample size designs for the Bernoulli selection problem. **89e:62105**

Madhi, S. A. *see* **Jones, Peter Watts, 89e:62105**

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Mandelbaum, Avi Continuous multi-armed bandits and multiparameter processes. **89b:62169**

McCormick, William P. (*with* Mallik, Ashim K.; Reeves, Jaxk Halbert) Strong consistency of the MLE for sequential design problems. **89f:62065**

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Reeves, Jaxk Halbert *see* **McCormick, William P.; et al., 89f:62065**

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Witmer, Jeffrey A. *see* **Clayton, Murray K., 89m:62091**

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Dudewicz, Edward J. *see* **Mishra, Satya N., 89b:62064**

Fairbanks, Kenneth A two-stage life test for the exponential parameter. **89c:62173**

González Sierra, M. A. (*with* Sánchez García, M.) The design of experiments: exploration of the control space. (Spanish. English summary) (*see* **89d:00009**)

Katehakis, Michael N. (*with* Veinott, Arthur F., Jr.) The multi-armed bandit problem: decomposition and computation. **89a:90154**

Lai, T. L. Boundary crossing problems for sample means. **89h:60056**

Lanery, E. Solutions bayesiennes sans désintégration. [Bayes solutions without disintegration] **89a:60124**

Mishra, Satya N. (*with* Dudewicz, Edward J.) Simultaneous selection of extreme populations: a subset selection approach. **89b:62064**

Mukhopadhyay, Nitis Asymptotic considerations for selecting the best component of a multivariate normal population. **89a:62060**

Pardo, Leandro Information energy in sequential sampling: application to normal populations. (Spanish. English summary) **89b:62016**
Sánchez García, M. *see* **González Sierra, M. A.**, (**89d:00009**)
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Yushkevich, A. A. On the two-armed bandit problem with continuous time parameter and discounted rewards. **89k:90172**

62L10 Sequential analysis

Andrews, D. M. *see* **David, H. A., 89m:62092**
Bather, John Stopping rules and ordered families of distributions. **89j:62108**
Berger, J. O. (*with* Berry, Donald A.) The relevance of stopping rules in statistical inference. **89c:62134**
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Chang, I. Shou (*with* Hsiung, Chao Agnes) Counting process approach to time-sequential and sequential point estimation with censored data. **89j:62109**
Cressie, Noel (*with* Morgan, Peter B.) The VPRT: optimal sequential and nonsequential testing. **89c:62135**
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David, H. A. (*with* Andrews, D. M.) Closed adaptive sequential paired-comparison selection procedures. **89m:62092**
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Eger, Karl-Heinz (*with* Wunderlich, Ralf) Sequentielle Tests bei klassifizierten Beobachtungen. [Sequential tests in classified observations] **89m:62093**
Höpfner, Reinhard A remark on stopping times associated with continuous-time ergodic Markov chains and an application to statistical inference in birth-and-death processes. **89c:62136**
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Joshi, Suneeta M. (*with* Nabar, S. P.) Sequential analysis applied to testing the scale parameter in the problem of the Nile. (Not in MR)
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Kim, Kyungmann Improved approximation for estimation following closed sequential tests. **89b:62171**
Lai, T. L. Nearly optimal sequential tests of composite hypotheses. **89i:62130**
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McAleer, Michael (*with* Tse, Y. K.) A sequential testing procedure for outliers and structural change. **89h:62138**
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— Sequential control and estimation of system reliability indices which take information on elements into account. **89c:62177**
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Tong, Yung Liang Interval estimation of the critical value in a general linear model. **89g:62096**
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Zybert, Patricia (*with* Levin, Bruce) Selecting the highest of three binomial probabilities. **89a:62063**

62L12 Sequential estimation

Adke, S. R. (*with* Murphree, E. S.) Efficient sequential estimation for compound Poisson processes. **89e:62107**
Akbar, S. A. *see* **Ramkaran; et al., 89j:62112**
Bai, Do Sun (*with* Kim, Myung Soo; Jang, Joong Soon) Efficient sequential estimation in a compound Poisson process. **89a:62181**
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Ekwo, M. E. *see* **Mukhopadhyay, Nitis, 89b:62175**
Gardiner, Joseph C. (*with* Susarla, V.; Van Ryzin, John) On bounded length confidence intervals for quantiles of the survival distribution. **89b:62173**
Ghosh, Bhaskar K. On the attainment of the Cramér-Rao bound in the sequential case. **89b:62174**
Govindarajulu, Z. Fixed-width confidence interval estimation of scale parameter of exponential distribution with unknown location. **89k:62108**
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— Sequential estimation for the generalized exponential hyperbolic secant process. **89i:62133**
Męczarski, Marek On fixed-precision estimation of the minimum of a regression function and of the minimum of a random variable. (Polish. English summary) **89e:62108**
Mel′nikov, A. V. (*with* Novikov, A. A.) Sequential inferences with guaranteed accuracy for semimartingales. (Russian) **89k:62109**
Meslem, Abd-El-Hakim Asymptotic expansions for fixed width confidence interval. **89g:62139**
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Molina Fernández, M. (*with* Hermoso Carazo, A.) Sequential inference in diffusion branching processes. (Spanish. English summary) **89i:62134**
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— A note on estimating the range of a uniform distribution. **89g:62140**
— Sequential estimation problems for negative exponential populations. **89j:62111**
Murphree, E. S. *see* **Adke, S. R., 89e:62107**
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Pruscha, Helmut Sequential estimation functions in stochastic population processes. **89b:62176**
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Różański, Roman Minimax sequential estimation in random fields application to the Ornstein-Uhlenbeck case. **89a:62183**
— Sequential estimation in random fields. **89j:62113**
Sen, Pranab Kumar Sequential estimation of the size of a finite population. **89h:62139**
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Chang, I. Shou (*with* Hsiung, Chao Agnes) Counting process approach to time-sequential and sequential point estimation with censored data. **89j:62109**
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Keener, Robert Asymptotic expansions in nonlinear renewal theory. **89g:60265**

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Leite, José Galvão (*with* Bolfarine, Heleno; Rodrigues, Josemar) Exact expressions for the posterior mode of a finite population size: capture-recapture sequential sampling. **89b:62026**
— (*with* Oishi, Jorge; Pereira, C. A. de B.) A note on the exact maximum likelihood estimation of the size of a finite and closed population. **89d:62012**
Nayak, Tapan Kumar Estimating population size by recapture sampling. **89e:62131**
Nickerson, David M. Sequential shrinkage estimation of the difference between two multivariate normal means. **89g:62137**
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Pergamenshchikov, S. M. *see* **Konev, V. V., 89k:93195**
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Sørensen, Michael On sequential maximum likelihood estimation for exponential families of stochastic processes. (French summary) **89h:62145**
Sriram, T. N. Sequential estimation of the autoregressive parameter in a first order autoregressive process. **89d:62098**

62L15 Optimal stopping [see also 60G40]

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Mandelbaum, Avi Navigating and stopping multiparameter bandit processes. **89j:62114**
Müller-Funk, U. (*with* Pukelsheim, Friedrich; Witting, Hermann) Locally most powerful tests for two-sided hypotheses. **89e:62110**
Pukelsheim, Friedrich *see* **Müller-Funk, U.; et al., 89e:62110**
Sierociński, Andrzej About a fixed precision estimation of the parameter of uniform density. **89d:62082**
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Walrand, Jean *see* **Anantharam, Venkatachalam; et al., 89h:62140** *and* **89h:62141**
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Ahlswede, Rudolf (*with* Wegener, Ingo) ★ Search problems. **89c:68019**
Bather, John Stopping rules and ordered families of distributions. **89j:62108**
— *see also* **Benkherouf, L., 89e:90068**
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Fristedt, Bert (*with* Berry, Donald A.) Optimality of myopic stopping times for geometric discounting. **89g:60154**
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(**Wotschke, Jean E.**) *see* **Ahlswede, Rudolf, 89c:68019**
Yasuda, Masami The optimal value of Markov stopping problems with one-step look ahead policy. **89g:90237**
Yoshida, Minoru A construction scheme of the minimal dominating supermartingale arising in the discrete parameter optimal stopping problems. **89b:60117**

62L20 Stochastic approximation

Chen, Han Fu (*with* Wu, Chun Tao; Zhu, Yun Min) Continuous-time stochastic approximation procedure with randomly varying truncations. **89b:62179**
— (*with* Zhu, Yun Min) Asymptotic properties of a stochastic truncation algorithm. (Chinese) **89g:62141**
— (*with* Lei, Guo; Gao, Ai Jun) Convergence and robustness of the Robbins-Monro algorithm truncated at randomly varying bounds. **89b:62180**
Chen, Hung Lower rate of convergence for locating a maximum of a function. **89i:62135**
Chikin, D. O. Convergence of stochastic approximation procedures in the presence of dependent noise. **89g:62142**
Fabian, Václav The local asymptotic minimax adaptive property of a recursive estimate. **89i:62136**
Föglein, J. On the rate of convergence of a dynamic stochastic approximation method. (Russian summary) **89d:62083**
Gao, Ai Jun *see* **Chen, Han Fu; et al., 89b:62180**
Goldstein, Larry Mark Minimizing noisy functionals in Hilbert space: an extension of the Kiefer-Wolfowitz procedure. **89h:62142**
— On the choice of step size in the Robbins-Monro procedure. **89d:62084**
Han, Ghang Ryong *see* **Li, Gab Dok, 89k:62110**
Hanák, Gábor Stopping rules for stochastic approximation methods. **89f:62068**
Kaniovskiĭ, Yu. M. Limit theorems for stochastic approximation processes in the case when the regression function has several roots. (Russian. English summary) **89i:62137**
— Limit distribution of processes of stochastic approximation type when the regression function has several roots. **89m:62098**
Komarov, S. V. (*with* Krasulina, T. P.) Investigation of a multidimensional Robbins-Monro process. **89j:62115**
Krasulina, T. P. One-sided convergence of a modified Robbins-Monro process. (Russian. English summary) **89i:62138**
— *see also* **Komarov, S. V., 89j:62115**
Lei, Guo *see* **Chen, Han Fu; et al., 89b:62180**
Li, Gab Dok (*with* Han, Ghang Ryong) Stochastic approximation methods based on observations with biases. (Korean. English summary) **89k:62110**
Mel'nikov, A. V. Procedures for stochastic approximation in the statistics of processes of semimartingale type. **89k:62111**
Moiseev, E. V. (*with* Nekrutkin, V. V.) On the rate of convergence of some random search algorithms. (Russian. English summary) **89a:62185**
Nekrutkin, V. V. *see* **Moiseev, E. V., 89a:62185**
Watanabe, Masafumi Mean convergence of stochastic approximation algorithms with correlated errors. **89e:62111**
Wei, C. Z. Multivariate adaptive stochastic approximation. **89a:62186**
Wu, Chun Tao *see* **Chen, Han Fu; et al., 89b:62179**
Yin, Gang George *see* **Zhu, Yun Min, 89h:62143**
Zhu, Yun Min (*with* Yin, Gang George) ★ Convergence speed and asymptotic distribution of a parallel Robbins-Monro method. **89h:62143**
— Optimal allocation of the number of iterations for a class of stochastic approximation problems. (Chinese. English summary) **89j:62116**
— *see also* **Chen, Han Fu; et al., 89b:62179** *and* **89g:62141**

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Baranov, A. P. A method for estimating Mahalanobis distance. **89i:62086**
Dupuis, Paul Large deviations analysis of some recursive algorithms with state dependent noise. **89i:60062**
Grabauskas, V. Weak convergence of processes generated by stochastic algorithms. (Russian. English and Lithuanian summaries) **89g:60074**
Kushner, Harold J. (*with* Yin, Gang George) Asymptotic properties of distributed and communicating stochastic approximation algorithms. **89c:60028**
Wardi, Y. A stochastic steepest-descent algorithm. **89m:90146**
Yin, Gang George *see* **Kushner, Harold J., 89c:60028**

62L99 None of the above, but in this section

Items with secondary classifications in 62L99

Bartoszewicz, Artur Consistency of tests in noncommutative statistics. **89g:46101**
Huang, Wên T'ao (*with* Wu, Chin Chuan) Sequential selection of a best coin. **89e:62026**
Lai, T. L. (*with* Ying, Zhiliang) Open bandit processes and optimal scheduling of queueing networks. **89f:90187**
Sanchez, Susan M. A modified least-failures sampling procedure for Bernoulli subset selection. **89a:62061**
Wu, Chin Chuan *see* **Huang, Wên T'ao, 89e:62026**
Ying, Zhiliang *see* **Lai, T. L., 89f:90187**

62Mxx Inference from stochastic processes

Tong, Howell Nonlinear time series models of regularly sampled data: a review. (Chinese summary) (Not in MR)

Items with secondary classifications in 62Mxx

Deistler, Manfred *see* **Hannan, E. J., 89m:60085**
Gore, Sharad D. Classification of a correlated random walk using its ladder processes. **89h:60113**
Hannan, E. J. (*with* Deistler, Manfred) ★ The statistical theory of linear systems. **89m:60085**

Keegel, J. C. *see* **Kullback, S.; et al., 89b:62015**
Kullback, J. H. *see* **Kullback, S.; et al., 89b:62015**
Kullback, S. (*with* Keegel, J. C.; Kullback, J. H.) ★ Topics in statistical information theory. **89b:62015**

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62M02 Markov processes: hypothesis testing

Berry, Steven (*with* Briggs, Hugh) A nonparametric test of a first-order Markov process for regimes in a noncooperatively collusive industry. **89i:62139**
Briggs, Hugh *see* **Berry, Steven, 89i:62139**
Dragalin, V. P. (*with* Novikov, A. A.) Asymptotic solution of the Kiefer-Weiss problem for processes with independent increments. (Russian) **89f:62069**
Novikov, A. A. *see* **Dragalin, V. P., 89f:62069**
de Stavola, Bianca L. Testing departures from time homogeneity in multistate Markov processes. (Not in MR)
Yamazoe, Shirō Distribution of test statistic of aggregate data from Markov chains. (Japanese. English summary) **89b:62181**

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Jain, Sudha (*with* Templeton, J. G. C.) Statistical inference for $G/M/1$ queueing system. **89j:90125**
Phelan, Michael J. Inference from censored Markov chains with applications to multiwave panel data. **89j:92060**
Templeton, J. G. C. *see* **Jain, Sudha, 89j:90125**

62M05 Markov processes: estimation

Anisimov, V. V. (*with* Preobrazhenskaya, I. V.) Estimation of the parameters of observations at random times of a Poisson flow with switchings. (Russian) **89a:62187**
Badalbaev, I. S. Properties of a statistical estimate for the Perron root of the matrix of mathematical expectations of a multitype Galton-Watson branching process. (Russian) **89b:62182**
Belyaev, Yu. K. (*with* Lumel'skiĭ, Ya. P.) Multidimensional Poisson walks. **89i:62140**
Helmes, K. The asymptotic behaviour of the maximum likelihood estimates for a class of diffusion processes. **89c:62140**
Heyde, C. C. On combining quasilikelihood estimating functions. **89c:62141**
Höpfner, Reinhard Asymptotic inference for continuous-time Markov chains. **89h:62144**
Kahle, Waltraud (*with* Tiedge, Jürgen) Konfidenzbereiche für die Parameter des Wienerprozesses und einige Kenngrößen der Zuverlässigkeit. [Confidence regions for the parameters of the Wiener process and some characteristics of reliability] **89m:62099**
Kutoyants, Yu. A. An example of an estimate for the parameter of a nondifferentiable drift coefficient. **89e:62112**
Lumel'skiĭ, Ya. P. *see* **Belyaev, Yu. K., 89i:62140**
Mukhitdinov, A. Limit theorems for some statistics in subcritical multitype branching processes. (Russian) **89c:62142**
Nanthi, K. (*with* Wasan, M. T.) ★ Statistical estimation for stochastic processes. **89f:62070**
Preobrazhenskaya, I. V. *see* **Anisimov, V. V., 89a:62187**
Pruscha, Helmut Estimating a parametric trend component in a continuous-time jump-type process. **89f:62071**
Rust, John Maximum likelihood estimation of discrete control processes. **89k:62112**
Shakenov, K. K. On the variance of an estimate. (Russian) (*see* **89j:00026**)
Sørensen, Michael On sequential maximum likelihood estimation for exponential families of stochastic processes. (French summary) **89h:62145**
Tiedge, Jürgen *see* **Kahle, Waltraud, 89m:62099**
Tsánkova, Iva P. Estimation of the order of Markov chains. I. Akaike's information criterion for the case of discrete-time Markov processes. **89g:62143**
Wasan, M. T. *see* **Nanthi, K., 89f:62070**

Items with secondary classifications in 62M05

Bai, Do Sun (*with* Kim, Myung Soo; Jang, Joong Soon) Efficient sequential estimation in a compound Poisson process. **89a:62181**
Banek, Tadeusz Filtering of some nonlinear diffusions satisfying the general Beneš condition. **89k:93201**
Dayan, R. È. Estimation of the drift parameter in the almost smooth case. (Russian. Armenian summary) **89c:62144**
Guyon, Xavier Estimation d'un champ par pseudo-vraisemblance conditionnelle: étude asymptotique et application au cas markovien. (English summary) [Estimation of a field by pseudoconditional likelihood: asymptotic study and application to the Markov case] **89g:62029**
Heinrich, Lothar Asymptotic Gaussianity of some estimators for reduced factorial moment measures and product densities of stationary Poisson cluster processes. **89f:60023**
Höpfner, Reinhard A remark on stopping times associated with continuous-time ergodic Markov chains and an application to statistical inference in birth-and-death processes. **89c:62136**
Jang, Joong Soon *see* **Bai, Do Sun; et al., 89a:62181**
Janžura, M. Prediction in zero-one random sequences. (Russian summary) **89c:60119**
Kalaba, Robert E. (*with* Tesfatsion, Leigh) Exact sequential filtering, smoothing and prediction for nonlinear systems. **89j:93105**
Kim, Myung Soo *see* **Bai, Do Sun; et al., 89a:62181**
Korostelëv, A. P. Recurrent nonparametric estimation based on the observation of the path of a process with independent increments. **89m:62038**
Magiera, Ryszard Admissible sequential polynomial estimators for stochastic processes. **89a:62182**
Osborne, M. R. *see* **Prvan, Tania, 89f:93044**
Pei, Lu Cheng The track contribution Monte Carlo method. (Chinese. English summary) **89i:82110**
Phelan, Michael J. Inference from censored Markov chains with applications to multiwave panel data. **89j:92060**
Pruscha, Helmut Sequential estimation functions in stochastic population processes. **89b:62176**
Prvan, Tania (*with* Osborne, M. R.) A square-root fixed-interval discrete-time smoother. **89f:93044**
Różański, Roman Sequential estimation in random fields. **89j:62113**
Tesfatsion, Leigh *see* **Kalaba, Robert E., 89j:93105**

62M07 Non-Markovian processes: hypothesis testing

Apoyan, G. T. (*with* Kutoyants, Yu. A.) On compensator estimation of inhomogeneous Poisson process. (Russian summary) **89g:62144**
Campillo, Fabien Testing for a change-point in linear systems with incomplete observation. **89g:62145**
Kutoyants, Yu. A. *see* **Apoyan, G. T., 89g:62144**
Mel'nikov, A. V. The disorder problem for semimartingales. **89m:62100**
Ramakrishna Sarma, Y. Asymptotic properties of Rao's test for testing hypotheses in discrete parameter stochastic process. **89f:62072**

62M09 Non-Markovian processes: estimation

Alekseev, V. G. On the problem of the isolation of a trend of a homogeneous random field. (Russian) **89e:62113**
Apoyan, G. T. An estimate for the parameter of a nondifferentiable drift coefficient. (Russian. Armenian summary) **89c:62143**
Beder, Jay H. A sieve estimator for the covariance of a Gaussian process. **89f:62073**
Dahlhaus, Rainer (*with* Künsch, H.) Edge effects and efficient parameter estimation for stationary random fields. **89g:62146**
Dayan, R. È. Estimation of the drift parameter in the almost smooth case. (Russian. Armenian summary) **89c:62144**
Deniau, Claude (*with* Oppenheim, Georges; Viano, Marie-Claude) Estimation de paramètre par échantillonnage aléatoire. (English summary) [Random sampling and parametric estimation] **89b:62183**
Dia, Galaye Étude d'un estimateur de la fonction de régression pour un processus ponctuel à valeurs dans $\mathbf{R}_+^s \times \mathbf{R}$ $(s \geq 1)$. [Study of the estimator of the regression function for a point process with values in $\mathbf{R}_+^s \times \mathbf{R}$ $(s \geq 1)$] **89d:62085**
Dodunekova, Rositsa Extremal properties of a linear minimax estimate in a stochastic model. (Russian) **89d:62086**
Fiksel, Thomas Estimation of interaction potentials of Gibbsian point processes. **89g:62147**
Jacobsen, Martin Maximum likelihood estimation in the multiplicative intensity model: a survey. (French summary) **89h:62146**
Koch, Giorgio Comparison of some statistical methods for counting process observations. **89a:62188**
Kochmala, I. V. Asymptotic estimation in the statistics of processes with a discrete component. (Russian. English and Georgian summaries) **89a:62189**
Künsch, H. *see* **Dahlhaus, Rainer, 89g:62146**
Kupper-Viaud, Mireille Estimation et modélisation du lien entre deux processus à indices dans $\mathbf{Z}^2$ et applications à l'épidémiologie. (English summary) [Estimation and modelization of the relation between two processes indexed in $\mathbf{Z}^2$, and applications to epidemiology] **89e:62114**
Leśkow, Jacek Estimation of the periodic function in the multiplicative intensity model. **89b:62184**
Lloyd, C. J. Optimal martingale estimating equations in a stochastic process. **89a:62190**
Oleshko, T. A. Estimation of the expectation of a normal stationary process. (Russian) **89c:62145**
Oppenheim, Georges *see* **Deniau, Claude; et al., 89b:62183**
Stein, Michael L. Asymptotically efficient prediction of a random field with a misspecified covariance function. **89c:62146**
Uryas'eva, O. M. An estimate for the mean of a homogeneous and an isotropic random field. (Russian) **89d:62087**
Veres, S. Parameter dependent asymptotic normality for vector elementary Gaussian processes. **89j:62117**
— On the overparameterized maximum likelihood estimation of ARMA processes. **89m:62101**
— Asymptotic distribution of maximum likelihood estimators for nonstationary autoregressive processes. (Russian summary) **89d:62088**
Viano, Marie-Claude *see* **Deniau, Claude; et al., 89b:62183**

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Arjas, E. (*with* Haara, P.) A logistic regression model for hazard: asymptotic results. **89a:62207**
Byvaĭkov, M. E. (*with* Romashchev, A. A.) Synthesis of a difference equation for statistical estimation and forecasting. (Russian. English summary) **89b:62201**
Friedlander, B. *see* **Stoica, Petre; et al., 89c:62162**
Haara, P. *see* **Arjas, E., 89a:62207**
Hermoso Carazo, A. *see* **Molina Fernández, M., 89i:62134**
Heyde, C. C. On combining quasilikelihood estimating functions. **89c:62141**
— Asymptotic efficiency results for the method of moments with application to estimation for queueing processes. **89i:60181**
Ioannides, D. (*with* Roussas, G. G.) Note on the uniform convergence of density estimates for mixing random variables. **89b:62083**
Khas'minskiĭ, R. Z. (*with* Nevel'son, M. B.) On the parameter estimation for the linear regression. **89e:62081**
Kreiss, Jens-Peter On adaptive estimation in stationary ARMA processes. **89a:62081**
Magiera, Ryszard Sequential estimation for the generalized exponential hyperbolic secant process. **89i:62133**
Mel'nikov, A. V. (*with* Novikov, A. A.) Sequential inferences with guaranteed accuracy for semimartingales. (Russian) **89k:62109**

Molina Fernández, M. (*with* Hermoso Carazo, A.) Sequential inference in diffusion branching processes. (Spanish. English summary) **89i:62134**
Nanthi, K. (*with* Wasan, M. T.) ★ Statistical estimation for stochastic processes. **89f:62070**
Nevel'son, M. B. *see* **Khas'minskiĭ, R. Z., 89e:62081**
Novikov, A. A. *see* **Mel'nikov, A. V., 89k:62109**
Richardson, Sylvia Testing the association between two spatial processes. A review of different approaches. (French summary) **89d:62096**
Romashchev, A. A. *see* **Byvaĭkov, M. E., 89b:62201**
Roussas, G. G. *see* **Ioannides, D., 89b:62083**
Söderström, Torsten *see* **Stoica, Petre; et al., 89c:62162**
Stoica, Petre (*with* Friedlander, B.; Söderström, Torsten) Asymptotic bias of the high-order autoregressive estimates of sinusoidal frequencies. **89c:62162**
Szeidl, László On the estimation of cross dispersion function. **89k:60051**
Wasan, M. T. *see* **Nanthi, K., 89f:62070**

62M10 Time series, auto-correlation, regression, etc. [see also 90A20]

Abraham, B. (*with* Vijayan, Kaipillil) A statistic to check model adequacy in time series. (Not in MR)
— *see also* **Thavaneswaran, A., 89c:62164** *and* **de Gooijer, Jan G.; et al., 89h:62150**
Ahn, Sung K. (*with* Reinsel, Gregory C.) Nested reduced-rank autoregressive models for multiple time series. (Not in MR)
Akram, M. Recursive transformation matrices for linear dynamic system models. **89c:62147**
Al-Osh, M. (*with* Alzaid, A.) First-order integer-valued autoregressive (INAR(1)) process. **89a:62191**
— *see also* **Alzaid, A., 89f:62074**
Alvoni, E. An algorithm for time series decomposition using state-space models with singular transition matrix. (*see* **89i:62004**)
Alzaid, A. (*with* Al-Osh, M.) First-order integer-valued autoregressive (INAR (1)) process: distributional and regression properties. **89f:62074**
— *see also* **Al-Osh, M., 89a:62191**
Anděl, Jiří On linear processes with given moments. **89h:62147**
— Periodic autoregression with exogenous variables and equal variances. **89i:62141**
— On AR(1) processes with exponential white noise. **89i:62142**
— (*with* Gómez, María) Two-dimensional long memory models. **89e:62115**
— (*with* Zvára, Karel) Tables for AR(1) processes with exponential white noise. **89i:62143**
Anderson, Oliver D. (*with* de Gooijer, Jan G.) Sampled autocovariance and autocorrelation results for linear time processes. **89e:62116**
Arbia, Giuseppe Problems in the estimation of the spatial autocorrelation function arising from the form of the weights matrix. (*see* **89e:90072**)
Arnold, Barry C. *see* **Yeh, Hsiao Chên; et al., 89i:62156**
Baltrūnas, Jonas (*with* Nakutis, Evaldas; Šležas, Vincas) Identification of nonlinear stochastic autoregressive-moving average processes in a class of parametric models. (Russian. Lithuanian summary) **89c:62148**
Basseville, M. (*with* Benveniste, A.; Moustakides, G.; Rougée, A.) Detection of abrupt changes in the modal characteristics of nonstationary vector signals. **89c:62149**
Basu, A. K. (*with* Sen Roy, S.) On asymptotic prediction problems for multivariate autoregressive models in the unstable nonexplosive case. **89b:62185**
Battaglia, Francesco On the estimation of the inverse correlation function. **89c:62150**
Beder, Jay H. Estimating a covariance function having an unknown scale parameter. **89j:62118**
Bekki, Keisuke *see* **Yamada, Sumasu; et al., 89m:62107**
Benveniste, A. *see* **Basseville, M.; et al., 89c:62149**
Bierens, Herman J. ARMA memory index modeling of economic time series. **89k:62113**
Boero, Gianna Vector autoregression models: a time series approach to macroeconomic modelling. (*see* **89a:62003**)
Bollerslev, Tim On the correlation structure for the generalized autoregressive conditional heteroskedastic process. (Not in MR)
Bose, Arup Edgeworth correction by bootstrap in autoregressions. **89i:62144**
— Higher order approximations for autocovariances from linear processes with applications. **89g:62148**
Boshnakov, Georgi N. A method for structural identification of time series models. (Bulgarian summary) (*see* **89c:00038**)
Brockwell, Peter J. *see* **Liu, Jian^3, 89j:62127**
Burridge, Peter (*with* Wallis, Kenneth F.) Prediction theory for autoregressive-moving average processes. **89h:62148**
Carlucci, Francesco (*with* Zornitta, Gino) Bayesian prevision of time series by transfer function models. **89h:62149**
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Chan, N. H. (*with* Wei, C. Z.) Asymptotic inference for nearly nonstationary AR(1) processes. **89c:62151**
— (*with* Wei, C. Z.) Limiting distributions of least squares estimates of unstable autoregressive processes. **89b:62186**
Chang, Ih (*with* Tiao, George C.; Chen, Chung) Estimation of time series parameters in the presence of outliers. (Not in MR)
Chen, Chung *see* **Chang, Ih; et al.,** (Not in MR)
Chen, Zhao Guo The asymptotic properties of the multichannel autoregressive spectral estimates. **89j:62119**
Chiu, Shean-Tsong Weighted least squares estimators on the frequency domain for the parameters of a time series. **89i:62145**
Dahlhaus, Rainer Small sample effects in time series analysis: a new asymptotic theory and a new estimate. **89g:62149**
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Ding, Hong (*with* Yang, Shu Zi; Dong, Shuang Wen) Some problems in ARMA spectrum estimation. (Chinese. English summary) (Not in MR)
Dong, Shuang Wen *see* **Ding, Hong; et al.,** (Not in MR)
Dufour, Jean-Marie (*with* Hallin, Marc) Tests non paramétriques optimaux pour le modèle autorégressif d'ordre un. (English summary) [Optimal nonparametric tests for a first-order autoregressive model] **89b:62187**
Dutter, Rudolf *see* **Stockinger, Norbert, 89c:62161**
Eilers, Paul Autoregressive models with latent variables. **89k:62114**
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Epps, T. W. Testing that a stationary time series is Gaussian. **89c:62152**
Feuerverger, Andrey A bound for estimation in nonlinear time series models by independence testing methods. **89e:62117**
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Franke, Jürgen Correction to: "A Levinson-Durbin recursion for autoregressive-moving average processes" [Biometrika 72 (1985), no. 3, 573–581; MR 87k:62150]. **89d:62089**
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Gabr, M. M. On the third-order moment structure and bispectral analysis of some bilinear time series. **89e:62118**
— *see also* **Subba Rao, T.,** (Not in MR)
Gardner, William A. Correlation estimation and time-series modeling for nonstationary processes. (French and German summaries) **89f:62075**
Gasim, Ali Abul First-order autoregressive models: a method for obtaining eigenvalues for weighting matrices. **89d:62090**
Ghysels, Eric A study toward a dynamic theory of seasonality for economic time series. (Not in MR)
Gingras, Donald F. (*with* Masry, Elias) Autoregressive spectral estimation in additive noise. **89f:62076**
Gómez, María *see* **Anděl, Jiří, 89e:62115**
de Gooijer, Jan G. (*with* Abraham, B.; Gould, Ann; Robinson, Lecily) Methods for determining the order of an autoregressive-moving average process: a survey. (French summary) **89h:62150**
— (*with* Saikkonen, Pentti) A specification strategy for order determination in ARMA models. (Not in MR)
— *see also* **Anderson, Oliver D., 89e:62116**
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Gouriéroux, Christian Une approche géométrique des processus ARMA. (English summary) [A geometrical approach to ARMA processes] **89j:62120**
Green, Michael All-pass matrices, the positive real lemma, and unit canonical correlations between future and past. **89c:62153**
Griffith, Daniel A. Model identification for estimating missing values in space-time data series: monthly inflation in the U.S. urban system, 1977–1985. (*see* **89e:90072**)
Hall, A. D. *see* **McAleer, Michael; et al., 89f:62080**
Hallin, Marc Performances asymptotiques des modèles MA dans la prévision des processus q-dépendants non stationnaires. [Asymptotic behavior of MA models in the forecasting of nonstationary q-dependent processes] **89h:62151**
— (*with* Puri, Madan L.) Optimal rank-based procedures for time series analysis: testing an ARMA model against other ARMA models. **89b:62188**
— (*with* Lefèvre, C.; Puri, Madan L.) On time-reversibility and the uniqueness of moving average representations for non-Gaussian stationary time series. **89f:62077**
— (*with* Puri, Madan L.) Locally asymptotically rank-based procedures for testing autoregressive moving average dependence. **89e:62119**
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Hannan, E. J. (*with* Thomson, P. J.) Time delay estimation. **89b:62189**
Hansen, Lars Peter (*with* Heaton, John C.; Ogaki, Masao) Efficiency bounds implied by multiperiod conditional moment restrictions. **89m:62102**
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Hillmer, Steven C. (*with* Trabelsi, Abdelwahed) Benchmarking of economic time series. **89a:62192**
— *see also* **Stam, Antonie, 89e:62122**
Hinich, Melvin J. (*with* Wolinsky, Murray A.) A test for aliasing using bispectral analysis. **89j:62121**
Holtz-Eakin, Douglas Testing for individual effects in autoregressive models. (Not in MR)
Huang, Da Wei Recursive method for ARMA model estimation. I. **89i:62146**
— Convergence rate of sample autocorrelations and autocovariances for stationary time series. **89m:62103**
Hui, Y. V. *see* **Li, Wai Kee,** (Not in MR)
Hurvich, Clifford M. A mean squared error criterion for time series data windows. **89j:62122**
Janžura, M. Asymptotic theory of parameter estimation for Gauss-Markov random fields. **89k:62115**
Jarušková, Daniela Siegel's test for periodic components in multiple time series and its application in engineering practice. **89j:62123**
Jeon, T. J. (*with* Park, S. J.) Multiple time series model identification using concatenated sample cross-correlations. **89j:62124**
Joala, V. An estimation method for coefficients of polynomial trend in time series. (Russian summary) (Not in MR)
de Jong, Piet The likelihood for a state space model. **89e:62120**
— (*with* Mackinnon, Murray J.) Covariances for smoothed estimates in state space models. **89i:62147**
Jurgutis, Marius A remark on an inequality for the probability of deviation of the maximum likelihood estimate of a change point of the parameters of an autoregressive sequence. (Russian. English and Lithuanian summaries) **89b:62190**
Kageyama, Sanpei On the determinant and the inverse for the covariance matrix of a moving average process. **89g:62150**
Kamaletdinov, B. Zh. Ternary sequences with ideal periodic autocorrelation properties. **89h:62152**
Kanto, Antti J. Covariances between estimated autocorrelations of an ARMA process. **89j:62125**
Karlsen, Hans (*with* Tjøstheim, Dag) Consistent estimates for the NEAR(2) and NLAR(2) times series models. **89m:62104**
Kashyap, R. L. (*with* Eom, Kie-Bum) Estimation in long-memory time series model. **89d:62091**
Kishida, Kuniharu *see* **Yamada, Sumasu; et al., 89m:62107**
Koehler, Anne B. (*with* Murphree, E. S.) A comparison of the Akaike and Schwarz criteria for selecting model order. **89h:62153**

Koneva, E. S. Choice of models for real time series. **89j:62126**
Kowalski, Aleksander (*with* Szynal, D.) On linear predictors for nonstationary ARMA models. **89k:62116**
Kulkarni, P. M. Large sample estimation and prediction for explosive growth curve models. **89g:62151**
Kurozawa, Toshiro *see* **Mori, Kenichi**, (Not in MR)
Kwan, Andy C. C. (*with* Sim, Ah-Boon) Generalised portmanteau statistics and tests of randomness: a note on their applications to residuals from a fitted ARMA model. **89e:62121**
Kwoun, Gea Hwa An estimation procedure in a nonstationary autoregressive model. **89g:62152**
Lane, J. A. (*with* Ceuppens, P. R.; Peel, D. A.) Critical bounds for MA(2) and MA(3) processes. **89i:62148**
Latour, Alain (*with* Roy, Roch) Some exact results on the sample autocovariances of a seasonal ARIMA model. (French summary) **89a:62193**
Lawrance, A. J. (*with* Lewis, P. A. W.) Higher-order residual analysis for nonlinear time series with autoregressive correlation structures. (French summary) **89i:62149**
Lefèvre, C. *see* **Hallin, Marc; et al., 89f:62077**
Lewis, P. A. W. *see* **Lawrance, A. J., 89i:62149**
Lewis, Richard A. (*with* Reinsel, Gregory C.) Prediction error of multivariate time series with mis-specified models. **89c:62154**
Li, Wai Kee (*with* Hui, Y. V.) An algorithm for the exact likelihood of periodic autoregressive moving average models. (Not in MR)
— (*with* McLeod, A. I.) ARMA modelling with non-Gaussian innovations. **89f:62078**
Lin, Y. C. *see* **Yu, G. H., (89g:76003c)**
Linka, Aleš On transformations of multivariate ARMA processes. **89f:62079**
Lipeika, Antanas (*with* Lipeikienė, Joana) Use of a dynamic programming method for determining some change points of the properties of autoregressive random sequences. (Russian. English and Lithuanian summaries) (Not in MR)
Lipeikienė, Joana *see* **Lipeika, Antanas**, (Not in MR)
Liu, Jian^3 (*with* Brockwell, Peter J.) On the general bilinear time series model. **89j:62127**
López Martín, Luis Javier ★ Identificación de modelos en series temporales. (Spanish) [Time series model identification] **89b:62191**
Lu, Yuan Zhang *see* **Xiong, Yu Fei, 89f:62084**
Lütkepohl, Helmut ★ Prognose aggregierter Zeitreihen. (German) [Prognosis of aggregate time series] **89d:62092**
Luukkonen, Ritva (*with* Saikkonen, Pentti; Teräsvirta, Timo) Testing linearity against smooth transition autoregressive models. **89i:62150**
— (*with* Saikkonen, Pentti; Teräsvirta, Timo) Testing linearity in univariate time series models. (Not in MR)
Mackinnon, Murray J. *see* **de Jong, Piet, 89i:62147**
Maekawa, Koichi Finite sample properties of several predictors from an autoregressive model. **89i:62151**
Mališić, Jovan D. On exponential autoregressive time series models. **89c:62155**
Masry, Elias *see* **Gingras, Donald F., 89f:62076**
McAleer, Michael (*with* McKenzie, C. R.; Hall, A. D.) Testing separate time series models. **89f:62080**
McKenzie, C. R. *see* **McAleer, Michael; et al., 89f:62080**
McLeod, A. I. *see* **Li, Wai Kee, 89f:62078**
Mélard, G. (*with* Roy, Roch) Modèles de séries chronologiques avec seuils. (English summary) [Time series models with thresholds] **89k:62117**
Mentz, Raúl Pedro A note on the use of the sample autocorrelogram. **89i:62152**
Mittnik, Stefan Derivation of the theoretical autocovariance and autocorrelation function of autoregressive moving average processes. **89i:62153**
Mokkadem, Abdelkader Sur un modèle autorégressif non linéaire: ergodicité et ergodicité géométrique. (English summary) [On a nonlinear autoregressive model: ergodicity and geometry ergodicity] **89b:62192**
Morettin, Pedro A. The Levinson algorithm and its applications in time series analysis. (French summary) (Not in MR)
Mori, Kenichi (*with* Kurozawa, Toshiro) A method of the variable transformation for the time series analysis. (Not in MR)
Mosheiov, Gur *see* **Raveh, Adi**, (Not in MR)
Moustakides, G. *see* **Basseville, M.; et al., 89c:62149**
Murphree, E. S. *see* **Koehler, Anne B., 89h:62153**
Naginevičius, R. Generation of multidimensional time series with a given degree of multicollinearity. (Russian. Lithuanian summary) (Not in MR)
Nakutis, Evaldas *see* **Baltrūnas, Jonas; et al., 89c:62148**
Nankervis, J. C. (*with* Savin, N. E.) The Student's t approximation in a stationary first order autoregressive model. **89a:62194**
Newbold, P. Some recent developments in time series analysis. II. (French summary) **89h:62154**
— Some recent developments in time series analysis. III. (French summary) (Not in MR)
Ogaki, Masao *see* **Hansen, Lars Peter; et al., 89m:62102**
Ohanian, Lee E. The spurious effects of unit roots on vector autoregressions. A Monte Carlo study. (Not in MR)
Ōsawa, Hideo Reversibility of first-order autoregressive processes. **89d:62093**
Otter, Pieter W. Structural, dynamic modelling in unobservable spaces of covariance-stationary stochastic processes. **89f:62081**
Ouyang, Pu Ren (*with* Yang, Ke Chong; Yang, Shu Zi) Comments on: "An investigation of the modeling of continuous stationary time series" [J. Huazhong Univ. Sci. Tech. 13 (1985), no. 5, 1–10] by S. Z. Yang, K. C. Yang, X. Zhao, Z. F. Wang and Y. L. Xiong. (Chinese. English summary) (Not in MR)
Pantula, Sastry G. On asymptotic properties of the least squares estimators for autoregressive time series with a unit root. **89a:62195**
Park, S. J. *see* **Jeon, T. J., 89j:62124**
Peel, D. A. *see* **Lane, J. A.; et al., 89i:62148**
Peiris, M. Shelton On the prediction of multivariate ARMA processes with a time dependent covariance structure. **89f:62082**
— On the study of some functions of multivariate ARMA processes. **89d:62094**
Pestana, Dinis D. Time series fitting of almost stable stochastic processes. **89b:62193**
Petruccelli, Joseph D. (*with* Davies, Neville) A portmanteau test for self-exciting threshold autoregressive-type nonlinearity in time series. **89b:62194**
Phan Dang Cau On moving average composition and predictive deconvolution of long-run stationary time series. (Hungarian summary) **89j:62128**
Phillips, P. C. B. Towards a unified asymptotic theory for autoregression. **89a:62196**
— Time series regression with a unit root. **89c:62156**
— Weak convergence to the matrix stochastic integral $\int_0^1 B\,dB'$. **89d:62095**
Pourahmadi, Mohsen Stationarity of the solution of $X_t = A_tX_{t-1} + \varepsilon_t$ and analysis of non-Gaussian dependent random variables. **89m:62105**
Praagman, C. Inputs, outputs and states in the representation of time series. **89h:62155**
Pradlwarter, H. J. Ein Maß für die Instationarität eines stochastischen Prozesses. [A measure for the instationarity of a stochastic process] **89i:62154**
Priestley, M. B. Current developments in time series modelling. **89a:62197**
Pukkila, Tarmo M. An improved estimation method for univariate autoregressive models. (Not in MR)
Puri, Madan L. *see* **Hallin, Marc, 89b:62188; 89e:62119** *and* **89f:62077**
Qaqish, Bahjat *see* **Zeger, Scott L.**, (Not in MR)
Qian, Wei Gaussian estimation of first order time series models with Bernoulli observations. **89j:62129**
Raveh, Adi (*with* Mosheiov, Gur) Smoothing time-series data by nonmetric polytone curves. (Not in MR)
Ray, D. Asymptotic mean square prediction error for a multivariate autoregressive model with random coefficients. **89c:62157**
Reinsel, Gregory C. *see* **Lewis, Richard A., 89c:62154; Velu, Raja P.; et al., 89c:62165** *and* **Ahn, Sung K.**, (Not in MR)
Richardson, Sylvia Testing the association between two spatial processes. A review of different approaches. (French summary) **89d:62096**
Robertson, Christopher A. *see* **Yeh, Hsiao Chên; et al., 89i:62156**
Robinson, Lecily *see* **de Gooijer, Jan G.; et al., 89h:62150**
Rosenblatt, Murray Erratum: "Prediction for some non-Gaussian autoregressive schemes" [Adv. in Appl. Math. 7 (1986), no. 2, 182–198; MR 88a:62260]. **89m:62106**
Rougée, A. *see* **Basseville, M.; et al., 89c:62149**
Roy, Roch *see* **Latour, Alain, 89a:62193** *and* **Mélard, G., 89k:62117**
Ruskeepää, Heikki Exact predictors for a generalized AR(1) process with an AR(1) parameter. **89d:62097**
Saikkonen, Pentti *see* **Luukkonen, Ritva; et al., 89i:62150; de Gooijer, Jan G.**, (Not in MR) *and* **Luukkonen, Ritva; et al.**, (Not in MR)
Samarov, Alexander M. (*with* Taqqu, Murad S.) On the efficiency of the sample mean in long-memory noise. **89i:62155**
Savin, N. E. *see* **Nankervis, J. C., 89a:62194**
Schlittgen, Rainer (*with* Streitberg, B.) ★ Zeitreihenanalyse. (German) [Time series analysis] **89g:62153**
Schmeiser, Bruce *see* **Song, Wheyming Tina, 89j:62130**
Sen Roy, S. *see* **Basu, A. K., 89b:62185**
Shaman, Paul (*with* Stine, Robert A.) The bias of autoregressive coefficient estimators. (Not in MR)
Sharma, Subhash C. The effects of correlation among observations on the consistency property of sample mean. (French and Italian summaries) **89c:62158**
Shively, Thomas S. An exact test for a stochastic coefficient in a time series regression model. **89a:62198**
Sim, Ah-Boon *see* **Kwan, Andy C. C., 89e:62121**
Šležas, Vincas *see* **Baltrūnas, Jonas; et al., 89c:62148**
Söderström, Torsten *see* **Stoica, Petre; et al., 89c:62162**
Song, Wheyming Tina (*with* Schmeiser, Bruce) On the dispersion matrix of variance estimators of the sample mean in the analysis of simulation output. **89j:62130**
Spanos, Aris Error autocorrelation revisited: the AR(1) case. (Not in MR)
Sriram, T. N. Sequential estimation of the autoregressive parameter in a first order autoregressive process. **89d:62098**
Stam, Antonie (*with* Hillmer, Steven C.) Marginals of multivariate first-order autoregressive time series models. **89e:62122**
Stein, Michael L. Minimum norm quadratic estimation of spatial variograms. **89c:62159**
Stine, Robert A. Estimating properties of autoregressive forecasts. **89a:62199**
— *see also* **Shaman, Paul**, (Not in MR)
Stock, James H. Estimating continuous-time processes subject to time deformation. **89c:62160**
Stockinger, Norbert (*with* Dutter, Rudolf) Robust time series analysis: a survey. **89c:62161**
Stoica, Petre (*with* Friedlander, B.; Söderström, Torsten) Asymptotic bias of the high-order autoregressive estimates of sinusoidal frequencies. **89c:62162**
Streitberg, B. *see* **Schlittgen, Rainer, 89g:62153**
Subba Rao, T. (*with* Gabr, M. M.) The estimation of the bispectral density function and the detection of periodicities in a signal. (Not in MR)
Szynal, D. *see* **Kowalski, Aleksander, 89k:62116**
Tanaka, Minoru^2 Estimation of the autocorrelation coefficients in a stationary lognormal process. **89f:62083**
Taniguchi, Masanobu Minimum contrast estimation for spectral densities of stationary processes. **89c:62163**
Taqqu, Murad S. *see* **Samarov, Alexander M., 89i:62155**
Teräsvirta, Timo *see* **Luukkonen, Ritva; et al., 89i:62150** *and* (Not in MR)
Thavaneswaran, A. (*with* Abraham, B.) Estimation for nonlinear time series models using estimating equations. **89c:62164**
Thomson, P. J. *see* **Hannan, E. J., 89b:62189**
Tiao, George C. *see* **Chang, Ih; et al.**, (Not in MR)
Tjøstheim, Dag Spatial series and time series. Similarities and differences. (French summary) **89d:62099**
— *see also* **Karlsen, Hans, 89m:62104** *and* **Tyssedal, John S.**, (Not in MR)
Trabelsi, Abdelwahed *see* **Hillmer, Steven C., 89a:62192**
Tyssedal, John S. (*with* Tjøstheim, Dag) An autoregressive model with suddenly changing parameters and an application to stock market prices. (Not in MR)
Vecchia, A. V. Estimation and model identification for continuous spatial processes. **89k:62118**

Velu, Raja P. (*with* Wichern, Dean W.; Reinsel, Gregory C.) A note on nonstationarity and canonical analysis of multiple time series models. **89c:62165**

Vijayan, Kaipillil *see* **Abraham, B.**, (Not in MR)

Vitale, Cosimo Signal and noise extraction in multivariate ARMA models. (French and Italian summaries) **89a:62200**

Vu, Ky Minh Linear time series variance. **89b:62195**

Wallis, Kenneth F. *see* **Burridge, Peter**, **89h:62148**

Wang, Chamont W. H. A minimum distance estimator for first-order autoregressive processes. **89a:62201**

(Wang, Zhi Fan) *see* **Ouyang, Pu Ren; et al.**, (Not in MR)

Wei, C. Z. Adaptive prediction by least squares predictors in stochastic regression models with applications to time series. **89e:62123**

— *see also* **Chan, N. H.**, **89b:62186** *and* **89c:62151**

Weiss, Andrew A. On the stability of a heteroscedastic process. **89a:62202**

Wichern, Dean W. *see* **Velu, Raja P.; et al.**, **89c:62165**

Wilson, P. David Maximum likelihood estimation using differences in an autoregressive-1 process. **89c:62166**

Wolinsky, Murray A. *see* **Hinich, Melvin J.**, **89j:62121**

(Xiong, You Lun) *see* **Ouyang, Pu Ren; et al.**, (Not in MR)

Xiong, Yu Fei (*with* Lu, Yuan Zhang) Structure identification and parameter estimation of multivariate ARMAX. (Chinese. English summary) **89f:62084**

Yajima, Yoshihiro On estimation of a regression model with long-memory stationary errors. **89k:62119**

Yamada, Sumasu (*with* Kishida, Kuniharu; Bekki, Keisuke) Notes on poles and convergence rate of autoregressive model. **89m:62107**

Yang, Ke Chong *see* **Ouyang, Pu Ren; et al.**, (Not in MR)

Yang, Shu Zi *see* **Ouyang, Pu Ren; et al.**, (Not in MR) *and* **Ding, Hong; et al.**, (Not in MR)

Yeh, Hsiao Chên (*with* Arnold, Barry C.; Robertson, Christopher A.) Pareto processes. **89i:62156**

Yu, G. H. (*with* Lin, Y. C.) A method of selecting subset autoregressive time series models. (*see* **89g:76003c**)

Zayats, V. V. Grenander-Rosenblatt-type statistics with a time window. (Russian) **89f:62085**

Zeger, Scott L. (*with* Qaqish, Bahjat) Markov regression models for time series: a quasi-likelihood approach. (French summary) (Not in MR)

Zehnwirth, Ben A generalization of the Kalman filter for models with state-dependent observation variance. **89g:62154**

Zhang, Nian Fan (*with* Foutz, Robert V.) A higher-order random-parameter process for modeling and forecasting time series. **89j:62131**

(Zhao, Xing) *see* **Ouyang, Pu Ren; et al.**, (Not in MR)

Zornitta, Gino *see* **Carlucci, Francesco**, **89h:62149**

Zvára, Karel *see* **Anděl, Jiří**, **89i:62143**

Items with secondary classifications in 62M10

Akahira, Masafumi (*with* Takeuchi, Kei) On the bound of the asymptotic distribution of estimators when the maximum order of consistency depends on the parameter. **89a:62073**

Albano, A. M. (*with* Muench, J.; Schwartz, C.; Mees, A. I.; Rapp, P. E.) Singular-value decomposition and the Grassberger-Procaccia algorithm. **89h:58108**

An, Hong Zhi (*with* Gao, Hong Ye) Two limit theorems on ARIMA models. **89g:60064**

Aoki, Masanao *see* **Havenner, Arthur**, (Not in MR)

Ashby, F. Gregory Counting and timing models in psychophysics and the conjoint Weber's law. **89c:92089**

Ballerini, Rocco (*with* Resnick, Sidney) Records in the presence of a linear trend. **89a:60242**

— (*with* Resnick, Sidney) Embedding sequences of successive maxima in extremal processes, with applications. **89a:60241**

Baltrūnas, Jonas (*with* Rudzkienė, V.) Nonparametric estimation of nonlinear autoregression processes. I. Statistical properties of estimates. (Russian. Lithuanian summary) **89a:62087**

Bánkövi, Gy. (*with* Veliczky, J.; Ziermann, M.) ★ Dynamic factor analysis. **89e:62124**

Basu, A. K. (*with* Sen Roy, S.) On some asymptotic results for multivariate autoregressive models with estimated parameters. **89b:62200**

Brunsdon, T. M. (*with* Skinner, C. J.) The analysis of dependencies between time series in psychological experiments. **89g:92066**

Campillo, Fabien Testing for a change-point in linear systems with incomplete observation. **89g:62145**

Cipra, T. Autoregressive processes in optimization. **89h:90163**

Cobelli, Claudio (*with* Thomaseth, Karl) On optimality of the impulse input for linear system identification. **89g:93101**

Dègerine, Serge Fonction d'autocorrélation partielle canonique d'un processus vectoriel stationnaire. (English summary) [Canonical partial autocorrelation function for a multivariate stationary time series] **89a:60103**

Dickinson, Bradley W. *see* **Li, Shiping**, **89d:94004**

Duong, Quang Phuc Model selection and ranking: an AHP approach to forecasts combination. (*see* **89d:00007**)

Ehlers, Cindy L. *see* **Havstad, James W.**, **89k:58180**

Elishakoff, I. Measurement of characteristics of stationary random processes. **89g:60132**

Ermol'eva, T. Yu. (*with* Knopov̌, P. S.) Asymptotic properties of the estimator of the mean of a stationary process in the presence of constraints. (Russian. English summary) **89k:93194**

Essebbar, B. (*with* Le Breton, Alain) Sur un modèle de série chronologique vectorielle à composantes binaires en vue d'applications en climatologie. (English summary) [A vector time series model with binary components with a view to applications in climatology] **89m:86006**

Frenkel', A. A. Modeling of dynamics on the basis of ridge regression with autocorrelated residuals. (Russian) (Not in MR)

Friedlander, B. *see* **Stoica, Petre; et al.**, **89b:93102**

Fujisaka, Hirokazu (*with* Inoue, Masayoshi) Statistical-thermodynamics formalism of self-similarity. **89g:60244**

Gao, Hong Ye *see* **An, Hong Zhi**, **89g:60064**

González Manteiga, W. (*with* Vilar Fernández, J. M.) A class of nonparametrically constructed parameter estimators for a stationary autoregressive model. **89k:62054**

Havenner, Arthur (*with* Aoki, Masanao) An instrumental variables interpretation of linear systems theory estimation. (Not in MR)

Havstad, James W. (*with* Ehlers, Cindy L.) Attractor dimension of nonstationary dynamical systems from small data sets. **89k:58180**

Hosoya, Yuzo The second-order Fisher information. **89i:62028**

Inoue, Masayoshi *see* **Fujisaka, Hirokazu**, **89g:60244**

Jeganathan, P. On the strong approximation of the distributions of estimators in linear stochastic models. I, II. Stationary and explosive AR models. **89j:62043**

Kearney, Colm *see* **MacDonald, Ronald**, **89a:62228**

Knopov, P. S. *see* **Ermol'eva, T. Yu.**, **89k:93194**

Kobayashi, Takayuki Branching processes in the presence of random immigration and representations for time series. **89j:60119**

Kogan, I. A. Optimal segmentation of structural experimental curves on the basis of the dynamic programming method. **89i:93128**

Kohda, Tohru (*with* Murao, Kenji) Time series analyses of $1/f$ noise with its unbounded invariant density. **89i:58090**

— *see also* **Murao, Kenji**, **89g:58135**

Konev, V. V. (*with* Pergamenshchikov, S. M.) Guaranteed estimation of the parameters of unstable dynamical systems. **89k:93195**

Kostenko, Yu. V. *see* **Stepashko, V. S.**, **89f:90037**

Le Breton, Alain (*with* Musiela, M.) Strong consistency of least squares estimates in linear regression models driven by semimartingales. **89a:62163**

— Représentation ARMA d'un processus gaussien à temps continu stationnaire de densité spectrale rationnelle. (English summary) [ARMA representation of a continuous-time stationary Gaussian process with rational spectral density] **89j:60057**

— *see also* **Essebbar, B.**, **89m:86006**

Li, Shiping (*with* Dickinson, Bradley W.) Application of the lattice filter to robust estimation of AR and ARMA models. **89d:94004**

Liu, Xiao Song (*with* Yang, Zhi Chao) A linear estimation method for ARMA parameters. (Chinese. English summary) **89k:62083**

MacDonald, Ronald (*with* Kearney, Colm) On the specification of Granger-causality tests using the cointegration methodology. **89a:62228**

McKenzie, Ed The distributional structure of finite moving-average processes. **89g:60166**

Mees, A. I. *see* **Albano, A. M.; et al.**, **89h:58108**

Michaletzky, György (*with* Tusnády, Gábor) On the state space representation of multidimensional time series. (Hungarian. English summary) **89m:93012**

Milanese, M. (*with* Tempo, R.; Vicino, A.) Optimal error predictors for economic models. **89d:90068**

Muench, J. *see* **Albano, A. M.; et al.**, **89h:58108**

Murao, Kenji (*with* Kohda, Tohru) A new approach to time series analyses of chaotic orbits in one-dimensional maps. **89g:58135**

— *see also* **Kohda, Tohru**, **89i:58090**

Musiela, M. *see* **Le Breton, Alain**, **89a:62163**

Peiris, M. Shelton *see* **Singh, Naunihal**, **89h:62131**

Pergamenshchikov, S. M. *see* **Konev, V. V.**, **89k:93195**

Rapp, P. E. *see* **Albano, A. M.; et al.**, **89h:58108**

Resnick, Sidney *see* **Ballerini, Rocco**, **89a:60241** *and* **89a:60242**

Rolin, Jean-Marie Asymptotic behaviour of posterior expectations in dynamical models. **89j:62046**

Romeu, Jorge L. Another look at the comparisons of the nonoverlapping batch means and area simulation output analysis procedures. **89j:90163**

Rudzkienė, V. *see* **Baltrūnas, Jonas**, **89a:62087**

Sartore, Domenico Some remarks on the causality definitions in the nonlinear theory of stochastic processes. (French and Italian summaries) **89c:62195**

Schwartz, C. *see* **Albano, A. M.; et al.**, **89h:58108**

Sen Roy, S. *see* **Basu, A. K.**, **89b:62200**

Singh, Naunihal (*with* Peiris, M. Shelton) Optimal experimental designs for linear time series models with stochastic coefficients. **89h:62131**

Skinner, C. J. *see* **Brunsdon, T. M.**, **89g:92066**

Söderström, Torsten *see* **Stoica, Petre; et al.**, **89b:93102**

Srivastava, M. S. Bootstrapping Durbin-Watson statistic. **89b:62088**

Stepashko, V. S. (*with* Kostenko, Yu. V.) A GMDH algorithm for two-level modeling of multidimensional cyclic processes. **89f:90037**

Stoica, Petre (*with* Friedlander, B.; Söderström, Torsten) Instrumental variable methods for ARMA models. **89b:93102**

Takeda, Hiroshi *see* **Zhang, Xian Da**, **89j:93111**

Takeuchi, Kei *see* **Akahira, Masafumi**, **89a:62073**

Tempo, R. *see* **Milanese, M.; et al.**, **89d:90068**

Thomaseth, Karl *see* **Cobelli, Claudio**, **89g:93101**

Tomášek, Ladislav Asymptotic simultaneous confidence bands for autoregressive spectral density. **89b:62199**

Tusnády, Gábor *see* **Michaletzky, György**, **89m:93012**

Veliczky, J. *see* **Bánkövi, Gy.; et al.**, **89e:62124**

Veres, S. Asymptotic distribution of maximum likelihood estimators for nonstationary autoregressive processes. (Russian summary) **89d:62088**

Vicino, A. *see* **Milanese, M.; et al.**, **89d:90068**

Vilar Fernández, J. M. *see* **González Manteiga, W.**, **89k:62054**

Wedig, W. Parameter identification of road spectra and nonlinear oscillators. **89i:93117**

Willems, J. C. From time series to linear system. I. Finite-dimensional linear time invariant systems. **89b:93112**

— From time series to linear system. II. Exact modelling. **89b:93113**

— From time series to linear system. III. Approximate modelling. **89b:93114**

Yang, Zhi Chao *see* **Liu, Xiao Song**, **89k:62083**

Zhang, Xian Da (*with* Takeda, Hiroshi) An approach to time series analysis and ARMA spectral estimation. **89j:93111**

Ziermann, M. *see* **Bánkövi, Gy.; et al.**, **89e:62124**

62M15 Spectral analysis of time series

Böhme, Johann F. Estimation of spectral parameters of correlated signals in wavefields. (*see* 89b:94004)

Chen, Zhao Guo Consistent estimates for hidden frequencies in a linear process. **89d:62100**

Künsch, H. Intrinsic autoregressions and related models on the two-dimensional lattice. **89a:62203**

Lii, Keh Shin (*with* Rosenblatt, Murray) Estimation and deconvolution when the transfer function has zeros. **89b:62196**

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Ginovyan, M. S. Asymptotically efficient nonparametric estimation of functionals from a spectral density with zeros. **89j:62053**

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62M20 Prediction [see also 60G25]; filtering [see also 60G35, 93E10, 93E11]

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Ziermann, M. *see* **Bánkövi, Gy.; et al., 89e:62124**

Items with secondary classifications in 62M20

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Carraro, Carlo Square root Kalman algorithms in econometrics. **89j:62143**

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62M30 Spatial models (use only for secondary classification)

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Items with secondary classifications in 62M30

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Moore, Marc Spatial linear processes. **89g:60174**

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62M99 None of the above, but in this section

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62Nxx Engineering statistics

62N05 Reliability and life testing [see also 90B25]

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Abu-Salih, M. S. (*with* Qader, M. A.; Ali, Mohamed Akkas) Approximate fiducial bounds of reliability of a series system. **89d:62101**

Achcar, Jorge A. (*with* Bolfarine, Heleno) Predictive densities in survival analysis with a generalized gamma regression model. (Not in MR)

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Bolfarine, Heleno *see* **Achcar, Jorge A.**, (Not in MR)

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Csörgő, Miklós (*with* Csörgő, Sándor) Estimation of percentile residual life. **89d:62104**

Csörgő, Sándor *see* **Csörgő, Miklós, 89d:62104**

Dąbrowska, Dorota M. (*with* Doksum, Kjell A.) Estimates and confidence intervals for median and mean life in the proportional hazard model. **89a:62208**

Dharmadhikari, A. D. (*with* Gupta, Y. P.) Performance measure estimation for repairable systems. **89b:62204**

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Hougaard, Philip Modelling multivariate survival. **89c:62174**

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Johnson, Richard A. *see* **Guttman, I.; et al., 89e:62129**

Joshi, S. N. *see* **Basu, A. P.; et al., 89h:62158**

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McNichols, Diane T. (*with* Padgett, W. J.) Inference for step-stress accelerated life tests under arbitrary right-censorship. **89k:62124**

Mukherjee, S. P. (*with* Chatterjee, Aditya) A new MIFRA class of life distributions. **89m:62108**

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Pavlov, I. V. Sequential control and estimation of system reliability indices which take information on elements into account. **89c:62177**

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(Rao, Calyampuli Radhakrishna) *see* **Sinha, Snehesh Kumar, 89c:62179**

Reiser, B. *see* **Guttman, I.; et al., 89e:62129**

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Sellke, Thomas Weak convergence of the Aalen estimator for a censored renewal process. **89g:62156**
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Shekhovtsova, M. G. *see* **Lumel′skiĭ, Ya. P., 89h:62159**
Singh, Harshinder On two new aging properties. **89a:62211**
Singh, Naunihal *see* **Bhattacharya, Samir K.**, (Not in MR)
Singpurwalla, Nozer D. Foundational issues in reliability and risk analysis. **89e:62133**
Sinha, Snehesh Kumar ★ Reliability and life testing. **89c:62179**
— (*with* Guttman, I.) Bayesian analysis of life-testing problems involving the Weibull distribution. **89b:62207**
Tang, Kwei Design of a two-stage screening procedure using correlated variables: a loss function approach. (Not in MR)
Tarmast, Ghasem *see* **Basu, A. P., 89f:62086**
Tsai, Wei-Yann Estimation of the survival function with increasing failure rate based on left truncated and right censored data. **89c:62180**
Ushakov, I. A. *see* **Genis, Ya. G., 89i:62165**
Volf, P. Estimation of the mean from randomly censored data. (Russian summary) **89a:62212**
Wang, Jane-Ling Estimators of a distribution function with increasing failure rate average. **89c:62181**
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Items with secondary classifications in 62N05

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Boos, Dennis D. *see* **Berger, Roger L.; et al., 89g:62160**
Boukai, Benzion Bayes sequential procedure for estimation and for determination of burn-in time in a hazard rate model with an unknown change-point parameter. **89f:62066**
Brookmeyer, Ron (*with* Gail, M. H.) Biases in prevalent cohorts. (French summary) **89a:62217**
Bueno, Vanderlei Costa A note on the component lifetime estimation of a multistate monotone system through the system lifetime. **89j:90131**
Byar, D. *see* **Slud, E., 89b:62214**
Cheng, Philip E. Hazard rate estimation under the simple proportional hazards model. **89h:62059**
Clarotti, C. A. (*with* Solonnikov, V. A.; Spizzichino, F.) Reliability equations for nonexponential systems with repairable components. (Italian summary) **89h:60149**
Daley, D. J. Tight bounds on the exponential approximation of some aging distributions. **89d:60021**
Diehl, Sabine (*with* Stute, Winfried) Kernel density and hazard function estimation in the presence of censoring. **89f:62039**
Froda, Sorana A signed rank test for censored paired lifetimes. **89a:62108**
Gail, M. H. *see* **Brookmeyer, Ron, 89a:62217**
Gardiner, Joseph C. (*with* Susarla, V.; Van Ryzin, John) On bounded length confidence intervals for quantiles of the survival distribution. **89b:62173**
Gaskarov, D. V. (*with* Goloskokov, K. P.; Shkabardnya, A. M.) Application of mathematical programming in discriminant analysis for the solution of a forecasting problem. **89g:90080**
Gijbels, I. (*with* Veraverbeke, N.) Weak asymptotic representations for quantiles of the product-limit estimator. **89a:62095**
Goloskokov, K. P. *see* **Gaskarov, D. V.; et al., 89g:90080**
Goulden, I. P. Generating functions and reliabilities for consecutive-k-out-of-n systems. **89d:90104**
Green, Jack *see* **Ragab, Aisha, 89a:62069**
Guess, Frank *see* **Berger, Roger L.; et al., 89g:62160**
Gupta, Ramesh C. (*with* Kirmani, S. N. U. A.) On order relations between reliability measures. **89c:60101**
Haara, P. *see* **Arjas, E., 89m:60115**
Habibullah, Mohamed *see* **Basu, A. P., 89b:62051**
Hougaard, Philip A class of multivariate failure time distributions. **89c:62035a**
— Correction to: “A class of multivariate failure time distributions”. **89c:62035b**
Hwang, F. K. *see* **Yao, Y.-C., 89e:90208**
Kim, Jee Soo (*with* Proschan, Frank; Sethuraman, Jayaram) Stochastic comparisons of order statistics, with applications in reliability. **89i:62082**
Kirmani, S. N. U. A. *see* **Gupta, Ramesh C.; 89c:60101**
Krishnamoorthy, K. (*with* Rohatgi, Vijay K.) Minimum variance unbiased estimation in some nonregular families. **89j:62040**
Lam, Yeh A note on the optimal replacement problem. **89d:90105**
Lee, Yann-Hang (*with* Shin, Kang G.) Optimal design and use of retry in fault-tolerant computer systems. **89a:68015**
Lin, Zhong Min Development and applications of the theory of structural reliability. (Chinese) (Not in MR)
Lindqvist, Bo Henry Monotone and associated Markov chains, with applications to reliability theory. **89b:60172**
Lio, Y. L. (*with* Padgett, W. J.) A modified kernel quantile estimator under censoring. (French summary) **89m:62040**
Madsen, Henrik O. (*with* Bjerager, Peter) Reliability of ideal plastic systems based on lower-bound theorem. **89j:73043**
Matthews, David E. Likelihood-based confidence intervals for functions of many parameters. **89c:62067**
Mau, Jochen A generalization of a nonparametric test for stochastically ordered distributions to censored survival data. **89i:62074**
Menaldi, José-Luis (*with* Robin, Maurice) On the control of queueing systems with failures and repairs. **89h:90105**
Nayak, Tapan Kumar Testing equality of conditionally independent exponential distributions. **89b:62057**
Nedeljković, Ranko R. *see* **Banjević, Dragan M., 89e:90108**
Noor, Hamed Saad *see* **Biswas, Suddhendu, 89m:62111**
Onose, Hiroshi Note on the failure rate characterizations. **89h:60150**
Padgett, W. J. *see* **Lio, Y. L., 89m:62040**
Papastavridis, S. A Weibull limit for the reliability of a consecutive k-within-m-out-of-n system. **89h:90113**
Park, Dong Ho (*with* Saxena, K. M. Lal) Nonparametric procedure for selecting the least NBU population: large sample approach. **89g:62038**
Pereverzev, E. S. ★ Случайные процессы в параметрических моделях надежности. (Russian) [Random processes in parametric reliability models] **89b:60202**
Proschan, Frank *see* **Kim, Jee Soo; et al., 89i:62082**
Rachev, S. T. *see* **Yakovlev, A. Yu., 89i:62068**
Ragab, Aisha (*with* Green, Jack) Estimation of the parameters of the loglogistic distribution based on order statistics. **89a:62069**
Reinschke, K. J. (*with* Ushakov, I. A.) ★ Zuverlässigkeitsstrukturen. (German) [Reliability structures] **89h:90114**
Robin, Maurice *see* **Menaldi, José-Luis, 89h:90105**
Rohatgi, Vijay K. *see* **Krishnamoorthy, K., 89j:62040**
Salem, Samia A. Bayesian estimation based on mixed Weibull and multicensored samples. **89e:62039**
Savchuk, V. P. Empirical Bayesian estimates for the probability of failure-free operation under conditions of data accumulation. **89d:62009**
Saxena, K. M. Lal *see* **Park, Dong Ho, 89g:62038**
Scarsini, M. (*with* Shaked, M.) Ordering distributions by scaled order statistics. (German summary) **89a:62039**
Sethuraman, Jayaram *see* **Kim, Jee Soo; et al., 89i:62082**
Shaked, M. *see* **Scarsini, M., 89a:62039**
Shamseldin, A. A. *see* **Abu-Salih, M. S., 89e:62038**
Shin, Kang G. *see* **Lee, Yann-Hang, 89a:68015**
Shkabardnya, A. M. *see* **Gaskarov, D. V.; et al., 89g:90080**
Slud, E. (*with* Byar, D.) How dependent causes of death can make risk factors appear protective. (French summary) **89b:62214**
Solonnikov, V. A. *see* **Clarotti, C. A.; et al., 89h:60149**
Spizzichino, F. *see* **Clarotti, C. A.; et al., 89h:60149**
Strelec, H. (*with* Viertl, R.) Estimation of power-type acceleration functions in life testing. **89k:90076**
Stute, Winfried *see* **Diehl, Sabine, 89f:62039**
Susarla, V. *see* **Gardiner, Joseph C.; et al., 89b:62173**
Tripathi, R. C. Two sample nonparametric procedures under random right censoring—a review. **89g:62073**
Tsêng, Shêng Ts’ang Selecting more reliable Weibull populations than a control. **89g:62040**
Ushakov, I. A. *see* **Reinschke, K. J., 89h:90114**
Van Ryzin, John *see* **Gardiner, Joseph C.; et al., 89b:62173**
Veraverbeke, N. *see* **Gijbels, I., 89a:62095**
Viertl, R. *see* **Strelec, H., 89k:90076**
Xie, Min On some importance measures of system components. **89f:60102**
Yakovlev, A. Yu. (*with* Rachev, S. T.) Bounds for crude survival probabilities within competing risks framework and their statistical application. **89i:62068**
Yao, Y.-C. (*with* Hwang, F. K.) A fundamental monotonicity in group testing. **89e:90208**
Zhou, Yan Kun Statistical analysis of a reliability growth model. (Chinese) **89m:90080**

62N10 Quality control [see also 90Bxx]

Abdurakhmanov, T. Unbiased estimates for the ratio of missed defective parts from the results of a test with the smallest sample size. (Russian) (*see* **89g:60002**)
Amin, R. *see* **Reynolds, Marion R., Jr.; et al.**, (Not in MR)
Arnold, Bernhard F. Approximately optimum two-stage sampling plans. **89j:62136**
Arnold, Jesse C. *see* **Reynolds, Marion R., Jr.; et al.**, (Not in MR)
Assaf, David A dynamic sampling approach for detecting a change in distribution. **89h:62162**
Barlow, Richard (*with* Zhang, Xiang) Bayesian analysis of inspection sampling procedures discussed by Deming. **89h:62163**
Bauer, Lothar ★ Inspektionsfehler in der attributiven Qualitätskontrolle. (German) [Inspection errors in quality control by attributes] **89b:62208**
Bobrov, N. E. Confidence limits for the defectiveness acceptance level. **89m:62109**
Crosier, Ronald B. Multivariate generalizations of cumulative sum quality-control schemes. **89h:62164**
Gunther, Nina *see* **Kotz, S.; et al.**, (Not in MR)
Gusev, A. L. Group-testing procedures that use a priori information.
Hsu, Lie Fern (*with* Tapiero, Charles S.) A Bayes approach to quality control of an $M/G/1$ queue. **89b:62209**
Jin, Yong Kang *see* **Zhang, Wei Ming**, (Not in MR)
Johnson, Norman Lloyd^2 *see* **Kotz, S.; et al.**, (Not in MR)

Kotz, S. (*with* Johnson, Norman Lloyd^2; Gunther, Nina) Inspection errors in Graff-Roeloffs' modification of hierarchical Dorfman screening procedures. (Not in MR)
Kurihara, Koji Statistical inference processes and their properties based on knowledge functions in NISAN system. **89b:62210**
Lam, Yeh Bayesian approach to single variable sampling plans. **89c:62182**
Lumel′skiĭ, Ya. P. Control according to a quality criterion with classification errors.
(Maynard, James M.) *see* **Odeh, Robert E., 89b:62211**
Nachlas, Joel A. *see* **Reynolds, Marion R., Jr.; et al.**, (Not in MR)
Odeh, Robert E. (*with* Owen, D. B.) ★ Parts per million values for estimating quality levels. **89b:62211**
Ottieno, J. A. M. *see* **Patel, M. S., 89a:62215**
Owen, D. B. *see* **Odeh, Robert E., 89b:62211**
Park, Changsoon A corrected Wiener process approximation for CUSUM ARLS. **89a:62213**
— (*with* Reynolds, Marion R., Jr.) Nonparametric procedures for monitoring a location parameter based on linear placement statistics. **89a:62214**
Patel, M. S. (*with* Ottieno, J. A. M.) Optimum two stage group-screening with unequal group sizes and with errors in decisions. **89a:62215**
(Peterson, Max E.) *see* **Odeh, Robert E., 89b:62211**
Reynolds, Marion R., Jr. (*with* Arnold, Jesse C.; Amin, R.; Nachlas, Joel A.) $\overline{X}$ charts with variable sampling intervals. (Not in MR)
— *see also* **Park, Changsoon, 89a:62214**
Srivastava, Jaya On the inadequacy of the customary orthogonal arrays in quality control and general scientific experimentation, and the need of probing designs of higher revealing power. **89a:62216**
Tapiero, Charles S. *see* **Hsu, Lie Fern, 89b:62209**
Zhang, Wei Ming (*with* Jin, Yong Kang) Improvement of multilevel continuous sampling plans. (Chinese. English summary) (Not in MR)
Zhang, Xiang *see* **Barlow, Richard, 89h:62163**

Items with secondary classifications in 62N10

Arnold, Bernhard F. ★ Minimax-Prüfpläne für die Prozeßkontrolle. (German) [Minimax sampling inspection for process control] **89f:90069**
Christen, Claude A. (*with* Hwang, F. K.) Detecting the two complementary defectives with a balance scale. **89a:05023**
Fine, Charles H. A quality control model with learning effects. **89e:90119**
Hwang, F. K. *see* **Christen, Claude A., 89a:05023**
Liu, Fa Sheng A note on probabilities in proofreading. **89j:60020**
Murthy, D. N. P. (*with* Nguyen, D. G.) An optimal repair cost limit policy for servicing warranty. (*see* **89d:00007**)
Nelson, Peter R. Testing for interactions using the analysis of means. **89b:62166**
Nguyen, D. G. *see* **Murthy, D. N. P., (89d:00007)**
Tidmore, F. E. *see* **Turner, Danny W.; et al., 89g:92012**
Turner, Danny W. (*with* Tidmore, F. E.; Young, Dean M.) A calculus based approach to the blood testing problem. **89g:92012**
Young, Dean M. *see* **Turner, Danny W.; et al., 89g:92012**

62N99 None of the above, but in this section

Kalishev, O. N. A method for diagnosing measuring channels with account taken for prehistory. **89i:62167**

Items with secondary classifications in 62N99

Feistauerová, J. An entropic test of uniformity and optimality of codebooks. (Russian summary) (Not in MR)
Johnson, Norman Lloyd^2 (*with* Kotz, S.) Estimation from binomial data with classifiers of known and unknown imperfections. **89b:62070**
Kotz, S. *see* **Johnson, Norman Lloyd^2, 89b:62070**
Park, Nae Hyun Multivariate linear calibration with univariate controlled variable. **89a:62165**
Rao, Calyampuli Radhakrishna Some recent results in signal detection. **89d:62046**
Tartakovskiĭ, A. G. Detection of signals with random times of appearance and disappearance. **89f:94006**

62Pxx Applications [see also 82–XX, 90–XX, 92–XX]

62P05 Actuarial mathematics

(Andersen, Per Kragh) *see* **Ramlau-Hansen, Henrik**, (Not in MR)
(Bang Jespersen, Niels Chr.) *see* **Ramlau-Hansen, Henrik**, (Not in MR)
Björk, Tomas (*with* Grandell, Jan) Exponential inequalities for ruin probabilities in the Cox case. **89i:62168**
Boogaert, P. (*with* Haezendonck, J.; Delbaen, F.) Limit theorems for the present value of the surplus of an insurance portfolio. **89h:62165**
(Borch-Johnsen, Knut) *see* **Ramlau-Hansen, Henrik**, (Not in MR)
Brooks, R. J. (*with* Stone, Mervyn; Chan, F. Y.; Chan, Lai Kow) Cross-validatory graduation. **89i:62169**
Chan, F. Y. *see* **Brooks, R. J.; et al., 89i:62169**
Chan, Lai Kow *see* **Brooks, R. J.; et al., 89i:62169**
(Deckert, Torsten) *see* **Ramlau-Hansen, Henrik**, (Not in MR)
Delbaen, F. *see* **Boogaert, P.; et al., 89h:62165**
De Pril, Nelson Improved approximations for the aggregate claims distribution of a life insurance portfolio. **89j:62137**
De Vylder, F. (*with* Goovaerts, M. J.) Recursive calculation of finite-time ruin probabilities. **89j:62138**
Dufresne, François (*with* Gerber, Hans U.) The probability and severity of ruin for combinations of exponential claim amount distributions and their translations. **89d:62106**
Garrido, José Diffusion premiums for claim severities subject to inflation. **89e:62135**
Gerber, Hans U. Mathematical fun with ruin theory. **89m:62110**
— *see also* **Dufresne, François, 89d:62106**
Goovaerts, M. J. *see* **De Vylder, F., 89j:62138**
Grandell, Jan *see* **Björk, Tomas, 89i:62168**
Haezendonck, J. *see* **Boogaert, P.; et al., 89h:62165**
Hoem, Jan M. (*with* Linnemann, Per) The tails in moving average graduation. (Not in MR)
Hoy, Michael Insurance provision under a solvency requirement. **89i:62170**
Jacque, Laurent L. (*with* Tapiero, Charles S.) Premium valuation in international insurance. **89e:62136**
Jones, Michael C. On the relationship between the Poisson-exponential model and the noncentral chi-squared distribution. **89b:62212**
Linnemann, Per *see* **Hoem, Jan M.**, (Not in MR)
Lũthy, Herbert Stochastische Modelle zur Altersrentenindexierung in der beruflichen Vorsorge. (English and French summaries) [Stochastic models for indexing of retirement pensions in employee benefit plans] (Not in MR)
Neuhaus, Walther Early warning. **89g:62157**
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Sinha, Tapen Some applications of a model of term life insurance contracts. **89b:62213**
Stone, Mervyn *see* **Brooks, R. J.; et al., 89i:62169**
Sundt, Bjørn Credibility estimators with geometric weights. (Not in MR)
Tapiero, Charles S. *see* **Jacque, Laurent L., 89e:62136**
Wilkie, A. D. An actuarial model for AIDS. (Not in MR)
Willmot, Gordon E. The Poisson-inverse Gaussian distribution as an alternative to the negative binomial. **89g:62158**
Wolthuis, Henk Hattendorff's theorem for a continuous-time Markov model. **89c:62183**

Items with secondary classifications in 62P05

Bühlmann, H. Entwicklungstendenzen in der Risikotheorie. [Trends of development in risk theory] **89g:90026**
Centeno, Lourdes The expected utility applied to reinsurance. **89b:90023**
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Gerber, Hans U. (*with* Shiu, Elias S. W.) Nonuniqueness of option prices. **89i:90010**
Ito, Takatoshi Implicit contracts and risk aversion. **89e:90025**
(Manca, Raimondo) *see* **De Dominicis, Rodolfo, 89i:60177**
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— *see also* **Gerber, Hans U., 89i:90010**
Vaupel, James W. (*with* Yashin, A. I.; Manton, Kenneth G.) Debilitation's aftermath: stochastic process models of mortality. **89h:92057**
Yashin, A. I. *see* **Vaupel, James W.; et al., 89h:92057**

62P10 Biometrics

Albert, Paul S. *see* **Zeger, Scott L.; et al.**, (Not in MR)
Armitage, P. The search for optimality in clinical trials. (French summary) **89i:62172**
— *see also* **Barnard, G. A.; et al., 89i:62173**
Bailey, Norman T. J. Simplified modelling of the population dynamics of HIV/AIDS. (Not in MR)
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Barraj, L. M. *see* **Lagakos, S. W.; et al., 89i:62175**
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Bather, John On the allocation of treatments in sequential medical trials. (French summary) **89i:62171**
— *see also* **Barnard, G. A.; et al., 89i:62173**
Berger, Roger L. (*with* Boos, Dennis D.; Guess, Frank) Tests and confidence sets for comparing two mean residual life functions. (French summary) **89g:62160**
Biswas, Suddhendu (*with* Noor, Hamed Saad) Generalized age-dependent model for estimation of mean survival time in the presence of two competing risks. **89m:62111**
Boos, Dennis D. *see* **Berger, Roger L.; et al., 89g:62160**
Breslow, N. E. (*with* Cain, K. C.) Logistic regression for two-stage case-control data. **89j:62139**
Brookmeyer, Ron (*with* Gail, M. H.) Biases in prevalent cohorts. (French summary) **89a:62217**
Brown, Byron W., Jr. *see* **Whittemore, Alice S.; et al., 89d:62108**
Byar, D. *see* **Slud, E., 89b:62214**
Cain, K. C. *see* **Breslow, N. E., 89j:62139**
Carroll, Raymond J. *see* **Wu, Margaret C., 89d:62109**
Ceranka, B. (*with* Mejza, S.) Analysis of diallel table for experiments carried out in BIB designs—mixed model. (Not in MR)

Chernoff, Herman *see* **Barnard, G. A.; et al., 89i:62173**

Cheuvart, B. A nonparametric model for multiple recurrences. **89i:62174**

Coffey, Mary A random effects model for binary data from dependent samples. (French summary) **89h:62166**

Conover, William J. (*with* Salsburg, David S.) Locally most powerful tests for detecting treatment effects when only a subset of patients can be expected to "respond" to treatment. (French summary) **89g:62161**

Cooper, Vanessa *see* **Staniswalis, Joan G.**, (Not in MR)

De Gruttola, V. *see* **Lagakos, S. W.; et al., 89i:62175**

Demets, David L. *see* **Kim, Kyungmann, 89g:62164**

Diggle, Peter J. An approach to the analysis of repeated measurements. (French summary) (Not in MR)

Dinse, Gregg E. Estimating tumor incidence rates in animal carcinogenicity experiments. (French summary) **89f:62088**

Dynin, S. M. *see* **Bartoszyński, R., 89g:62159**

Esty, Warren W. A Simpson's rule version of the Spearman-Kärber estimator. **89g:62162**

Friend, Nina *see* **Whittemore, Alice S.; et al., 89d:62108**

Gail, M. H. (*with* Tan, W. Y.; Piantadosi, S.) Tests for no treatment effect in randomized clinical trials. (Not in MR)

— *see also* **Brookmeyer, Ron, 89a:62217**

Gnot, Stanisław (*with* Michalski, Andrzej) Estimation of parameters under Hardy-Weinberg law in population genetics. **89k:62127**

Guess, Frank *see* **Berger, Roger L.; et al., 89g:62160**

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Healy, M. J. R. (*with* Tillett, H. E.) Short-term extrapolation of the AIDS epidemic. (Not in MR)

Heltshe, James F. Jackknife estimate of the matching coefficient of similarity. (French summary) **89c:62184**

Hirji, Karim F. (*with* Mehta, C. R.; Patel, Nitin R.) Exact inference for matched case-control studies. (French summary) **89h:62167**

Hirotsu, C. A class of estimable contrasts in an age-period-cohort model. **89g:62163**

Holly, Elizabeth A. *see* **Whittemore, Alice S.; et al., 89d:62108**

Im, S. A note on heritability of a dichotomous trait. (French summary) **89a:62218**

Jain, J. P. *see* **Prabhakaran, V. T., 89d:62107**

Karrison, Theodore Restricted mean life with adjustment for covariates. **89c:62185**

Katapa, R. S. *see* **Srivastava, M. S.; et al., 89a:62220**

Keen, K. J. *see* **Srivastava, M. S.; et al., 89a:62220**

Khan, M. K. Optimal Bayesian estimation of the median effective dose. **89e:62138**

Kim, Kyungmann (*with* Demets, David L.) Confidence intervals following group sequential tests in clinical trials. (French summary) **89g:62164**

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Laska, Eugene M. (*with* Meisner, Morris; Siegel, Carole) Estimating the size of a population from a single sample. (French summary) **89h:62169**

Liang, Kung-Yee *see* **Zeger, Scott L.; et al.**, (Not in MR)

Louis, Thomas A. *see* **Barnard, G. A.; et al., 89i:62173**

Maller, R. A. Relating Cox's proportional hazard model to the exponential model for survival. **89a:62219**

Marsh, Gary M. *see* **Rao, B. Raja, 89h:62171**

Mehta, C. R. *see* **Hirji, Karim F.; et al., 89h:62167**

Meisner, Morris *see* **Laska, Eugene M.; et al., 89h:62169**

Mejza, S. *see* **Ceranka, B.**, (Not in MR)

Mendoza Ramirez, Manuel Bayes analysis of the assay of the quotient of gradients. (Spanish) (*see* **89k:00010**)

Michalski, Andrzej *see* **Gnot, Stanisław, 89k:62127**

Moeschberger, M. L. *see* **Klein, John P., 89m:62112**

Müller, Hans-Georg (*with* Schmitt, Thomas^2) Kernel and probit estimates in quantal bioassay. **89h:62170**

Noor, Hamed Saad *see* **Biswas, Suddhendu, 89m:62111**

Patel, Nitin R. *see* **Hirji, Karim F.; et al., 89h:62167**

Peto, Richard *see* **Barnard, G. A.; et al., 89i:62173**

Phelan, Michael J. (*with* Prabhu, N. U.) Nonparametric estimation from queues arising in staggered entry clinical trials. **89j:62140**

Piantadosi, S. *see* **Gail, M. H.; et al.**, (Not in MR)

Prabhakaran, V. T. (*with* Jain, J. P.) Probability of inadmissible estimates of heritability from full-sib analysis under a general model of gene action. **89d:62107**

Prabhu, N. U. *see* **Phelan, Michael J., 89j:62140**

Pregibon, D. *see* **Hastie, T.**, (**89i:62004**)

Prentice, Ross L. Correlated binary regression with covariates specific to each binary observation. (French summary) (Not in MR)

Rao, B. Raja (*with* Marsh, Gary M.) Approximate variance formulas and asymptotic joint sampling distributions of standardized risk ratios in the presence of competing risks in cohort studies. **89h:62171**

Robbins, Herbert (*with* Zhang, Cun Hui) Estimating a treatment effect under biased sampling. **89f:62089**

Salsburg, David S. *see* **Conover, William J., 89g:62161**

Schmitt, Thomas^2 *see* **Müller, Hans-Georg, 89h:62170**

Siegel, Carole *see* **Laska, Eugene M.; et al., 89h:62169**

Slud, E. (*with* Byar, D.) How dependent causes of death can make risk factors appear protective. (French summary) **89b:62214**

Srivastava, M. S. (*with* Keen, K. J.; Katapa, R. S.) Estimation of interclass and intraclass correlations in multivariate familial data. (French summary) **89a:62220**

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Staniswalis, Joan G. (*with* Cooper, Vanessa) Kernel estimates of dose response. (French summary) (Not in MR)

Sylvester, Richard J. A Bayesian approach to the design of phase II clinical trials. (French summary) **89h:62172**

Tan, W. Y. Bayesian approach to proportional odds models for survival analysis. (Not in MR)

— *see also* **Gail, M. H.; et al.**, (Not in MR)

Tillett, H. E. *see* **Healy, M. J. R.**, (Not in MR)

Tosteson, Tor D. (*with* Tsiatis, Anastasios A.) The asymptotic relative efficiency of score tests in a generalized linear model with surrogate covariates. **89i:62176**

Tsiatis, Anastasios A. *see* **Tosteson, Tor D., 89i:62176**

Whitehead, John Raymond *see* **Barnard, G. A.; et al., 89i:62173**

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Williams, David A. An exact confidence interval for the relative potency estimated from a multivariate bioassay. (French summary) (Not in MR)

Wingo, Dallas R. Methods for fitting the right-truncated Weibull distribution to life-test and survival data. (Not in MR)

Wu, Margaret C. (*with* Carroll, Raymond J.) Estimation and comparison of changes in the presence of informative right censoring by modeling the censoring process. (French summary) **89d:62109**

Zeger, Scott L. (*with* Liang, Kung-Yee; Albert, Paul S.) Models for longitudinal data: a generalized estimating equation approach. (French summary) (Not in MR)

Zhang, Cun Hui *see* **Robbins, Herbert, 89f:62089**

Items with secondary classifications in 62P10

Amato, David A. A generalized Kaplan-Meier estimator for heterogeneous populations. **89e:62126**

Arjas, E. (*with* Haara, P.) A logistic regression model for hazard: asymptotic results. **89a:62207**

Beck, Gerald J. *see* **Qu, Yin Sheng; et al., 89b:62135**

Brillinger, David R. Some statistical methods for random process data from seismology and neurophysiology. **89b:62202**

Burke, Murray D. (*with* Csörgő, Sándor; Horváth, Lajos) A correction to and improvement of: "Strong approximations of some biometric estimates under random censorship" [Z. Wahrsch. Verw. Gebiete **56** (1981), no. 1, 87–112; MR 83a:62102]. **89h:62058**

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Csörgő, Sándor *see* **Burke, Murray D.; et al., 89h:62058**

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Goormastic, Marlene *see* **Qu, Yin Sheng; et al., 89b:62135**

Govindarajulu, Z. (*with* Lindqvist, Bo Henry) Asymptotic efficiency of the Spearman estimator and characterizations of distributions. **89a:62118**

Haara, P. *see* **Arjas, E., 89a:62207**

Horváth, Lajos *see* **Burke, Murray D.; et al., 89h:62058**

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Isham, Valerie Mathematical modelling of the transmission dynamics of HIV infection and AIDS: a review. **89i:92044**

Ivanov, V. K. ★ Математическое моделирование и оптимизация лучевой терапии опухолей. (Russian) [Mathematical modeling and optimization of radiation therapy for tumors] **89j:92013**

Jones, Michael E. (*with* Taransky, Karen) Investigation of precursor-product relationships in radiotracer studies. **89i:92006**

Khamis, H. J. A measure of partial association between disease and genotype for the two-parent problem. **89a:92009**

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Kupper-Viaud, Mireille Estimation et modélisation du lien entre deux processus à indices dans $\mathbf{Z}^2$ et applications à l'épidémiologie. (English summary) [Estimation and modelization of the relation between two processes indexed in $\mathbf{Z}^2$, and applications to epidemiology] **89e:62114**

Lane, David A. Causality assessment for adverse drug reactions: an application of subjective probability to medical decision making. **89a:62022**

Lindqvist, Bo Henry *see* **Govindarajulu, Z., 89a:62118**

Manski, Charles F. Identification of binary response models. **89k:62040**

McKeague, Ian W. A counting process approach to the regression analysis of grouped survival data. **89i:62065**

Mélard, G. (*with* Roy, Roch) Modèles de séries chronologiques avec seuils. (English summary) [Time series models with thresholds] **89k:62117**

Morton, Newton E. Letter to the editors: tests of order in multipoint linkage. (Not in MR)

O'Sullivan, Finbarr Nonparametric estimation of relative risk using splines and cross-validation. **89e:62132**

Patterson, Richard L. Regression estimates of stochastic compartmental parameters using net balance and cumulative flow data. **89m:92027**

Prentice, Ross L. *see* **Self, Steven G., 89h:62068**

Qu, Yin Sheng (*with* Williams, George W.; Beck, Gerald J.; Goormastic, Marlene) A generalized model of logistic regression for clustered data. **89b:62135**

Rachev, S. T. (*with* Yakovlev, A. Yu.) Theoretical bounds for the tumor treatment efficacy. **89b:92008**

Roy, Roch *see* **Mélard, G., 89k:62117**

Self, Steven G. (*with* Prentice, Ross L.) Asymptotic distribution theory and efficiency results for case-cohort studies. **89h:62068**

Sühnel, Jürgen (*with* Veckenstedt, Anneliese) Modeling survival of experimentally virus-infected laboratory animals. (Not in MR)

Taransky, Karen *see* **Jones, Michael E., 89i:92006**

Telegdi, László Investigation of the structure of binary variables. (Hungarian. English summary) **89a:62147**

— Structural inference of binary variables. (Hungarian) **89m:62060**

Veckenstedt, Anneliese *see* **Sühnel, Jürgen**, (Not in MR)

Wilcox, Rand R. Pairwise comparisons of J independent regression lines over a finite interval, simultaneous pairwise comparison of their parameters, and the Johnson-Neyman procedure. **89h:62113**

Williams, George W. *see* **Qu, Yin Sheng; et al., 89b:62135**

Xu, Shi Jin *see* **Zhao, Le Ping; et al.**, (Not in MR)

Yakovlev, A. Yu. *see* **Rachev, S. T., 89b:92008**

Yu, Shun Zhang *see* **Zhao, Le Ping; et al.**, (Not in MR)

Zeisel, H. *see* **Freedman, D. A., 89h:92007**

Zeng, Zhao Pan A model for population systems with percentage distribution of birth order. (Chinese. English summary) **89d:92076**

Zhang, Zhao Huan *see* **Zhao, Le Ping; et al.**, (Not in MR)

Zhao, Le Ping (*with* Xu, Shi Jin; Zhang, Zhao Huan; Yu, Shun Zhang) Optimal estimation of parameters in logistic regression models and its clinical applications. (Chinese) (Not in MR)

62P15 Psychometrics

Alexander, Ralph A. (*with* Barrett, Gerald V.; Alliger, George M.; Carson, Kenneth P.) Towards a general model of nonrandom sampling and the impact on population correlation: generalizations of Berkson's fallacy and restriction of range. **89h:62173**

Alliger, George M. *see* **Alexander, Ralph A.; et al., 89h:62173**

Barrett, Gerald V. *see* **Alexander, Ralph A.; et al., 89h:62173**

Batchelder, William H. (*with* Romney, A. Kimball) Test theory without an answer key. **89e:62139**

Bockenholt, U. A logistic representation of multivariate paired-comparison models. **89a:62222**

van der Burg, Eeke (*with* de Leeuw, Jan; Verdegaal, Renée) Homogeneity analysis with k sets of variables: an alternating least squares method with optimal scaling features. (Not in MR)

Carson, Kenneth P. *see* **Alexander, Ralph A.; et al., 89h:62173**

Davison, Mark L. A reformulation of the general Euclidean model for the external analysis of preference data. (Not in MR)

Drasgow, Fritz *see* **Levine, Michael V., 89e:62140**

Gillett, Raphael Sample size determination in replication attempts: the standard normal z test. **89h:62174**

de Leeuw, Jan *see* **van der Burg, Eeke; et al.**, (Not in MR)

Levine, Michael V. (*with* Drasgow, Fritz) Optimal appropriateness measurement. **89e:62140**

Moran, P. A. P. Identification problems in latent trait models. **89h:62175**

Peay, Edmund R. Multidimensional rotation and scaling of configurations to optimal agreement. **89j:62141**

Romney, A. Kimball *see* **Batchelder, William H., 89e:62139**

Rosenbaum, Paul R. Probability inequalities for latent scales. **89m:62113**

Stout, William F. A nonparametric approach for assessing latent trait unidimensionality. **89b:62215**

Verdegaal, Renée *see* **van der Burg, Eeke; et al.**, (Not in MR)

Items with secondary classifications in 62P15

Bentler, P. M. *see* **Bonett, Douglas G.; et al., 89h:62009**

van Blokland-Vogelesang, Rian (*with* Verbeek, Albert; Eilers, Paul) Iterative estimation of pattern and error parameters in a probabilistic unidimensional unfolding model. **89g:92065**

Boik, Robert J. The Fisher-Pitman permutation test: a nonrobust alternative to the normal theory F test when variances are heterogeneous. **89i:62070**

Bonett, Douglas G. (*with* Woodward, J. Arthur; Bentler, P. M.) A linear model for estimating the size of a closed population. **89h:62009**

Buchanan, Bruce S. A model for repeat paired comparison preference tests. **89e:92049**

Eilers, Paul *see* **van Blokland-Vogelesang, Rian; et al., 89g:92065**

Koppen, M. G. M. (*with* Verhelst, N. D.) The exact runs test and some large sample approximations. **89h:62081**

(Lovie, A. D.) *see* **New developments in statistics for psychology and the social sciences, 89a:62002**

Newey, Whitney K. (*with* West, Kenneth D.) Hypothesis testing with efficient method of moments estimation. **89a:62053**

Verbeek, Albert *see* **van Blokland-Vogelesang, Rian; et al., 89g:92065**

Verhelst, N. D. *see* **Koppen, M. G. M., 89h:62081**

West, Kenneth D. *see* **Newey, Whitney K., 89a:62053**

Wilcox, Rand R. Controlling power in a heteroscedastic ANOVA procedure. **89h:62124**

— A new alternative to the ANOVA F and new results on James's second-order method. **89i:62042**

Woodward, J. Arthur *see* **Bonett, Douglas G.; et al., 89h:62009**

Items listed otherwise than by author

New developments in statistics for psychology and the social sciences ★ New developments in statistics for psychology and the social sciences. **89a:62002**

62P20 Econometrics [see also 90Axx]

Anderson, Gary Stanley A procedure for differentiating perfect-foresight-model reduced-form coefficients. (Not in MR)

(Anderson, T. W.) *see* **Sargan, John Denis, 89h:62184a** *and* **89h:62184b**

Andrews, Donald W. K. Chi-square diagnostic tests for econometric models. Introduction and applications. **89c:62187**

— (*with* Fair, Ray C.) Inference in nonlinear econometric models with structural change. **89m:62114**

Aoki, Masanao *see* **Havenner, Arthur**, (Not in MR)

Balestra, Pietro (*with* Varadharajan-Krishnakumar, Jayalakshmi) Full information estimations of a system of simultaneous equations with error component structure. **89d:62110**

Basmann, R. L. Causality tests and observationally equivalent representations of econometric models. (Not in MR)

Battese, George E. (*with* Coelli, Tim J.) Prediction of firm-level technical efficiencies with a generalized frontier production function and panel data. (Not in MR)

Bauwens, Luc *see* **Zellner, Arnold; et al., 89i:62180**

Beggs, John J. (*with* Nerlove, Marc) Biases in dynamic models with fixed effects. (Not in MR)

Bergstrom, Abram R. The history of continuous-time econometric models. (Not in MR)

Bernanke, Ben (*with* Bohn, Henning; Reiss, Peter C.) Alternative nonnested specification tests of time-series investment models. (Not in MR)

Bhargava, Alok Wald tests and systems of stochastic equations. **89a:62223**

Bierens, Herman J. (*with* Hartog, Joop) Nonlinear regression with discrete explanatory variables, with an application to the earnings function. **89i:62177**

Bohn, Henning *see* **Bernanke, Ben; et al.**, (Not in MR)

Bossert, Walter (*with* Pfingsten, Andreas) The circular and time reversal tests reconsidered in economic price index theory. **89j:62142**

Bowden, R. J. *see* **Turkington, D. A., 89m:62116**

Breusch, Trevor S. Maximum likelihood estimation of random effects models. **89b:62216**

Broemeling, Lyle D. (*with* Tsurumi, Hiroki) ★ Econometrics and structural change. **89g:62165**

Brouwer, Floor (*with* Nijkamp, Peter; Scholten, H.) Hybrid log-linear models for spatial interaction and stability analysis. **89h:62176**

Calzolari, Giorgio (*with* Panattoni, Lorenzo) Alternative estimators of FIML covariance matrix: a Monte Carlo study. **89k:62128**

Carraro, Carlo Square root Kalman algorithms in econometrics. **89j:62143**

Chib, Siddhartha (*with* Tiwari, Ram C.; Jammalamadaka, S. Rao) Bayes prediction in regressions with elliptical errors. **89j:62144**

Clarke, Judith A. (*with* Giles, David E. A.; Wallace, T. Dudley) Preliminary-test estimation of the error variance in linear regression. **89d:62111**

Coelli, Tim J. *see* **Battese, George E.**, (Not in MR)

von Collani, Elart Economic control of continuously monitored production processes. **89c:62188**

Cramer, J. S. ★ Econometric applications of maximum likelihood methods. **89c:62189**

Davidson, Russell (*with* MacKinnon, James G.) Implicit alternatives and the local power of test statistics. **89a:62224**

(Desai, Meghnad) *see* **Sargan, John Denis, 89k:62129**

Deschamps, Philippe J. A note on the maximum likelihood estimation of allocation systems. (Not in MR)

Diewert, Walter E. (*with* Wales, T. J.) A normalized quadratic semiflexible functional form. **89c:62190**

van Dijk, Herman K. A product of multivariate T densities as upper bound for the posterior kernel of simultaneous equation model parameters. **89h:62177**

— *see also* **Zellner, Arnold; et al., 89i:62180**

Dufour, Jean-Marie Estimators of the disturbance variance in econometric models: small-sample bias and the existence of moments. **89b:62217**

— Erratum: "Estimators of the disturbance variance in econometric models: small-sample bias and the existence of moments" [J. Econometrics **37** (1988), no. 2, 277–292; MR 89b:62217]. **89j:62145**

Durbin, James Maximum likelihood estimation of the parameters of a system of simultaneous regression equations. **89h:62178**

Epstein, Roy J. ★ A history of econometrics. **89d:62112**

Even, William E. Testing exogeneity in a probit model. (Not in MR)

Fair, Ray C. *see* **Andrews, Donald W. K., 89m:62114**

Farebrother, R. W. A remark on Magdalinos's k-class instrumental variable estimator. **89b:62218**

Furno, Marilena Bounded-influence instrumental variables estimator: an extension. **89b:62219**

Garen, John E. Relationships among estimators of triangular econometric models. **89a:62225**

Giles, David E. A. *see* **Clarke, Judith A.; et al., 89d:62111** *and* **Srivastava, Virender Kumar, 89e:62141**

Godfrey, L. G. (*with* Tremayne, A. R.) Checks of model adequacy for univariate time series models and their application to econometric relationships. (Not in MR)

Gouriéroux, Christian (*with* Monfort, Alain; Renault, Eric; Trognon, Alain) Résidus généralisés ou interprétations linéaires de l'économétrie non linéaire. [Generalized residuals or linear interpretations of nonlinear econometrics] **89h:62179**

Granger, C. W. J. Implications of aggregation with common factors. (Not in MR)

— Some recent developments in a concept of causality. **89j:62146**

Guerrero, Victor M. A note on the estimation of Atkinson's index of inequality. **89b:62220**

Hall, A. D. Worldwide rankings of research activity in econometrics: 1980–1985. (Not in MR)

Hartley, Michael J. Neoclassical econometries [econometrics]: the kernel. **89f:62090**

Hartog, Joop *see* **Bierens, Herman J., 89i:62177**

Harvey, A. C. (*with* Stock, James H.) Continuous time autoregressive models with common stochastic trends. **89m:62115**

Havenner, Arthur (*with* Aoki, Masanao) An instrumental variables interpretation of linear systems theory estimation. (Not in MR)

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(Hendry, David) *see* **Spanos, Aris, 89g:62170**

Hodoshima, Jiro The class of BAN estimators of a single structural equation with structural change. **89b:62222**

— Estimation of a single structural equation with structural change. **89j:62147**

(**Hoffman, Dennis**) *see* **Issues in econometric forecasting, 89g:62173**
Holly, Alberto (*with* Magnus, Jan R.) A note on instrumental variables and maximum likelihood estimation procedures. (French summary) **89j:62148**
Jammalamadaka, S. Rao *see* **Chib, Siddhartha; et al., 89j:62144**
Joe, Harry An ordering of dependence for distribution of k-tuples, with applications to lotto games. (French summary) **89c:62191**
Judge, George *see* **Yi, Gang, 89h:62185**
Kao, Chihwa (*with* Schnell, John F.) Errors in variables in the multinomial response model. **89b:62223**
— (*with* Schnell, John F.) Erratum: "Errors in variables in a random-effects probit model for panel data" [Econom. Lett. **24** (1987), no. 4, 339–342]. (Not in MR)
Kearney, Colm *see* **MacDonald, Ronald, 89a:62228**
Kirchen, Alfons ★ Schätzung zeitveränderlicher Strukturparameter in ökonometrischen Prognosemodellen. (German) [Estimation of time-variable structural parameters in econometric forecasting models] **89f:62091**
Klepper, Steven (*with* Stapleton, David C.) Consistent sets of estimates for restricted regressions with errors in all variables. **89a:62226**
— Regressor diagnostics for the classical errors-in-variables model. **89b:62224**
— Bounding the effects of measurement error in regressions involving dichotomous variables. **89g:62166**
(**Krelle, Wilhelm**) *see* **Kirchen, Alfons, 89f:62091**
Kunitomo, Naoto A third order optimum property of the ML estimator in a linear functional relationship model and simultaneous equation system in econometrics. **89c:62192**
— Approximate distributions and power of test statistics for overidentifying restrictions in a system of simultaneous equations. **89j:62149**
Lewbel, Arthur Fractional demand systems. **89b:62225**
— An exactly aggregable trigonometric Engel curve demand system. (Not in MR)
Lien, Da-Hsiang Donald (*with* Rearden, David) Missing measurements in limited dependent variable models. **89d:62113**
Lütkepohl, Helmut Prediction tests for structural stability. **89h:62180**
Maasoumi, Esfandiar Unknown regression functions and efficient functional forms: an interpretation. **89a:62227**
— *see also* **Sargan, John Denis, 89h:62184a** *and* **89h:62184b**
MacDonald, Ronald (*with* Kearney, Colm) On the specification of Granger-causality tests using the cointegration methodology. **89a:62228**
MacKinnon, James G. *see* **Davidson, Russell, 89a:62224**
Magnus, Jan R. *see* **Heijmans, R. D. H., 89b:62221** *and* **Holly, Alberto, 89j:62148**
Mallela, Parthasaradhi (*with* Yoo, Sang-Hee) On the inadequacy of sufficient conditions under "limited information" identification. **89i:62178**
Maravall, Agustin On the dynamic structure of a seasonal component. **89h:62181**
Monfort, Alain *see* **Gouriéroux, Christian; et al., 89h:62179**
von zur Muehlen, Peter *see* **Swamy, P. A. V. B.**, (Not in MR)
Nadiri, M. Ishaq *see* **Prucha, Ingmar R., 89c:62194**
Nankervis, J. C. (*with* Savin, N. E.) The exact moments of the least-squares estimator for the autoregressive model: corrections and extensions. (Not in MR)
Naylor, J. C. (*with* Smith, Adrian F. M.) Econometric illustrations of novel numerical integration strategies for Bayesian inference. **89c:62193**
Nerlove, Marc *see* **Beggs, John J.**, (Not in MR)
Newey, Whitney K. Efficient estimation of limited dependent variable models with endogenous explanatory variables. **89a:62229**
— Asymptotic equivalence of closest moments and GMM estimators. **89h:62182**
Nijkamp, Peter *see* **Brouwer, Floor; et al., 89h:62176**
Panattoni, Lorenzo *see* **Calzolari, Giorgio, 89k:62128**
Pervozvanskaya, T. N. (*with* Pervozvanskiĭ, Anatoli A.) The connection between group indices in sectoral planning and the group interpretation of the method of least squares. (Russian) (Not in MR)
Pervozvanskiĭ, Anatoli A. *see* **Pervozvanskaya, T. N.**, (Not in MR)
Pfingsten, Andreas *see* **Bossert, Walter, 89j:62142**
Phillips, P. C. B. Large deviation expansions in econometrics. **89b:62226**
Poirier, Dale J. Causal relationships and replicability. **89g:62167**
— (*with* Ruud, Paul A.) Probit with dependent observations. **89j:62150**
Pratt, John W. (*with* Schlaifer, Robert) On the interpretation and observation of laws. **89j:62151**
Prucha, Ingmar R. (*with* Nadiri, M. Ishaq) On the computation of estimators in systems with implicitly defined variables. **89c:62194**
Rayner, Robert K. Some asymptotic theory for the bootstrap in econometric models. **89b:62227**
Rearden, David *see* **Lien, Da-Hsiang Donald, 89d:62113**
Reiss, Peter C. *see* **Bernanke, Ben; et al.**, (Not in MR)
Renault, Eric *see* **Gouriéroux, Christian; et al., 89h:62179**
Robinson, P. M. The stochastic difference between econometric statistics. **89h:62183**
Rockel, Mark L. *see* **Turner, Robert W.**, (Not in MR)
Roehrig, Charles S. Conditions for identification in nonparametric and parametric models. **89g:62168**
Ruud, Paul A. *see* **Poirier, Dale J., 89j:62150**
Sargan, John Denis ★ Contributions to econometrics. Vol. 1. **89h:62184a**
— ★ Contributions to econometrics. Vol. 2. **89h:62184b**
— ★ Lectures on advanced econometric theory. **89k:62129**
Sartore, Domenico Some remarks on the causality definitions in the nonlinear theory of stochastic processes. (French and Italian summaries) **89c:62195**
Savin, N. E. *see* **Nankervis, J. C.**, (Not in MR)
Schlaifer, Robert *see* **Pratt, John W., 89j:62151**
Schmidt, Peter Joseph Estimation of a fixed-effect Cobb-Douglas system using panel data. **89b:62228**
— *see also* **Issues in econometric forecasting, 89g:62173**
Schneider, Wolfgang Analytical uses of Kalman filtering in econometrics—a survey. **89g:62169**
Schnell, John F. *see* **Kao, Chihwa, 89b:62223** *and* (Not in MR)
Scholten, H. *see* **Brouwer, Floor; et al., 89h:62176**
Shrestha, Keshab Estimation of a general linear model with an unobservable stochastic variable. **89i:62179**
Smith, Adrian F. M. *see* **Naylor, J. C., 89c:62193**
Spanos, Aris ★ Statistical foundations of econometric modelling. **89g:62170**
Srivastava, Virender Kumar (*with* Giles, David E. A.) ★ Seemingly unrelated regression equations models. **89e:62141**
Stahlecker, P. ★ A priori Information und Minimax-Schätzung im linearen Regressionsmodell. (German) [A priori information and minimax estimation in the linear regression model] **89g:62171**
Stapleton, David C. *see* **Klepper, Steven, 89a:62226**
Stock, James H. *see* **Harvey, A. C., 89m:62115**
Swamy, P. A. V. B. (*with* von zur Muehlen, Peter) Further thoughts on testing for causality with econometric models. (Not in MR)
Tiwari, Ram C. *see* **Chib, Siddhartha; et al., 89j:62144**
Tremayne, A. R. *see* **Godfrey, L. G.**, (Not in MR)
Trognon, Alain *see* **Gouriéroux, Christian; et al., 89h:62179**
Tsui, Kai Yuen The measurement of export instability: a methodological note. **89g:62172**
Tsurumi, Hiroki *see* **Broemeling, Lyle D., 89g:62165**
Turkington, D. A. (*with* Bowden, R. J.) Identification information and instruments in linear econometric models with rational expectations. **89m:62116**
Turner, Robert W. (*with* Rockel, Mark L.) Estimating covariances of parameter estimates from different models. (Not in MR)
Vanhonacker, Wilfried R. Estimating the duration of dynamic effects with temporally aggregated observations. (Not in MR)
Varadharajan-Krishnakumar, Jayalakshmi *see* **Balestra, Pietro, 89d:62110**
Wales, T. J. *see* **Diewert, Walter E., 89c:62190**
Wallace, T. Dudley *see* **Clarke, Judith A.; et al., 89d:62111**
Weihs, Claus ★ Auswirkungen von Fehlern in den Daten auf Parameterschätzungen und Prognosen. (German) [Effects of errors in the data on parameter estimates and prognoses] **89b:62229**
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Balestra, Pietro *see* **Kmenta, Jan, 89a:62162**
Blanchet, Didier A stochastic version of the Malthusian trap model: consequences for the empirical relationship between economic growth and population growth in LDCs. **89h:92041**
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Chesher, Andrew (*with* Jewitt, Ian) The bias of a heteroskedasticity consistent covariance matrix estimator. **89g:62099**
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Dastoor, Naorayex K. (*with* Fisher, Gordon Ray) On point-optimal Cox tests. **89h:62100**
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van Schuppen, J. H. Stochastic realization problems motivated by econometric modeling. **89c:93067**
Sen, Pranab Kumar The harmonic Gini coefficient and affluence indexes. **89h:90068**
Sienknecht, Hans-Peter ★ Probleme der Konstruktion und Überprüfung ökonometrischer Modelle der Konsumgüternachfrage. (German) [Problems of construction and checking of econometric models of the demand for consumer goods] **89j:90078**
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62P25 Sociometrics

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Keyfitz, Nathan A Markov chain for calculating the durability of marriage. **89h:92065**
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62P99 None of the above, but in this section

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Ogata, Yosihiko (*with* Katsura, Koichi) Likelihood analysis of spatial inhomogeneity for marked point patterns. **89f:62093**

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Balakrishnan, N. (*with* Leung, M. Y.) Means, variances and covariances of order statistics, BLUEs for the type I generalized logistic distribution, and some applications. (Not in MR)
Bock, M. E. (*with* Solomon, Herbert) Tables for distributions of quadratic forms. **89i:62181**
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Franklin, L. A. Exact tables of Spearman's footrule for $N = 11(1)18$ with estimate of convergence and errors for the normal approximation. (Not in MR)
Horn, Manfred *see* **Rausch, W.**, (Not in MR)
Jennings, Linda W. (*with* Young, Dean M.) Extended critical values of the multivariate extreme deviate test for detecting a single spurious observation. (Not in MR)
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(Pearson, N. S.) *see* **Selected tables in mathematical statistics, 89b:62230**
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Walter, S. D. (*with* Stitt, L. W.) Extended tables for moments of gamma distribution order statistics. (Not in MR)
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Anděl, Jiří (*with* Zvára, Karel) Tables for AR(1) processes with exponential white noise. **89i:62143**
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(Maynard, James M.) *see* **Odeh, Robert E., 89b:62211**
Odeh, Robert E. (*with* Owen, D. B.) ★ Parts per million values for estimating quality levels. **89b:62211**
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65–XX Numerical analysis

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Wang, Xia Chao *see* **Yang, Xue Shi**, (Not in MR)
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65–00 Handbooks, dictionaries, and other reference works

Abel, John F. *see* **White, Donald W.**, (Not in MR)
Brand, K. (*with* Lemke, M.; Linden, Johannes) Multigrid bibliography. (*see* **89m:65004**)
Coleman, Thomas F. (*with* Van Loan, Charles) ★ Handbook for matrix computations. **89h:65001**
Flannery, Brian P. *see* **Press, William H.; et al., 89b:65001a** *and* **Vetterling, William T.; et al., 89b:65001b**
Ivanov, Viktor Vladimirovich ★ Методы вычислений на ЭВМ. [Computational methods on a computer] **89a:65001**
(Kardestuncer, H.) *see* **Handbook: Finite element, 89g:65001**
Lemke, M. *see* **Brand, K.; et al.**, (**89m:65004**)
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(Norrie, D. H.) *see* **Handbook: Finite element, 89g:65001**
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Smith, I. M. (*with* Griffiths, D. V.) ★ Programming the finite element method. **89d:65101**

65-01 Elementary exposition; textbooks

Allen, Myron B., III (*with* Herrera, I.; Pinder, G. F.) ★ Numerical modeling in science and engineering. **89g:65002**
(Armstrong, A. H.) *see* **Schmid, Erich W.; et al., 89j:65005**
Bakhvalov, N. S. (*with* Zhidkov, N. P.; Kobel′kov, G. M.) ★ Численные методы. (Russian) [Numerical methods] **89d:65001**
Beauquet, Gilles (*with* Pogu, Marc) ★ Programmation des éléments finis $(P_1, 2D)$. (French) [Programming the finite elements $(P_1, 2D)$] **89k:65001**
Briggs, William L. ★ A multigrid tutorial. **89j:65001**
Brouaye, Françoise ★ Algorithmes pour le calcul numérique. (French) [Algorithms for numerical computation] **89f:65001**
(Burdakov, O. P.) *see* **Dennis, John E., Jr., 89j:65002**
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Dennis, John E., Jr. (*with* Schnabel, Robert B.) ★ Численные методы безусловной оптимизации и решения нелинейных уравнений. (Russian) [Numerical methods for unconstrained optimization and solutions of nonlinear equations] **89j:65002**
Euvrard, Daniel ★ Résolution numérique des équations aux dérivées partielles de la physique, de la mécanique et des sciences de l'ingénieur. (French) [Numerical solution of partial differential equations in physics, mechanics and engineering] **89d:65002**
(Evtushenko, Yu. G.) *see* **Dennis, John E., Jr., 89j:65002**
Fox, Leslie (*with* Mayers, D. F.) ★ Numerical solution of ordinary differential equations. **89g:65003**
Greenspan, Donald (*with* Casulli, Vincenzo) ★ Numerical analysis for applied mathematics, science, and engineering. **89g:65004**
Hamming, R. W. ★ Numerical methods for scientists and engineers. **89h:65002**
Herrera, I. *see* **Allen, Myron B., III; et al., 89g:65002**
Jacques, Ian (*with* Judd, Colin) ★ Numerical analysis. **89b:65002**
Johnson, Claes ★ Numerical solution of partial differential equations by the finite element method. **89b:65003a**
— ★ Numerical solution of partial differential equations by the finite element method. **89b:65003b**
Judd, Colin *see* **Jacques, Ian, 89b:65002**
Kiełbasiński, A. (*with* Schwetlick, H.) ★ Numerische lineare Algebra. (German) [Numerical linear algebra] **89e:65001**
Kobel′kov, G. M. *see* **Bakhvalov, N. S.; et al., 89d:65001**
Lösch, Wolfgang *see* **Schmid, Erich W.; et al., 89j:65005**
MacKeown, P. K. (*with* Newman, Douglas John) ★ Computational techniques in physics. **89a:65002**
Maron, M. J. ★ Numerical analysis. **89h:65003**
Martin, Ralph R. *see* **Nutbourne, Anthony W., 89h:65004**
Mason, John C. (*with* Stocks, D. C.) ★ BASIC differential equations. **89j:65003**
Mathews, John H. ★ Numerical methods for computer science, engineering, and mathematics. **89j:65004**
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Nougier, J. P. ★ Méthodes de calcul numérique. (French) [Methods of numerical calculation] **89a:65003**
Nutbourne, Anthony W. (*with* Martin, Ralph R.) ★ Differential geometry applied to curve and surface design. Vol. 1. **89h:65004**
Pinder, G. F. *see* **Allen, Myron B., III; et al., 89g:65002**
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Schmid, Erich W. (*with* Spitz, Gerhard; Lösch, Wolfgang) ★ Theoretical physics on the personal computer. **89j:65005**
Schnabel, Robert B. *see* **Dennis, John E., Jr., 89j:65002**
Schwetlick, H. *see* **Kiełbasiński, A., 89e:65001**
Sewell, Granville ★ The numerical solution of ordinary and partial differential equations. **89i:65001**
Sibony, Moïse ★ Analyse numérique. III. (French) [Numerical analysis. III] **89k:65002**
Spellucci, Peter *see* **Törnig, Willi, 89j:65006**
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Thisted, Ronald A. ★ Elements of statistical computing. **89h:65005**
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Turchak, L. I. ★ Основы численных методов. (Russian) [The fundamentals of numerical methods] **89b:65004**
Twizell, E. H. ★ Numerical methods, with applications in the biomedical sciences. **89h:65006**
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Barsky, Brian A. *see* **Bartels, Richard H.; et al., 89f:65018**
Bartels, Richard H. (*with* Beatty, John C.; Barsky, Brian A.) ★ An introduction to splines for use in computer graphics and geometric modeling. **89f:65018**
Beatty, John C. *see* **Bartels, Richard H.; et al., 89f:65018**
(Bénilan, P.) *see* **Dautray, Robert, 89m:00003b**
(Bernadou, Michel) *see* **Dautray, Robert, 89m:00003b**
(Bézier, Pierre) *see* **Ding, Qiu Lin, 89b:65037** *and* **Bartels, Richard H.; et al., 89f:65018**
Brassard, Gilles (*with* Bratley, Paul) ★ Algorithmique. (French) [Computer algorithms] **89d:68001**
Bratley, Paul *see* **Brassard, Gilles, 89d:68001**
Carrier, George F. (*with* Pearson, Carl E.) ★ Partial differential equations. **89j:35001**
(Cessenat, Michel) *see* **Dautray, Robert, 89m:00003b**
Dautray, Robert (*with* Lions, J.-L.) ★ Analyse mathématique et calcul numérique pour les sciences et les techniques. Vol. 6. (French) [Mathematical analysis and computing for science and technology. Vol. 6] **89m:00003b**
Davies, B. J. *see* **Ding, Qiu Lin, 89b:65037**
Delves, L. M. (*with* Mohamed, J. L.) ★ Computational methods for integral equations. **89b:65311**
Ding, Qiu Lin (*with* Davies, B. J.) ★ Surface engineering geometry for computer-aided design and manufacture. **89b:65037**
Fatunla, Simeon Ola ★ Numerical methods for initial value problems in ordinary differential equations. **89j:65053**
(Forrest, A. Robin) *see* **Bartels, Richard H.; et al., 89f:65018**
Heitzinger, W. (*with* Troch, I.; Valentin, G.) ★ Praxis nichtlinearer Gleichungen. (German) [Practice of nonlinear equations] **89a:65081**
Khovanskiĭ, G. S. ★ Номография сегодня. (Russian) [Nomography today] **89b:65323**
Lions, J.-L. *see* **Dautray, Robert, 89m:00003b**
Marti, Jürg ★ Introduction to Sobolev spaces and finite element solution of elliptic boundary value problems. **89c:46050**
Mohamed, J. L. *see* **Delves, L. M., 89b:65311**
Nazareth, J. L. ★ Computer solution of linear programs. **89g:65078**
(Nédélec, Jean-Claude) *see* **Dautray, Robert, 89m:00003b**
Pearson, Carl E. *see* **Carrier, George F., 89j:35001**
(Planchard, Jacques) *see* **Dautray, Robert, 89m:00003b**
Schwarz, H.-R. ★ Finite element methods. **89h:65190**
Troch, I. *see* **Heitzinger, W.; et al., 89a:65081**
Valentin, G. *see* **Heitzinger, W.; et al., 89a:65081**
(Whiteman, Caroline M.) *see* **Schwarz, H.-R., 89h:65190**
(Whiteman, J. R.) *see* **Schwarz, H.-R., 89h:65190**

65-02 Advanced exposition (research surveys, monographs, etc.)

Bank, R. *see* **Mandel, Jan; et al.**, (**89m:65004**)
Baumeister, Johann ★ Stable solution of inverse problems. **89a:65004**
(Belotserkovskiĭ, O. M.) *see* **Magomedov, K. M., 89m:65001**
Brandt, Achi Multilevel approaches to large scale problems. **89d:65003**
Brebbia, Carlos Alberto (*with* Telles, J. C. F.; Wrobel, L. C.) ★ Методы граничных элементов. (Russian) [Boundary element techniques] **89i:65002**
— *see also* **Doblaré, M.; et al., 89b:65005**
Briggs, William L. (*with* McCormick, Stephen F.) Introduction. (*see* **89m:65004**)
Cox, M. G. Advances in reliable numerical computation: a summary. **89h:65007**
Dekker, K. (*with* Verwer, Jan G.) ★ Устойчивость методов Рунге-Кутты для жестких нелинейных дифференциальных уравнений. (Russian) [Stability of Runge-Kutta methods for stiff nonlinear differential equations] **89c:65001**
Doblaré, M. (*with* Hromadka, Th. V., II; Iso, Yuusuke; O'Callaghan, M. J. A.; Onishi, K.; Pina, H.; Quinlan, P. M.; Schippers, H.; Takahashi, Shuichi; Tanaka, Masataka; Telles, J. C. F.; Wrobel, L. C.) ★ Topics in boundary element research. Vol. 3. **89b:65005**
(Filippov, S. S.) *see* **Dekker, K., 89c:65001**
Gilyazov, S. F. ★ Методы решения линейных некорректных задач. (Russian) [Methods for solving linear ill-posed problems] **89c:65002**
(Grigolyuk, È. I.) *see* **Brebbia, Carlos Alberto; et al., 89i:65002**
Hemker, P. W. (*with* Johnson, G. M.) Multigrid approaches to the Euler equations. (*see* **89m:65004**)
Hromadka, Th. V., II *see* **Doblaré, M.; et al., 89b:65005**
(Ikramov, Kh. D.) *see* **Pissanetzky, Sergio, 89h:65008**
Iso, Yuusuke *see* **Doblaré, M.; et al., 89b:65005**
Johnson, G. M. *see* **Hemker, P. W.**, (**89m:65004**)
(Kaporin, I. E.) *see* **Pissanetzky, Sergio, 89h:65008**
Kholodov, A. S. *see* **Magomedov, K. M., 89m:65001**
(Korneĭchuk, L. G.) *see* **Brebbia, Carlos Alberto; et al., 89i:65002**
(Kul′chitskaya, I. A.) *see* **Dekker, K., 89c:65001**
Magomedov, K. M. (*with* Kholodov, A. S.) ★ Сеточно-характеристические численные методы. (Russian) [Difference-characteristic numerical methods] **89m:65001**
Mandel, Jan (*with* McCormick, Stephen F.; Bank, R.) Variational multigrid theory. (*see* **89m:65004**)
Mann, James E., Jr. *see* **Simmonds, James G., 89m:65002**
Marchuk, G. I. ★ Методы расщепления и переменных направлений. (Russian) [Splitting and alternating directions methods] **89g:65005**
McCormick, Stephen F. *see* **Briggs, William L.**, (**89m:65004**); **Mandel, Jan; et al.**, (**89m:65004**) *and* **Multigrid methods, 89m:65004**
Molchanov, I. N. ★ Машинные методы решения прикладных задач. Дифференциальные уравнения. (Russian) [Computer methods for solving applied problems. Differential equations] **89k:65003**
O'Callaghan, M. J. A. *see* **Doblaré, M.; et al., 89b:65005**
Onishi, K. *see* **Doblaré, M.; et al., 89b:65005**
Pina, H. *see* **Doblaré, M.; et al., 89b:65005**
Pissanetzky, Sergio ★ Технология разреженных матриц. (Russian) [Sparse matrix technology] **89h:65008**
Quinlan, P. M. *see* **Doblaré, M.; et al., 89b:65005**
Reid, J. K. Algebraic aspects of finite-element solutions. **89b:65006**
Ruge, J. (*with* Stüben, Klaus) Algebraic multigrid. (*see* **89m:65004**)
(Samarskiĭ, A. A.) *see* **Dekker, K., 89c:65001**
Schippers, H. *see* **Doblaré, M.; et al., 89b:65005**
Simmonds, James G. (*with* Mann, James E., Jr.) ★ A first look at perturbation theory. **89m:65002**
Stüben, Klaus *see* **Ruge, J.**, (**89m:65004**)
Takahashi, Shuichi *see* **Doblaré, M.; et al., 89b:65005**
Tanaka, Masataka *see* **Doblaré, M.; et al., 89b:65005**
Tarantola, Albert ★ Inverse problem theory. **89b:65007**
Telles, J. C. F. *see* **Doblaré, M.; et al., 89b:65005** *and* **Brebbia, Carlos Alberto; et al., 89i:65002**

Temam, Roger Survey of the status of finite element methods for partial differential equations. **89m:65003**

Vasil'ev, V. I. ★ Численное интегрирование дифференциальных уравнений с нелокальными граничными условиями. (Russian) [Numerical integration of differential equations with nonlocal boundary conditions] **89b:65008**

Verwer, Jan G. *see* **Dekker, K., 89c:65001**

Wesseling, P. Linear multigrid methods. (*see* **89m:65004**)

Wrobel, L. C. *see* **Doblaré, M.; et al., 89b:65005** *and* **Brebbia, Carlos Alberto; et al., 89i:65002**

(Zakharov, A. Yu.) *see* **Dekker, K., 89c:65001**

Items listed otherwise than by author

Multigrid methods ★ Multigrid methods. **89m:65004**

Items with secondary classifications in 65–02

Bauch, Hartmut (*with* Jahn, K.-U.; Oelschlägel, Dieter; Süsse, H.; Wiebigke, Volkmar) ★ Intervallmathematik. (German) [Interval mathematics] **89c:65061**

Canuto, Claudio (*with* Hussaini, M. Y.; Quarteroni, A.; Zang, T. A.) ★ Spectral methods in fluid dynamics. **89m:76004**

Farebrother, R. W. ★ Linear least squares computations. **89h:62101**

Ford, William F. *see* **Smith, David Alexander; et al., 89j:65013a** *and* **89j:65013b**

Hromadka, Th. V., II (*with* Yen, Ch.-Ch.; Pinder, G. F.) ★ The best approximation method. An introduction. **89b:65288**

Hussaini, M. Y. *see* **Canuto, Claudio; et al., 89m:76004**

Jahn, K.-U. *see* **Bauch, Hartmut; et al., 89c:65061**

(Kardestuncer, H.) *see* **Handbook: Finite element, 89g:65001**

Mikhaĭlov, G. A. ★ Оптимизация весовых методов Монте-Карло. (Russian) [Optimization of weighted Monte Carlo methods] **89i:65005**

(Mitropol'skiĭ, Yu. A.) *see* **Samoĭlenko, A. M., 89a:65121**

Morozov, V. A. ★ Регулярные методы решения некорректно поставленных задач. (Russian) [Regular methods for solving ill-posed problems] **89f:65063**

(Norrie, D. H.) *see* **Handbook: Finite element, 89g:65001**

Oelschlägel, Dieter *see* **Bauch, Hartmut; et al., 89c:65061**

Osipov, V. M. ★ Основы метода изображающих векторов. (Russian) [Principles of the method of representative vectors] **89a:65202**

Pinder, G. F. *see* **Hromadka, Th. V., II; et al., 89b:65288**

Quarteroni, A. *see* **Canuto, Claudio; et al., 89m:76004**

Ronto, N. I. *see* **Samoĭlenko, A. M., 89a:65121**

Samoĭlenko, A. M. (*with* Ronto, N. I.) ★ Численно-аналитические методы исследования решений краевых задач. (Russian) [Numerical-analytic methods for investigating the solutions of boundary value problems] **89a:65121**

Sidi, Avram *see* **Smith, David Alexander; et al., 89j:65013a** *and* **89j:65013b**

Smith, David Alexander (*with* Ford, William F.; Sidi, Avram) Extrapolation methods for vector sequences. **89j:65013a**

— (*with* Ford, William F.; Sidi, Avram) Correction to: "Extrapolation methods for vector sequences". **89j:65013b**

Süsse, H. *see* **Bauch, Hartmut; et al., 89c:65061**

Valeev, K. G. ★ Расщепление спектра матриц. (Russian) [Splitting of matrix spectra] **89f:65044**

Wiebigke, Volkmar *see* **Bauch, Hartmut; et al., 89c:65061**

Wilkinson, J. H. Eigenvalue problems. **89d:65042**

— ★ The algebraic eigenvalue problem. **89j:65031**

Yen, Ch.-Ch. *see* **Hromadka, Th. V., II; et al., 89b:65288**

Zang, T. A. *see* **Canuto, Claudio; et al., 89m:76004**

Items listed otherwise than by author

Handbook:

Finite element ★ Finite element handbook. **89g:65001**

65–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 65–03

(Babbage, Charles) *see* **Lindgren, Michael, 89g:01038**

(Doolen, Gary D.) *see* **Eckhardt, Roger, (89m:01133a)**

Eckhardt, Roger Stan Ulam, John von Neumann, and the Monte Carlo method. (*see* **89m:01133a**)

Evesham, H. A. Origins and development of nomography. **89d:01046**

(Hendricks, John) *see* **Eckhardt, Roger, (89m:01133a)**

Lindgren, Michael ★ Glory and failure. **89g:01038**

(McKay, Craig G.) *see* **Lindgren, Michael, 89g:01038**

McKee, Sean Industrial numerical analysis. (*see* **89c:00032**)

Metropolis, N. The beginning of the Monte Carlo method. (*see* **89m:01133a**)

(Müller, Johann) *see* **Lindgren, Michael, 89g:01038**

(von Neumann, John) *see* **Eckhardt, Roger, (89m:01133a)**

(Scheutz, Edvard) *see* **Lindgren, Michael, 89g:01038**

(Scheutz, Georg) *see* **Lindgren, Michael, 89g:01038**

(Ulam, Stan) *see* **Eckhardt, Roger, (89m:01133a)**

(Warnock, Tony) *see* **Eckhardt, Roger, (89m:01133a)**

65–04 Explicit machine computation and programs (not the theory of computation or programming)

Cryer, Colin W. *see* **Schulze, Klaus,** (Not in MR)

Davie, K. (*with* Wallace, Robert) Solution of bound state single variable eigenproblems by the extended renormalized Numerov method. **89j:65007**

Gaffney, P. When things go wrong.... (*see* **89b:65011**)

Glinskiĭ, Ya. N. (*with* Pan'kiv, O. Ya.) ★ Экспериментальное исследование эффективности алгоритмов и программ решения систем обыкновенных дифференциальных уравнений. (Russian) [An experimental study of the efficiency of algorithms and programs for solving systems of ordinary differential equations] **89k:65004**

Li, Lei *see* **You, Zhao Yong,** (Not in MR)

Pan'kiv, O. Ya. *see* **Glinskiĭ, Ya. N., 89k:65004**

Schulze, Klaus (*with* Cryer, Colin W.) NAXPERT: a prototype expert system for numerical software. (Not in MR)

Wallace, Robert *see* **Davie, K., 89j:65007**

You, Zhao Yong (*with* Li, Lei) Fast algorithms for some multidimensional problems. (Chinese) (Not in MR)

Items with secondary classifications in 65–04

Babushkina, L. V. (*with* Kerimov, M. K.; Nikitin, A. I.) Algorithms for the calculation of Bessel functions of half-integer indices with complex arguments. (Russian) **89m:65022a**

— (*with* Kerimov, M. K.; Nikitin, A. I.) Algorithms for calculating spherical Bessel functions in the complex domain. (Russian) **89m:65022b**

Barnett, A. R. *see* **Thompson, I. J., 89b:65054**

Barsky, Brian A. ★ Computer graphics and geometric modeling using beta-splines. **89g:65015**

Beauquet, Gilles (*with* Pogu, Marc) ★ Programmation des éléments finis $(P_1, 2D)$. (French) [Programming the finite elements $(P_1, 2D)$] **89k:65001**

Coleman, Thomas F. (*with* Van Loan, Charles) ★ Handbook for matrix computations. **89h:65001**

Dyumin, A. F. (*with* Egorov, S. N.) Analytic methods and algorithms for solving ordinary differential equations of the theory of linear systems. (Russian) **89h:34007**

Egorov, S. N. *see* **Dyumin, A. F., 89h:34007**

Flannery, Brian P. *see* **Press, William H.; et al., 89b:65001a** *and* **Vetterling, William T.; et al., 89b:65001b**

Gregory, R. T. (*with* Krishnamurthy, E. V.) ★ Безошибочные вычисления. (Russian) [Error-free calculations] **89j:65030**

(Ikramov, Kh. D.) *see* **Gregory, R. T., 89j:65030**

Kerimov, M. K. *see* **Babushkina, L. V.; et al., 89m:65022a** *and* **89m:65022b**

(Knyazev, Andreĭ Vladimirovich) *see* **Gregory, R. T., 89j:65030**

Krishnamurthy, E. V. *see* **Gregory, R. T., 89j:65030**

Nikitin, A. I. *see* **Babushkina, L. V.; et al., 89m:65022a** *and* **89m:65022b**

Onaga, Kenji (*with* Takechi, Takahiro; Ono, Norihiko) On design of wavefront-driven algorithms for processing large-scale band-limited matrices on rotary arrays. **89k:65054**

Ono, Norihiko *see* **Onaga, Kenji; et al., 89k:65054**

Perline, Ronald K. Time-band limiting matrices and Lamé's equation. **89h:34027**

Pogu, Marc *see* **Beauquet, Gilles, 89k:65001**

Press, William H. (*with* Flannery, Brian P.; Teukolsky, Saul A.; Vetterling, William T.) ★ Numerical recipes in C. **89b:65001a**

— *see also* **Vetterling, William T.; et al., 89b:65001b**

Sobyanin, A. V. Software for solving spectral problems of large dimension. (Russian) (*see* **89m:65005**)

Takechi, Takahiro *see* **Onaga, Kenji; et al., 89k:65054**

Tang, Ze Sheng Intersections of free form surfaces and generation of their fillets. (Chinese. English summary) (Not in MR)

Teukolsky, Saul A. *see* **Press, William H.; et al., 89b:65001a** *and* **Vetterling, William T.; et al., 89b:65001b**

Thompson, I. J. (*with* Barnett, A. R.) Modified Bessel functions $I_\nu(z)$ and $K_\nu(z)$ of real order and complex argument, to selected accuracy. **89b:65054**

Van Loan, Charles *see* **Coleman, Thomas F., 89h:65001**

Vetterling, William T. (*with* Teukolsky, Saul A.; Press, William H.; Flannery, Brian P.) ★ Numerical recipes example book (C). **89b:65001b**

— *see also* **Press, William H.; et al., 89b:65001a**

65–06 Proceedings, conferences, etc.

(Adams, Ernst Wilhelm) *see* **Discretization in differential equations and enclosures, 89a:65005**

(Anderssen, R. S.) *see* **Special program on inverse problems, 89m:65008**

(Ansorge, Rainer) *see* **Discretization in differential equations and enclosures, 89a:65005**

(Bathe, K.-J.) *see* **Reliability of methods for engineering analysis, 89c:65010**

(Boĭkov, I. V.) *see* **Optimal computation methods and their application, 89g:65006**

(Brebbia, Carlos Alberto) *see* **Boundary elements, 89f:65003**

(Butcher, J. C.) *see* **Recent theoretical results in numerical ordinary differential equations,** (Not in MR)

(Chan, Tony F.) *see* **Domain decomposition methods, 89j:65010**

(Cruse, T. A.) *see* **Advanced boundary element methods, 89b:65009**

(Dekker, Th. J.) *see* **Algorithms and applications on vector and parallel computers, 89f:65002**

(Dwoyer, Douglas L.) *see* **Finite elements, 89e:65002**

(Farin, Gerald) *see* **Geometric modeling, 89b:65010**

(Glowinski, R.) *see* **Symposium: Domain Decomposition Methods for Partial Differential Equations, 89f:65005** *and* **Domain decomposition methods, 89j:65010**

(Golub, Gene H.) *see* **Symposium: Domain Decomposition Methods for Partial Differential Equations, 89f:65005**

(Greenspan, Donald) *see* **Numerical methods, 89b:65012**

(Griffiths, D. F.) *see* **Numerical analysis 1987, 89b:65011**

(Grossmann, Ch.) *see* **Discretization in differential equations and enclosures, 89a:65005**

(Guo, Ben Yu) *see* **BAIL V, 89j:65008**

(Hackbusch, Wolfgang) *see* **Robust multi-grid methods, 89m:65007**

(Hadjidimos, A.) *see* **Iterative methods for the solution of linear systems,** (Not in MR)

(Hussaini, M. Y.) *see* **Finite elements, 89e:65002**

(Maier, Giulio) *see* **Boundary elements, 89f:65003**

(Marchuk, G. I.) *see* **Computational processes and systems, 89j:65009**

(McCormick, Stephen F.) *see* **Multigrid methods, 89c:65005**

(Meurant, Gérard A.) *see* **Symposium: Domain Decomposition Methods for Partial Differential Equations, 89f:65005**

(Miller, John J. H.) *see* **BAIL V, 89j:65008**

(Milovanović, Gradimir V.) *see* **Numerical methods and approximation theory, 89c:65007**

(Molchanov, I. N.) *see* **Optimization of computations, and numerical methods, 89c:65009**
(Moore, R. E.) *see* **Reliability in computing, 89j:65011**
(Newsam, G. N.) *see* **Special program on inverse problems, 89m:65008**
(Owen, D. R. J.) *see* **Reliability of methods for engineering analysis, 89c:65010**
(Périaux, Jacques) *see* **Symposium: Domain Decomposition Methods for Partial Differential Equations, 89f:65005** *and* **Domain decomposition methods, 89j:65010**
(te Riele, H. J. J.) *see* **Algorithms and applications on vector and parallel computers, 89f:65002**
(Roos, H.-G.) *see* **Discretization in differential equations and enclosures, 89a:65005**
(Rózsa, P.) *see* **Numerical methods, 89b:65012**
(Shi, Zhong Ci) *see* **BAIL V, 89j:65008**
(Spalviņš, A.) *see* **Computer technology and boundary value problems. Methods and specialized hardware and software, 89c:65003**
(Stein, Erwin) *see* **Finite element and boundary element techniques from mathematical and engineering point of view, 89m:65006**
(Vignes, J.) *see* **Stochastic methods in round-off error analysis,** (Not in MR)
(Voevodin, V. V.) *see* **Computer architecture and numerical methods, 89m:65005**
(Voigt, R. G.) *see* **Finite elements, 89e:65002**
(van der Vorst, Henk A.) *see* **Algorithms and applications on vector and parallel computers, 89f:65002**
(Watson, G. A.) *see* **Numerical analysis 1987, 89b:65011**
(Wendland, W.) *see* **Finite element and boundary element techniques from mathematical and engineering point of view, 89m:65006**
(Whiteman, J. R.) *see* **Mathematics of finite elements and applications, 89c:65004**
(Widlund, Olof B.) *see* **Domain decomposition methods, 89j:65010**
(Wouk, Arthur) *see* **New computing environments: microcomputers in large-scale computing, 89f:65004**

Items listed otherwise than by author

Advanced boundary element methods ★ Advanced boundary element methods. **89b:65009**
Algorithms and applications on vector and parallel computers ★ Algorithms and applications on vector and parallel computers. **89f:65002**
Amsterdam ★ Algorithms and applications on vector and parallel computers. **89f:65002**
BAIL V ★ BAIL V. **89j:65008**
Boundary elements ★ Boundary elements VII. Vol. I, II. **89f:65003**
Colloquia Mathematica Societatis János Bolyai ★ Numerical methods. **89b:65012**
Colloquium:
  Numerical Aspects of Vector and Parallel Processors ★ Algorithms and applications on vector and parallel computers. **89f:65002**
Como ★ Boundary elements VII. Vol. I, II. **89f:65003**
Computational processes and systems ★ Вычислительные процессы и системы. Вып. 6. (Russian) [Computational processes and systems. No. 6] **89j:65009**
Computer architecture and numerical methods ★ Архитектура ЭВМ и численные методы. (Russian) [Computer architecture and numerical methods] **89m:65005**
Computer technology and boundary value problems. Methods and specialized hardware and software ★ Вычислительная техника и краевые задачи. Методы и специализированные вычислительные средства. (Russian) [Computer technology and boundary value problems. Methods and specialized hardware and software] **89c:65003**
Conference:
  BAIL ★ BAIL V. **89j:65008**
  Boundary and Interior Layers—Computational and Asymptotic Methods ★ BAIL V. **89j:65008**
  Boundary Elements ★ Boundary elements VII. Vol. I, II. **89f:65003**
  Mathematics of Finite Elements and Applications ★ The mathematics of finite elements and applications. VI. **89c:65004**
  Multigrid Methods ★ Multigrid methods. **89c:65005**
  Numerical Analysis ★ Numerical analysis 1987. **89b:65011**
  Numerical Methods ★ Numerical methods. **89b:65012**
  Numerical Methods and Approximation Theory ★ Numerical methods and approximation theory. III. **89c:65007**
  Reliability of Methods for Engineering Analysis ★ Reliability of methods for engineering analysis. **89c:65010**
Copper Mountain, CO ★ Multigrid methods. **89c:65005**
Discretization in differential equations and enclosures ★ Discretization in differential equations and enclosures. **89a:65005**
Domain decomposition methods ★ Domain decomposition methods. **89j:65010**
Dundee ★ Numerical analysis 1987. **89b:65011**
Finite element and boundary element techniques from mathematical and engineering point of view ★ Finite element and boundary element techniques from mathematical and engineering point of view. **89m:65006**
Finite elements ★ Finite elements. **89e:65002**
Fundamental numerical algorithms and their software ★ Suchi keisan kihon arugorizumu to sono sofutouea no kenkyu. (Japanese) [Fundamental numerical algorithms and their software] **89e:65003**
Geometric modeling ★ Geometric modeling. **89b:65010**
Hampton, VA ★ Finite elements. **89e:65002**
Iterative methods for the solution of linear systems ★ Iterative methods for the solution of linear systems. (Not in MR)
IUTAM Symposium:
  Advanced Boundary Element Methods ★ Advanced boundary element methods. **89b:65009**
Kiel ★ Robust multi-grid methods. **89m:65007**
Los Angeles, CA ★ Domain decomposition methods. **89j:65010**
Mathematics of finite elements and applications ★ The mathematics of finite elements and applications. VI. **89c:65004**
Miskolc ★ Numerical methods. **89b:65012**
Multigrid methods ★ Multigrid methods. **89c:65005**
New computing environments: microcomputers in large-scale computing ★ New computing environments: microcomputers in large-scale computing. **89f:65004**
Newark, DE ★ New computing environments: microcomputers in large-scale computing. **89f:65004**
Niš ★ Numerical methods and approximation theory. III. **89c:65007**
Numerical analysis 1987 ★ Numerical analysis 1987. **89b:65011**
Numerical formula handling and its application to mathematical research ★ Su shiki shori to sugaku kenkyu e no oyo. (Japanese) [Numerical formula handling and its application to mathematical research] **89c:65006**
Numerical methods ★ Numerical methods. **89b:65012**
Numerical methods and approximation theory ★ Numerical methods and approximation theory. III. **89c:65007**
Numerical solution of ordinary differential equations ★ Sho bibun hoteishiki no suchi kaiho. (Japanese) [Numerical solution of ordinary differential equations] **89c:65008**
Optimal computation methods and their application ★ Оптимальные методы вычислений и их применение. Вып. 7. (Russian) [Optimal computation methods and their application. No. 7] **89g:65006**
Optimization of computations, and numerical methods ★ Оптимизация вычислений и численные методы. (Russian) [Optimization of computations, and numerical methods] **89c:65009**
Paris ★ First International Symposium on Domain Decomposition Methods for Partial Differential Equations. **89f:65005**
Recent theoretical results in numerical ordinary differential equations ★ Recent theoretical results in numerical ordinary differential equations. (Not in MR)
Reliability in computing ★ Reliability in computing. **89j:65011**
Reliability of methods for engineering analysis ★ Reliability of methods for engineering analysis. **89c:65010**
Robust multi-grid methods ★ Robust multi-grid methods. **89m:65007**
San Antonio, Tex. ★ Advanced boundary element methods. **89b:65009**
Seminar:
  Robust Multi-Grid Methods ★ Robust multi-grid methods. **89m:65007**
Shanghai ★ BAIL V. **89j:65008**
Special issue:
  Iterative methods for the solution of linear systems ★ Iterative methods for the solution of linear systems. (Not in MR)
  Recent theoretical results in numerical ordinary differential equations ★ Recent theoretical results in numerical ordinary differential equations. (Not in MR)
  Stochastic methods in round-off error analysis ★ Stochastic methods in round-off error analysis. (Not in MR)
Special program on inverse problems ★ Special program on inverse problems. **89m:65008**
Stochastic methods in round-off error analysis ★ Stochastic methods in round-off error analysis. (Not in MR)
Swansea ★ Reliability of methods for engineering analysis. **89c:65010**
Symposium:
  Domain Decomposition Methods ★ Domain decomposition methods. **89j:65010**
  Domain Decomposition Methods for Partial Differential Equations ★ First International Symposium on Domain Decomposition Methods for Partial Differential Equations. **89f:65005**
  Fundamental Numerical Algorithms and their Software ★ Suchi keisan kihon arugorizumu to sono sofutouea no kenkyu. (Japanese) [Fundamental numerical algorithms and their software] **89e:65003**
  Numerical Formula Handling and its Application to Mathematical Research ★ Su shiki shori to sugaku kenkyu e no oyo. (Japanese) [Numerical formula handling and its application to mathematical research] **89c:65006**
  Numerical Solution of Ordinary Differential Equations ★ Sho bibun hoteishiki no suchi kaiho. (Japanese) [Numerical solution of ordinary differential equations] **89c:65008**
Uxbridge ★ The mathematics of finite elements and applications. VI. **89c:65004**
Weissig ★ Discretization in differential equations and enclosures. **89a:65005**
Workshop:
  Finite Element Theory and Application ★ Finite elements. **89e:65002**
  Microcomputers in Large-Scale Scientific Computing ★ New computing environments: microcomputers in large-scale computing. **89f:65004**
  Numerical Solution of Differential Equations with Emphasis to the Generation of Two-Sided Bounds ★ Discretization in differential equations and enclosures. **89a:65005**

Items with secondary classifications in 65–06

(Baines, M. J.) *see* **Numerical methods for fluid dynamics, 89j:76004**
(Ballmann, J.) *see* **Nonlinear hyperbolic equations—theory, computation methods, and applications, 89j:35007**
(Brebbia, Carlos Alberto) *see* **Boundary elements, 89e:00008; 89e:00009** *and* **89e:00010**
Cox, M. G. Advances in reliable numerical computation: a summary. **89h:65007**
Drs, L. Drie- und zweieckige Pflaster. [Three- and two-cornered tiles] **89b:65043b**
(Edwards, David G.) *see* **COMPSTAT, 89i:62004**
(Fletcher, C. A. J.) *see* **Computational techniques and applications: CTAC-87, 89b:00021** *and* **Computational fluid dynamics, 89c:76003**
(Hwang, Kai) *see* **Proceedings: Conference on Parallel Processing, 89b:68010**
(Jacobs, Steven M.) *see* **Proceedings: Conference on Parallel Processing, 89b:68010**
(Jeltsch, Rolf) *see* **Nonlinear hyperbolic equations—theory, computation methods, and applications, 89j:35007**
(Kuhn, Günther) *see* **Boundary elements, 89e:00008; 89e:00009** *and* **89e:00010**
(Mel′nikov, V. A.) *see* **Cybernetics and computer technology, 89j:68006**
(Mori, Masatake) *see* **Numerical quadrature, 89a:65041**
(Morton, K. W.) *see* **Numerical methods for fluid dynamics, 89j:76004**
(Noye, John) *see* **Computational techniques and applications: CTAC-87, 89b:00021**
(Piessens, R.) *see* **Numerical quadrature, 89a:65041**
(Prössdorf, S.) *see* **Seminar: Analysis, 89b:47002**
(Raun, N. E.) *see* **COMPSTAT, 89i:62004**
(Schultz, Martin) *see* **Numerical algorithms for modern parallel computer architectures, 89j:65093**
(Sergienko, I. V.) *see* **Design and development of program packages, 89c:00011**
(Silbermann, Bernd) *see* **Seminar: Analysis, 89b:47002**
(Swartzlander, Earl E.) *see* **Proceedings: Conference on Parallel Processing, 89b:68010**

(Truhlar, Donald G.) *see* **Mathematical frontiers in computational chemical physics, 89f:81004**
(de Vahl Davis, Graham) *see* **Computational fluid dynamics, 89c:76003**
(Wendland, W.) *see* **Boundary elements, 89e:00008; 89e:00009** *and* **89e:00010**

Items listed otherwise than by author

Aachen ★ Nonlinear hyperbolic equations—theory, computation methods, and applications. **89j:35007**
Berlin ★ Seminar analysis. **89b:47002**
Boundary elements ★ Boundary elements IX. Vol. 1. **89e:00008**
— ★ Boundary elements IX. Vol. 2. **89e:00009**
— ★ Boundary elements IX. Vol. 3. **89e:00010**
COMPSTAT ★ COMPSTAT 1988. **89i:62004**
Computational fluid dynamics ★ Computational fluid dynamics. **89c:76003**
Computational techniques and applications: CTAC-87 ★ Computational techniques and applications: CTAC-87. **89b:00021**
Computer geometry ★ Computergeometrie. (German) [Computer geometry] **89b:65043a**
Computergeometrie ★ Computergeometrie. (German) [Computer geometry] **89b:65043a**
Conference:
  Boundary Elements ★ Boundary elements IX. Vol. 1. **89e:00008**
  — ★ Boundary elements IX. Vol. 2. **89e:00009**
  — ★ Boundary elements IX. Vol. 3. **89e:00010**
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Copenhagen ★ COMPSTAT 1988. **89i:62004**
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Minneapolis, MN ★ Mathematical frontiers in computational chemical physics. **89f:81004**
— ★ Numerical algorithms for modern parallel computer architectures. **89j:65093**
Nonlinear hyperbolic equations—theory, computation methods, and applications ★ Nonlinear hyperbolic equations—theory, computation methods, and applications. **89j:35007**
Numerical algorithms for modern parallel computer architectures ★ Numerical algorithms for modern parallel computer architectures. **89j:65093**
Numerical methods for fluid dynamics ★ Numerical methods for fluid dynamics. III. **89j:76004**
Numerical quadrature ★ Numerical quadrature. **89a:65041**
Oxford ★ Numerical methods for fluid dynamics. III. **89j:76004**
Proceedings:
  Conference on Parallel Processing ★ Proceedings of the 1986 International Conference on Parallel Processing. **89b:68010**
Seminar:
  Analysis ★ Seminar analysis. **89b:47002**
Stuttgart ★ Boundary elements IX. Vol. 1. **89e:00008**
— ★ Boundary elements IX. Vol. 2. **89e:00009**
— ★ Boundary elements IX. Vol. 3. **89e:00010**
Sydney ★ Computational techniques and applications: CTAC-87. **89b:00021**
— ★ Computational fluid dynamics. **89c:76003**
Symposium:
  Computational Fluid Dynamics ★ Computational fluid dynamics. **89c:76003**
  Computational Statistics ★ COMPSTAT 1988. **89i:62004**
  Computer geometry ★ Computergeometrie. (German) [Computer geometry] **89b:65043a**
Workshop:
  Atomic and Molecular Structure and Dynamics ★ Mathematical frontiers in computational chemical physics. **89f:81004**
  Numerical Algorithms for Modern Parallel Computer Architectures ★ Numerical algorithms for modern parallel computer architectures. **89j:65093**

65A05 Tables

Carlson, B. C. A table of elliptic integrals of the second kind. **89b:65013**
— A table of elliptic integrals: cubic cases. **89m:65009**

Items with secondary classifications in 65A05

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65Bxx Acceleration of convergence

(Brezinski, Claude) *see* **Delahaye, Jean-Paul, 89i:65003**
Delahaye, Jean-Paul ★ Sequence transformations. **89i:65003**
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65B05 Extrapolation to the limit, deferred corrections

El Djalil Kateb, Mohamed Itérations d'algorithmes d'accélération de la convergence. (English summary) [Iterations of algorithms for the acceleration of convergence] **89g:65007**
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— *see also* **Smith, David Alexander; et al., 89j:65013a** *and* **89j:65013b**
Guerrero Casas, Flor Ma. (*with* López-Carmona, Antonio) Error bounds in a convergence acceleration process. (Spanish. English summary) **89h:65009**
Lembarki, Alami Convergence acceleration of limit k-periodic continued fractions. **89j:65012**
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65B10 Summation of series

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Bohman, Jan (*with* Fröberg, Carl-Erik) The Stieltjes function—definition and properties. **89i:11095**
Fröberg, Carl-Erik *see* **Bohman, Jan, 89i:11095**
Scraton, R. E. A comparison of some Taylor and Chebyshev series. **89e:41036**

65B15 Euler-Maclaurin formula

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65B99 None of the above, but in this section

Jacobsen, Lisa (*with* Waadeland, Haakon) Convergence acceleration of limit periodic continued fractions under asymptotic side conditions. **89h:65010**
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Sabel′fel′d, K. K. *see* **Zítko, Jan, 89g:65008**
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65Cxx Numerical simulation {For theoretical aspects, see 68U20.}

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65C05 Monte Carlo methods

Burn, K. *see* **Dubi, A.; et al., 89a:65008**
Calzolari, Antonella (*with* Costantini, Cristina; Marchetti, Federico) A confidence interval for Monte Carlo methods with an application to simulation of obliquely reflecting Brownian motion. **89h:65011**
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Marchetti, Federico *see* **Calzolari, Antonella; et al., 89h:65011**
Markovich, N. I. *see* **Levitan, Yu. L.; et al., 89g:65009**
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Mikhaĭlov, G. A. ★ Методы Монте-Карло для решения задач со случайными параметрами. (Russian) [Monte Carlo methods for solving problems with random parameters] **89h:65013**
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Shalimova, I. A. *see* **Sabel′fel′d, K. K., 89h:35027**
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Topuzoğlu, Alev *see* **Eichenauer, Jürgen; et al., 89i:65007**
Ueda, Akira[2] *see* **Kadowaki, Shinji, 89b:82006**
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Shandrikova, E. *see* **Ososkov, G. A.; et al., 89b:65023**
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Van Cutsem, Bernard Simulation des lois de probabilité. (English summary) [Simulation of probability densities] **89m:65011**
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65C20 Models, numerical methods

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Sabel′fel′d, K. K. (*with* Tatarskiĭ, V. I.) ★ О решении стохастических дифракционных задач методом статистического моделирования. (Russian) [The solution of stochastic diffraction problems by a method of statistical modeling] **89b:65026**

Tatarskiĭ, V. I. *see* **Sabel′fel′d, K. K., 89b:65026**

Yaroshchuk, I. O. A method for the numerical modeling of waves in one-dimensional nonlinear media with random inhomogeneities. (Russian) (Not in MR)

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Boon, J.-P. *see* **d'Humières, D.; et al., 89j:76016**

Boyarsky, A. *see* **Góra, P., 89m:58107**

Chopard, Bastien (*with* Droz, Michel) Cellular automata model for heat conduction in a fluid. **89a:80002**

Dab, D. *see* **d'Humières, D.; et al., 89j:76016**

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Durran, Richard (*with* Truman, Aubrey) Brownian motion on hypersurfaces and computer simulation. **89j:60114**

Dymnikov, V. P. *see* **Marchuk, G. I.; et al., 89f:86001**

Góra, P. (*with* Boyarsky, A.) Why computers like Lebesgue measure. **89m:58107**

Grikh, Z. A. Statistical modeling of isotropic random fields on a sphere. (Russian) **89e:60104**

Homma, Shigeo *see* **Matsuda, Hirotsugu; et al., 89m:81004**

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Koçak, H. ★ Differential and difference equations through computer experiments. **89k:58003**

Kozachenko, Yu. V. *see* **Zelepugina, I. N., 89i:60083**

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Marchuk, G. I. (*with* Dymnikov, V. P.; Zalesnyĭ, V. B.) ★ Математические модели в геофизической гидродинамике и численные методы их реализации. (Russian) [Mathematical models in geophysical hydrodynamics and numerical methods for their realization] **89f:86001**

Marčiulaitis, Saulius Summation of real numbers in arithmetic with a floating point. A probability approach to determining the variance of absolute round-off error. (Russian. English and Lithuanian summaries) **89k:65056**

Matsuda, Hirotsugu (*with* Ishii, Kazushige; Homma, Shigeo; Ogita, Naofumi) Theoretical basis of the decoupled cell Monte Carlo simulation for quantum systems. **89m:81004**

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Ogita, Naofumi *see* **Matsuda, Hirotsugu; et al., 89m:81004**

Peng, Rong *see* **Rao, Bhaskar D., 89f:94002**

Pokhodzeĭ, B. B. Modeling of truncated distributions. **89d:65004**

Rao, Bhaskar D. (*with* Peng, Rong) Tracking characteristics of the constrained IIR adaptive notch filter. **89f:94002**

Sydykov, G. M. On the rate of convergence of the method of spherical harmonics in multizone domains (plane geometry). (Russian) **89f:65110**

Truman, Aubrey *see* **Durran, Richard, 89j:60114**

Volkov, V. M. A method for numerical modeling of the nonlinear self-action of spiral optic beams. (Russian) **89k:78002**

Wu, Hua Mo (*with* Wu, Yu Hua^2) Contour dynamics methods for discontinuous vortical flows. **89a:76022**

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Zelepugina, I. N. (*with* Kozachenko, Yu. V.) Estimates for the accuracy of the modeling of random fields in the spaces L_p, $p > 1$. (Russian) **89i:60083**

Zin′kovskaya, T. V. (*with* Zmievskaya, G. I.) A numerical stochastic model for the formation of clusters. (Russian) **89k:82035**

Zmievskaya, G. I. *see* **Zin′kovskaya, T. V., 89k:82035**

65C99 None of the above, but in this section

Items with secondary classifications in 65C99

Feuer, Arie *see* **Tarrab, Moshe, 89j:93148**

Nusse, Helena E. (*with* Yorke, James A.) Is every approximate trajectory of some process near an exact trajectory of a nearby process? **89g:58108**

Tarrab, Moshe (*with* Feuer, Arie) Convergence and performance analysis of the normalized LMS algorithm with uncorrelated Gaussian data. **89j:93148**

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Zhdanov, A. I. Solution of ill-posed stochastic linear algebraic equations by the regularized maximum likelihood method. (Russian) **89k:65055**

Zheng, Xiao Jun^2 (*with* Yang, Shu Zi) A classification of autoregressive spectral estimation algorithms and its application. (Chinese. English summary) **89j:62133**

65Dxx Numerical approximation {Primarily algorithms; for theory, see 41–XX.}

Brass, Helmut (*with* Förster, Klaus-Jürgen) On the estimation of linear functionals. **89e:65009**

Brudnyĭ, Yu. A. (*with* Irodova, I. P.) ★ Прикладная теория приближения. (Russian) [Applied approximation theory] **89a:65013**

Förster, Klaus-Jürgen *see* **Brass, Helmut, 89e:65009**

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Subbotin, Yu. N. Numerical methods for the approximation of functions and mathematical experiments. (Russian) **89b:65027**

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Dickmeis, W. (*with* Nessel, R. J.; van Wickeren, E.) Quantitative extensions of the uniform boundedness principle. **89h:41001**

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Rasputin, G. G. Polynomial ideals and some problems of computational methods. (Russian) **89j:65044**

van Wickeren, E. *see* **Dickmeis, W.; et al., 89h:41001**

65D05 Interpolation

Akamatsu, Norio (*with* Sakou, Nobuaki; Craigin, Robert) Fast direct interpolation for computer graphics applications. **89b:65028**

Andersson, Lars-Erik (*with* Elfving, Tommy) An algorithm for constrained interpolation. **89f:65012**

Barnhill, Robert E. (*with* Piper, B.; Rescorla, Kim L.) Interpolation to arbitrary data on a surface. (*see* **89b:65010**)

Berrut, J.-P. Rational functions for guaranteed and experimentally well-conditioned global interpolation. **89b:65029**

Boehm, Wolfgang On de Boor-like algorithms and blossoming. **89b:65030**

Brutman, L. Generalized alternating polynomials, some properties and numerical applications. **89h:65021**

Costantini, Paolo Co-monotone interpolating splines of arbitrary degree—a local approach. **89a:65014**

Craigin, Robert *see* **Akamatsu, Norio; et al., 89b:65028**

Cuyt, Annie A. M. A multivariate qd-like algorithm. **89c:65013**

Edelman, Alan (*with* Micchelli, Charles A.) Admissible slopes for monotone and convex interpolation. **89b:65031**

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Fiorot, Jean-Charles (*with* Tabka, Jalel) Splines d'interpolation polynomiales de degré 3 de classe C^2 conservant la forme. (English summary) [Shape-preserving C^2 cubic polynomial interpolating splines of degree 3] **89f:65013**

Grandine, Thomas A. An iterative method for computing multivariate C^1 piecewise polynomial interpolants. **89e:65010**

Halabi, Yahia S. Finite-difference scheme for simulating the two-dimensional dispersion problem in natural channels. (Arabic summary) **89b:65032**

Hegedűs, Csaba J. Newton's recursive interpolation in $\mathbf{R}^n$. **89d:65007**

Huang, You Du *see* **Su, Jia Duo, 89g:65012**

Irvine, Larry D. (*with* Marin, Samuel P.; Smith, Philip W.) Constrained interpolation and smoothing. **89d:65008**

Jiang, Shou Shan (*with* Yang, Peng Ji) C^1 rational interpolating surface under local coordinate systems. **89a:65015**

Jones, Alan K. Shape control of curves and surfaces through constrained optimization. (*see* **89b:65010**)
Marin, Samuel P. *see* **Irvine, Larry D.; et al., 89d:65008**
Meier, Hans (*with* Nowacki, Horst) Interpolating curves with gradual changes in curvature. **89e:65011**
Micchelli, Charles A. *see* **Edelman, Alan, 89b:65031**
Mitáš, L. (*with* Mitášová, H.) General variational approach to the interpolation problem. (Not in MR)
Mitášová, H. *see* **Mitáš, L.**, (Not in MR)
Mühlbach, G. Linear and quasilinear extrapolation algorithms. **89c:65014**
Nowacki, Horst *see* **Meier, Hans, 89e:65011**
Petersen, Carl S. (*with* Piper, B.; Worsey, A. J.) Adaptive contouring of a trivariate interpolant. (*see* **89b:65010**)
Piper, B. *see* **Worsey, A. J., 89m:65012; Barnhill, Robert E.; et al.**, (**89b:65010**) *and* **Petersen, Carl S.; et al.**, (**89b:65010**)
Renka, Robert J. Multivariate interpolation of large sets of scattered data. **89d:65009**
Rescorla, Kim L. *see* **Barnhill, Robert E.; et al.**, (**89b:65010**)
Said, H. B. C^1 interpolation on a polygon. **89i:65009**
Sakou, Nobuaki *see* **Akamatsu, Norio; et al., 89b:65028**
Sato, Makoto Recursive interpolation. (*see* **89g:82013**)
Siganevich, G. L. The best error estimate for linear interpolation on a triangle of functions in $W_2^2(T)$. **89h:65022**
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Su, Jia Duo (*with* Huang, You Du) A new algorithm for osculatory rational interpolation. (Chinese. English summary) **89g:65012**
Sun, Yu Shan (*with* Xiang, Xin Min) Some interpolation inequalities for intermediate difference quotients of discrete functions. (Chinese) **89b:65033**
Tabka, Jalel *see* **Fiorot, Jean-Charles, 89f:65013**
Worsey, A. J. (*with* Piper, B.) A trivariate Powell-Sabin interpolant. **89m:65012**
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Xiang, Xin Min *see* **Sun, Yu Shan, 89b:65033**
Xie, Ting Fan The studies on Hermite interpolating approximation in the last three years. (Chinese. English summary) **89a:65016**
Xu, Guo Liang A generalization of the QD algorithm for rational Hermite interpolation. (Chinese. English summary) **89i:65010**
Yang, Chang Lan A new boundary interpolation formula with high algebraic accuracy for regions bounded by curved triangles. (Chinese. English summary) **89m:65013**
Yang, Peng Ji *see* **Jiang, Shou Shan, 89a:65015**

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Azar'eva, S. V. *see* **Kovalenko, A. N., 89i:41009**
Berg, Lothar Interpolation and approximation by completely monotonous polynomials. **89k:41002**
Broomhead, D. S. (*with* Lowe, David) Multivariable functional interpolation and adaptive networks. (Not in MR)
Castellanos Noda, Longina The safeguarded cubic interpolation method for computing a point satisfying the Wolfe conditions. (Spanish. English summary) **89d:90182**
Chebotarëv, A. M. The fast Fourier transform in a problem with multiple nodes. (Russian) **89b:65324**
Chen, Tian Ping The residual term of Chebyshev interpolation and its application to T-splines. (Chinese) **89h:41004**
Coman, G. *see* **Gânscă, I.**, (Not in MR)
Cuyt, Annie A. M. (*with* Jacobsen, Lisa; Verdonk, Brigitte M.) Instability and modification of Thiele interpolating continued fractions. **89e:41019**
Dikshit, H. P. (*with* Rana, S. S.) Discrete cubic spline interpolation over a nonuniform mesh. **89b:41018**
Dougherty, Randall L. (*with* Edelman, Alan; Hyman, James M.) Nonnegativity-, monotonicity-, or convexity-preserving cubic and quintic Hermite interpolation. **89i:41006**
Edelman, Alan *see* **Dougherty, Randall L.; et al., 89i:41006**
Freeden, Willi Harmonic splines for solving boundary value problems of potential theory. **89c:65130**
Gânscă, I. (*with* Coman, G.) On blending interpolation and cubature formulas. (Romanian. English summary) (Not in MR)
Gao, Jun Bin Multivariate quasi-Newton interpolation. (Chinese. English summary) **89k:41004**
Gasca, M. (*with* Martínez, José Javier) On the computation of multivariate confluent Vandermonde determinants and its applications. **89a:65069**
Güntner, R. On asymptotics for the uniform norms of the Lagrange interpolation polynomials corresponding to extended Chebyshev nodes. **89e:41005**
He, Jia Xing On (0, 1) Hermite interpolation. (Chinese. English summary) (Not in MR)
Hyman, James M. *see* **Dougherty, Randall L.; et al., 89i:41006**
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Jerri, Abdul J. An extended Poisson type sum formula for general transforms and aliasing error bound for the generalized sampling theorem. **89d:44001**
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Lepschy, Antonio (*with* Mian, Gian Antonio; Viaro, Umberto) Computational aspects of rational interpolation. (Italian summary) **89e:41006**
Levin, David Multidimensional reconstruction by set-valued approximations. **89h:65029**
Lorente, J. (*with* Ramírez, V.) On interpolation systems and H-reducible interpolation problems. **89c:41003**
Lowe, David *see* **Broomhead, D. S.**, (Not in MR)
Maligranda, Lech Interpolation spaces in the theory of approximation. **89a:41042**
Martínez, José Javier *see* **Gasca, M., 89a:65069**
le Méhauté, Alain J. Y. Unisolvent interpolation in $\mathbf{R}^n$ and the simplicial polynomial finite element method. **89d:41004**
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Myrzanov, Zh. E. Mixed Hermite interpolation and related cubature formulas. (Russian) **89b:65062**
Nielson, Gregory M. A transfinite, visually continuous, triangular interpolant. (*see* **89b:65010**)
Phillips, G. M. *see* **Lee, Seng Luan, 89c:41002**
Powell, M. J. D. Radial basis functions for multivariable interpolation: a review. **89b:41006**
Price, Thomas E. Pointwise error estimates for interpolation. **89c:41004**
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Rana, S. S. *see* **Dikshit, H. P., 89b:41018**
Sun, Xie Hua On modified Hermite-Fejér interpolation omitting derivatives. **89d:41007**
— A note on mean convergence of Lagrange interpolation. (Chinese) **89d:41008**
Tartar, L. Sur un lemme d'équivalence utilisé en analyse numérique. (English summary) [An equivalence lemma used in numerical analysis] **89k:65061**
Verdonk, Brigitte M. *see* **Cuyt, Annie A. M.; et al., 89e:41019**
Viaro, Umberto *see* **Lepschy, Antonio; et al., 89e:41006**
Wang, Jin Xian On lacunary interpolation splines of class C^k. (Chinese) **89b:41022**
Yang, Zai Zhong The schemes of interpolation to the boundary values on a 3-dimensional simplex and a rectangular parallelepiped for the spatial pattern of populations in communities. (Chinese. English summary) **89a:92052**
Ye, Zai Fei Optimal error bounds for derivatives of Hermite-Birkhoff interpolation polynomials. (Chinese. English summary) **89h:41011**
Yuan, Chao Ting The principle of interpolation in numerical control—feeding at the minimum error. **89m:00021**
Zhou, Xin Long Saturation for some Hermite-Fejér interpolation polynomials. (Chinese) **89b:41030**

65D07 Splines

Andreev, Andreĭ St. *see* **Zhidkov, E. P.; et al., 89e:65015**
Ataev, A. È. (*with* Kovalkov, A. V.) ★ Эрмитовы сплайны при ограничениях типа неравенств. (Russian) [Hermitian splines with constraints of inequality type] **89d:65010**
Behforooz, G. End conditions for cubic spline interpolation derived from integration. **89k:65010**
de Boor, Carl (*with* Höllig, Klaus) B-splines without divided differences. (*see* **89b:65010**)
Chui, C. K. (*with* Lai, Mingjun) Computation of box splines and B-splines on triangulations of nonuniform rectangular partitions. **89e:65012**
— (*with* Diamond, Harvey; Raphael, Louise) Convexity-preserving quasi-interpolation and interpolation by box spline surfaces. **89c:65015**
Cox, M. G. Data approximation by splines in one and two independent variables. **89a:65017**
Dahmen, Wolfgang (*with* Goodman, T. N. T.; Micchelli, Charles A.) Compactly supported fundamental functions for spline interpolation. **89i:65011**
Diamond, Harvey *see* **Chui, C. K.; et al., 89c:65015**
Dietze, Siegfried (*with* Schmidt, Jochen W.) Determination of shape preserving spline interpolants with minimal curvature via dual programs. **89g:65013**
Foley, Thomas A. A shape-preserving interpolant with tension controls. **89g:65014**
Franke, Richard *see* **McMahon, John R., 89d:65012**
Fritsch, Frederick N. Energy comparisons of Wilson-Fowler splines with other interpolating splines. (*see* **89b:65010**)
— Representations for parametric cubic splines. **89k:65011**
Gao, Jun Bin (*with* Xu, Li Zhi) On a problem of $S_3^1(\Delta_{mn}^{(1)})$ spline interpolation. I. (Chinese. English summary) **89j:65014**
Geise, G. Transzendente Splines. [Transcendental splines] (*see* **89b:65043a**)
Gmelig Meyling, R. H. J. On algorithms and applications for bivariate B-splines. **89e:65013**
— An algorithm for constructing configurations of knots for bivariate B-splines. **89d:65011**
Gonska, Heinz H. (*with* Röth, Andreas) Control point insertion for B-spline curves. **89k:65012**
Goodman, T. N. T. *see* **Dahmen, Wolfgang; et al., 89i:65011**
Grandine, Thomas A. The stable evaluation of multivariate simplex splines. **89a:65018**
Gregory, John (*with* Zeman, Marvin) Spline matrices and their applications to some higher order methods for boundary value problems. **89c:65016**
Han, Guo Qiang Asymptotic expressions and superconvergence for odd degree periodic spline interpolation. (Chinese. English summary) **89f:65014**
Hess, Walter Paul *see* **Schmidt, Jochen W., 89b:65034** *and* **89e:65014**
Höllig, Klaus Algorithms for rational spline curves. **89c:65017**
— *see also* **de Boor, Carl**, (**89b:65010**)
Hoschek, Josef Spline approximation of offset curves. **89c:65018**
Ismagulov, M. R. Sharp estimates for the approximation of continuous periodic functions by regular splines. (Russian) **89a:65019**
Jensen, Thomas Assembling triangular and rectangular patches and multivariate splines. (*see* **89b:65010**)
Joshi, T. C. *see* **Saxena, R. B., 89m:65015**
Kaklis, P. D. *see* **Sapidis, N. S., 89f:65015**
Katagishi, Kazuki *see* **Toraichi, Kazuo; et al., 89a:65021**
Kobkov, V. V. Monotone and convex quadratic splines with supplementary nodes. (Russian) **89i:65012**
Kovalkov, A. V. *see* **Ataev, A. È., 89d:65010**
Lai, Mingjun *see* **Chui, C. K., 89e:65012**
Lau, K. H. Conditions for avoiding loss of geometric continuity on spline curves. **89j:65015**
Lyche, Tom (*with* Mørken, Knut) Knot removal for parametric B-spline curves and surfaces. **89m:65014**
McMahon, John R. (*with* Franke, Richard) Knot selection for least squares approximation using thin plate splines. **89d:65012**
Micchelli, Charles A. *see* **Dahmen, Wolfgang; et al., 89i:65011**
Mori, Ryoichi *see* **Toraichi, Kazuo; et al., 89a:65021**
Mørken, Knut *see* **Lyche, Tom, 89m:65014**
Ong, Hoon Liong Construction of triangular linear spline interpolation error functions with application to finite element error analysis. **89c:65019**

Osborne, M. R. (*with* Prvan, Tania) Smoothness and conditioning in generalised smoothing spline calculations. **89h:65023**
Papamichael, N. (*with* Soares, Maria Joana) A posteriori corrections for nonperiodic cubic and quintic interpolating splines at equally spaced knots. **89h:65024**
Popov, Vasil Atanasov *see* **Zhidkov, E. P.; et al., 89e:65015**
Prautzsch, Hartmut The location of the control points in the case of box splines. **89k:65013**
Prvan, Tania *see* **Osborne, M. R., 89h:65023**
Raphael, Louise *see* **Chui, C. K.; et al., 89c:65015**
Rõth, Andreas *see* **Gonska, Heinz H., 89k:65012**
Sakai, Manabu (*with* Usmani, Riaz A.) A shape preserving area true approximation of histogram by rational splines. **89d:65013**
Sapidis, N. S. (*with* Kaklis, P. D.) An algorithm for constructing convexity- and monotonicity-preserving splines in tension. **89f:65015**
Saxena, R. B. (*with* Joshi, T. C.) Lacunary interpolation by even degree polynomial splines. **89m:65015**
Schmidt, Jochen W. Bestimmung minimal gekrümmter Splines mit Hilfe dualer Aufgaben. [Determination of minimally curved splines with the help of dual problems] **89a:65020**
— (*with* Hess, Walter Paul) Positive interpolation with rational quadratic splines. (German summary) **89b:65034**
— (*with* Hess, Walter Paul) Positivity of cubic polynomials on intervals and positive spline interpolation. **89e:65014**
— *see also* **Dietze, Siegfried, 89g:65013**
Seidel, Hans-Peter Knot insertion from a blossoming point of view. **89c:65020**
Sekita, Iwao *see* **Toraichi, Kazuo; et al., 89a:65021**
Shadrin, A. Yu. Precise estimates for uniform approximation of classes $\tilde{W}_2^2$ and W_2^2 by interpolating cubic splines. **89h:65025**
Shumilov, B. M. Local methods for supplementing and compressing information by bicubic splines. (Russian) (Not in MR)
— Local interpolation on a uniform triangular grid by splines of the fourth degree of smoothness C^1. **89k:65014**
Soares, Maria Joana *see* **Papamichael, N., 89h:65024**
Toraichi, Kazuo (*with* Katagishi, Kazuki; Sekita, Iwao; Mori, Ryoichi) Computational complexity of spline interpolation. **89a:65021**
Usmani, Riaz A. *see* **Sakai, Manabu, 89d:65013**
Wang, Xiang Shape-preserving approximation by spline functions. **89b:65035**
Weng, Zu Yin Construction of multivariate B-splines with multiple nodes. (Chinese) **89h:65026**
Xu, Li Zhi *see* **Gao, Jun Bin, 89j:65014**
Yugaĭ, S. A. Guaranteed two-sided approximation of real functions by linear splines on a computer. (Russian) **89b:65036**
Zeman, Marvin *see* **Gregory, John, 89c:65016**
Zheludev, V. A. Local spline approximation on a uniform grid. (Russian) **89f:65016a**
— Correction: "Local spline approximation on a uniform grid". (Russian) **89f:65016b**
Zhidkov, E. P. (*with* Andreev, Andreĭ St.; Popov, Vasil Atanasov) The Gibbs effect for spline interpolation and for the numerical solution of integral equations by the spline-collocation method. (Russian) **89e:65015**

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Alfeld, Peter (*with* Piper, B.; Schumaker, L. L.) Spaces of bivariate splines on triangulations with holes. **89h:41018**
Andersson, Lars-Erik (*with* Elfving, Tommy) An algorithm for constrained interpolation. **89f:65012**
Apprato, D. *see* **López de Silanes, M. C., 89g:41009**
Asmuss, S. V. An error estimate for spline interpolation. (Russian) **89c:65066**
Barry, Phillip J. (*with* Goldman, Ronald N.) A recursive proof of a B-spline identity for degree elevation. **89h:41020**
Barsky, Brian A. *see* **Bartels, Richard H.; et al., 89f:65018**
Bartels, Richard H. (*with* Beatty, John C.; Barsky, Brian A.) ★ An introduction to splines for use in computer graphics and geometric modeling. **89f:65018**
Beatty, John C. *see* **Bartels, Richard H.; et al., 89f:65018**
Behforooz, G. Another approach to the quintic spline. **89j:41012**
Bezhaev, A. Yu. (*with* Vasilenko, V. A.) Splines in Hilbert spaces and their finite-element approximations. **89b:41016**
(Bézier, Pierre) *see* **Bartels, Richard H.; et al., 89f:65018**
Billera, L. J. Homology of smooth splines: generic triangulations and a conjecture of Strang. **89k:41010**
de Boor, Carl (*with* Höllig, Klaus) Minimal support for bivariate splines. **89h:41022**
— (*with* Höllig, Klaus) Approximation power of smooth bivariate pp functions. **89h:41023**
Boyanov, Borislav D. σ-perfect splines and their application to optimal recovery problems. **89m:65018**
— B-splines with Birkhoff knots. **89c:41001**
Chen, Han Lin (*with* Hu, Ying Sheng) The bell-shaped property of the fundamental function for cardinal L-spline interpolation. **89h:41032**
Chen, Tian Ping An error estimate for H-B interpolation splines and its application. (Chinese. English summary) **89k:41011**
Chui, C. K. (*with* Lai, Mingjun) On multivariate vertex splines and applications. **89h:41024**
— (*with* He, Tian Xiao; Wang, Ren Hong) The C^2 quartic spline space on a four-directional mesh. **89i:41015**
— (*with* He, Tian Xiao) On minimal and quasiminimal supported bivariate splines. **89a:41007**
— (*with* Diamond, Harvey; Raphael, Louise) Interpolation by multivariate splines. **89j:41002**
Costantini, Paolo Co-monotone interpolating splines of arbitrary degree—a local approach. **89a:65014**
— An algorithm for computing shape-preserving interpolating splines of arbitrary degree. **89e:65165**
Dæhlen, Morten (*with* Lyche, Tom) Bivariate interpolation with quadratic box splines. **89e:41003**
Diamond, Harvey *see* **Chui, C. K.; et al., 89j:41002**
Dikshit, H. P. (*with* Rana, S. S.) Discrete cubic spline interpolation over a nonuniform mesh. **89b:41018**
Dubeau, François (*with* Savoie, Jean) On consistency relations for polynomial splines on a uniform partition. **89a:41009**
— (*with* Savoie, Jean) Splines périodiques avec partage uniforme de la droite réelle. [Periodic splines with uniform partitioning of the real line] **89c:41009**
Dyn, Nira (*with* Wong, Wing Hung) On the characterization of nonnegative volume-matching surface splines. **89a:41010**
Elfving, Tommy *see* **Andersson, Lars-Erik, 89f:65012**
Eubank, Randall L. Optimal grouping, spacing, stratification, and piecewise constant approximation. **89j:62052**
(Forrest, A. Robin) *see* **Bartels, Richard H.; et al., 89f:65018**
Fuchs, P. M. On the stability of spline-collocation methods of multivalue type. **89e:65071**
Goldman, Ronald N. *see* **Barry, Phillip J., 89h:41020**
Grandine, Thomas A. An iterative method for computing multivariate C^1 piecewise polynomial interpolants. **89e:65010**
Guo, Zhu Rui (*with* Sha, Zhen; Wu, Zheng Chang) On interpolation splines $S_k^1(\Delta_{mn}^{(i)})$. (Chinese) **89b:41019**
Gutknecht, Martin Attenuation factors in multivariate Fourier analysis. **89d:42022**
He, Tian Xiao *see* **Chui, C. K., 89a:41007** *and* **89i:41015**
Höllig, Klaus *see* **de Boor, Carl, 89h:41022** *and* **89h:41023**
Hoschek, Josef Algebraische Methoden zum Glätten und Schneiden von Splineflächen. [Algebraic methods for smoothing and intersecting of spline surfaces] **89f:65020**
Hu, Ying Sheng *see* **Chen, Han Lin, 89h:41032**
Huang, You Qian (*with* Xie, Zhi Yun) The best interpolation nodes of operator spline functions of order two. (Chinese. English summary) **89j:41014**
Iancu, C. (*with* Mustăţa, C.) Error estimation in the approximation of functions by interpolation cubic splines. **89f:41012**
Jetter, Kurt A short survey on cardinal interpolation by box splines. **89d:41025**
Jia, Rong Qing B-net representation of multivariate splines. **89i:41017**
Khizha, A. L. Approximation by local splines of functions of two variables on a special grid. (Russian) **89j:41016**
— Estimates for the stability of some methods for approximation by local splines. **89f:41014**
Kovalkov, A. V. The structure and characteristic properties of variational splines that satisfy constraints of inequality type. **89b:41020**
Kuboi, Fujio A simple method of generating spline curves under tension. (Not in MR)
Lai, Mingjun *see* **Chui, C. K., 89h:41024**
Lee, David^2 Fast multiplication of a recursive block Toeplitz matrix by a vector and its application. **89a:65071**
López de Silanes, M. C. (*with* Apprato, D.) Estimations de l'erreur d'approximation sur un domaine borné de $\mathbf{R}^n$ par D^m-splines d'interpolation et d'ajustement discrètes. (English summary) [Approximation error estimates on a bounded domain in $\mathbf{R}^n$ for interpolating and smoothing discrete D^m-splines] **89g:41009**
Lyche, Tom *see* **Dæhlen, Morten, 89e:41003**
Martins, M. Fátima Graça ★ Polynomial splines and best approximation. **89b:41021**
Meyer, Yves Ondelettes et fonctions splines. [Wavelets and spline functions] **89j:42020**
Miller, John J. (*with* Wegman, E. J.) Vector function estimation using splines. **89a:41012**
Morozov, V. A. ★ Регулярные методы решения некорректно поставленных задач. (Russian) [Regular methods for solving ill-posed problems] **89f:65063**
Mustăţa, C. *see* **Iancu, C., 89f:41012**
Oberle, Hans Joachim *see* **Opfer, G., 89a:41013**
Opfer, G. (*with* Oberle, Hans Joachim) The derivation of cubic splines with obstacles by methods of optimization and optimal control. **89a:41013**
Papamichael, N. (*with* Soares, Maria Joana) Cubic and quintic spline-on-spline interpolation. **89a:41014**
Pavlov, N. N. *see* **Vershinin, V. V.; et al., 89f:41019**
Pevnyĭ, A. B. Optimality of a spline algorithm for finding the maximum of a class of functions of several variables. **89e:90185**
Piah, Abd. Rahni Mt. Periodic spline interpolation operator. **89j:41007**
Piper, B. *see* **Alfeld, Peter; et al., 89h:41018**
Rana, S. S. *see* **Dikshit, H. P., 89b:41018**
Raphael, Louise *see* **Chui, C. K.; et al., 89j:41002**
Saunders, B. V. (*with* Smith, Philip W.) Grid generation and optimization using tensor product B-splines. **89c:65105**
Savoie, Jean *see* **Dubeau, François, 89a:41009** *and* **89c:41009**
Schumaker, L. L. Constructive aspects of spaces of bivariate piecewise polynomials. (*see* **89c:65004**)
— *see also* **Alfeld, Peter; et al., 89h:41018**
Sha, Zhen *see* **Guo, Zhu Rui; et al., 89b:41019**
Shabozov, M. Sh. The interpolation of functions by Hermitian parabolic splines. (Russian. Tajiki summary) **89a:41015**
Smith, Philip W. *see* **Saunders, B. V., 89c:65105**
Soares, Maria Joana *see* **Papamichael, N., 89a:41014**
Soh, B. C. Fourier series of B-splines. **89a:42013**
Sommer, Manfred (*with* Strauss, Hans) Weak Descartes systems in generalized spline spaces. **89e:41014**
Stoichev, L. I. A method for finding real zeros of a function using an interpolation spline. (Romanian summary) **89g:65067**
Strauss, Hans *see* **Sommer, Manfred, 89e:41014**
Swartz, Blair Conditioning collocation. **89b:65181**
Tang, Zheng Quan A method for computing the connecting points of piecewise Bézier spline curves and its application to the computer-aided geometric design of shapes of pieces of cloth. (Chinese. English summary) **89k:65018**
Utreras, Florencio I. Convergence rates for constrained spline functions. **89d:41029**
Vasilenko, V. A. *see* **Bezhaev, A. Yu., 89b:41016**
Vershinin, V. V. (*with* Zav′yalov, Yu. S.; Pavlov, N. N.) ★ Экстремальные свойства сплайнов и задача сглаживания. (Russian) [Extremal properties of splines and the smoothing problem] **89f:41019**
Wang, Hui *see* **Zhang, You Xun, 89b:41023**
Wang, Jian Zhong^2 On dual basis of bivariate box-spline. **89d:41030**

Wang, Ren Hong *see* **Chui, C. K.; et al., 89i:41015**
Wegman, E. J. *see* **Miller, John J., 89a:41012**
Wong, Wing Hung *see* **Dyn, Nira, 89a:41010**
Wu, Jin Dimensions and bases of bivariate quartic spline spaces. (Chinese) **89d:41032**
Wu, Xin Yuan A class of inverse problems for ordinary differential equations and its applications. (Chinese) **89f:65091**
Wu, Zheng Chang *see* **Guo, Zhu Rui; et al., 89b:41019**
Xie, Zhi Yun *see* **Huang, You Qian, 89j:41014**
Ye, Mao Dong Interpolation to half-integral nodes by splines in the class $S_2^1(\Delta_{mn}^{(2)})$. (Chinese. English summary) **89m:41011**
Yoshimoto, F. Least squares approximation by one-pass methods with piecewise polynomials. **89a:65027**
Zav'yalov, Yu. S. *see* **Vershinin, V. V.; et al., 89f:41019**
Zhang, You Xun (*with* Wang, Hui) The bivariate quadratic piecewise polynomial spline interpolation functions. (Chinese) **89b:41023**
Zheludev, V. A. Local spline-approximation on arbitrary grids. (Russian) **89k:41016**
Zwick, D. Strong uniqueness of best spline approximation for a class of piecewise n-convex functions. **89b:41037**

65D10 Smoothing, curve fitting

Alimov, A. L. A method of data compression for digital correcting of readings of a measuring system. (Russian) **89f:65017**
Almgren, F. Applications of multiple-valued functions. (*see* **89b:65010**)
Apprato, D. (*with* Arcangéli, R.; Manzanilla, R.) Sur la construction de surfaces de classe C^k à partir d'un grand nombre de données de Lagrange. (English summary) [On the construction of C^k-surfaces starting from a large number of Lagrange data] **89e:65016**
Arcangéli, R. *see* **Apprato, D.; et al., 89e:65016**
Barnhill, Robert E. (*with* Makatura, George T.; Stead, Sarah E.) A new look at higher-dimensional surfaces through computer graphics. (*see* **89b:65010**)
Barsky, Brian A. ★ Computer graphics and geometric modeling using beta-splines. **89g:65015**
— *see also* **Bartels, Richard H.; et al., 89f:65018**
Bartels, Richard H. (*with* Beatty, John C.; Barsky, Brian A.) ★ An introduction to splines for use in computer graphics and geometric modeling. **89f:65018**
Beatty, John C. *see* **Bartels, Richard H.; et al., 89f:65018**
Beyer, G. (*with* Harms, S.) Ableitung und Realisierung eines Algorithmus zum Schnitt zweier Quadriken. [Derivation and realization of an algorithm for the intersection of two quadrics] (*see* **89b:65043a**)
(Bézier, Pierre) *see* **Ding, Qiu Lin, 89b:65037** *and* **Bartels, Richard H.; et al., 89f:65018**
Boehm, Wolfgang Smooth curves and surfaces. (*see* **89b:65010**)
de Boor, Carl *B*-form basics. (*see* **89b:65010**)
Bosworth, Ken W. Shape constrained curve and surface fitting. (*see* **89b:65010**)
Brunet, Pere Including shape handles in recursive subdivision surfaces. **89c:65021**
Carlson, R. E. Shape preserving interpolation. **89e:65017**
Chandru, Vijaya (*with* Kochar, Bipin S.) Analytic techniques for geometric intersection problems. (*see* **89b:65010**)
Charron, R. J. Adapting rational approximants for Fourier series to data representation problems. (German summary) **89k:65015**
Cuesta Saínz de la Torre, Lylia E. *see* **Soto Villaverde, Andrés, 89f:65021**
Davies, B. J. *see* **Ding, Qiu Lin, 89b:65037**
Ding, Qiu Lin (*with* Davies, B. J.) ★ Surface engineering geometry for computer-aided design and manufacture. **89b:65037**
Drs, L. Drie- und zweieckige Pflaster. [Three- and two-cornered tiles] **89b:65043b**
Dyn, Nira (*with* Levin, David; Gregory, John A.) A 4-point interpolatory subdivision scheme for curve design. **89c:65022**
Farin, Gerald (*with* Piper, B.; Worsey, A. J.) The octant of a sphere as a nondegenerate triangular Bézier patch. **89b:65038**
— Geometry in design: the Bézier method. **89b:65039**
Farouki, R. T. Direct surface section evaluation. (*see* **89b:65010**)
Field, David A. Mathematical problems in solid modeling: a brief survey. (*see* **89b:65010**)
Fiorot, Jean-Charles (*with* Jeannin, Pierre) Surfaces rationnelles sur un carré contrôlées par des points pondérés et des vecteurs. (English summary) [Rational surfaces on a square controlled by weighted points and vectors] **89a:65022**
(Forrest, A. Robin) *see* **Bartels, Richard H.; et al., 89f:65018**
Goldman, Ronald N. The role of surfaces in solid modeling. (*see* **89b:65010**)
Goodman, T. N. T. (*with* Micchelli, Charles A.) Corner cutting algorithms for the Bézier representation of free form curves. **89e:65018**
Gotusso, Laura (*with* Roux, Delfina) Remarks on a smoothing problem. (Italian summary) **89i:65013**
Gregory, John A. *see* **Dyn, Nira; et al., 89c:65022**
de Groen, Pieter P. N. The fit of a sum of exponentials to data. **89a:65023**
Hagen, Hans (*with* Schulze, Guido) Automatic smoothing with geometric surface patches. **89f:65019**
Harms, S. *see* **Beyer, G., (89b:65043a)**
Herron, Gary Techniques for visual continuity. (*see* **89b:65010**)
Hoffmann, Christoph (*with* Hopcroft, John) The potential method for blending surfaces and corners. (*see* **89b:65010**)
— Algebraic curves. **89b:65040**
Hopcroft, John *see* **Hoffmann, Christoph, (89b:65010)**
Hoschek, Josef Algebraische Methoden zum Glätten und Schneiden von Splineflächen. [Algebraic methods for smoothing and intersecting of spline surfaces] **89f:65020**
— Intrinsic parametrization for approximation. **89c:65023**
Ivanas, V. I. Efficient algorithms for the processing of experimental data. (Russian) **89d:65014**
Jakeš, Jaromír A numerical method of fitting a multiparameter nonlinear function to experimental data in the L_1 norm. (Russian and Czech summaries) **89d:65015**
Jeannin, Pierre *see* **Fiorot, Jean-Charles, 89a:65022**
Jiang, Zong Wen *see* **Yang, Ming, (Not in MR)**
Kochar, Bipin S. *see* **Chandru, Vijaya, (89b:65010)**
Lee, Eugene T. Y. The rational Bézier representation for conics. (*see* **89b:65010**)
Levin, David Multidimensional reconstruction by set-valued approximations. **89e:65019**
— *see also* **Dyn, Nira; et al., 89c:65022**
Lichten, Larry (*with* Samek, Marcel) Integrating sculptured surfaces into a polyhedral solid modeling system. (*see* **89b:65010**)
Makatura, George T. *see* **Barnhill, Robert E.; et al., (89b:65010)**
Manzanilla, R. *see* **Apprato, D.; et al., 89e:65016**
Meyers, Ray J. *see* **Sederberg, Thomas W., 89e:65020**
Micchelli, Charles A. (*with* Prautzsch, Hartmut) Computing surfaces invariant under subdivision. **89b:65041**
— *see also* **Goodman, T. N. T., 89e:65018**
Munchmeyer, Frederick Shape interrogation: a case study. (*see* **89b:65010**)
Nielson, Gregory M. A transfinite, visually continuous, triangular interpolant. (*see* **89b:65010**)
Owen, John C. (*with* Rockwood, Alyn P.) Intersection of general implicit surfaces. (*see* **89b:65010**)
— *see also* **Rockwood, Alyn P., (89b:65010)**
Piper, B. Visually smooth interpolation with triangular Bézier patches. (*see* **89b:65010**)
— *see also* **Farin, Gerald; et al., 89b:65038**
Prautzsch, Hartmut *see* **Micchelli, Charles A., 89b:65041**
Rockwood, Alyn P. (*with* Owen, John C.) Blending surfaces in solid modeling. (*see* **89b:65010**)
— *see also* **Owen, John C., (89b:65010)**
Roux, Delfina *see* **Gotusso, Laura, 89i:65013**
Samek, Marcel *see* **Lichten, Larry, (89b:65010)**
Schulze, Guido *see* **Hagen, Hans, 89f:65019**
Schumaker, L. L. Numerical aspects of spaces of piecewise polynomials on triangulations. **89a:65024**
Schwartz, Art J. Subdividing Bézier curves and surfaces. (*see* **89b:65010**)
Sederberg, Thomas W. Algebraic geometry for surface and solid modeling. (*see* **89b:65010**)
— (*with* Meyers, Ray J.) Loop detection in surface patch intersections. **89e:65020**
Séquin, Carlo H. *see* **Shirman, Leon A., 89b:65042**
Shirman, Leon A. (*with* Séquin, Carlo H.) Local surface interpolation with Bézier patches. **89b:65042**
Soto Villaverde, Andrés (*with* Cuesta Saínz de la Torre, Lylia E.) Application of Fourier series to curve fitting. (Spanish. English summary) **89f:65021**
Spedicato, E. (*with* Vespucci, M. T.) Numerical experiments with variations of the Gauss-Newton algorithm for nonlinear least squares. **89d:65016**
Starostenko, E. V. *see* **Strakhov, V. N., 89d:65017**
Stead, Sarah E. *see* **Barnhill, Robert E.; et al., (89b:65010)**
Strakhov, V. N. (*with* Starostenko, E. V.) Smoothing of continuous experimental data by the method of Fourier series. (Russian) **89d:65017**
Utreras, Florencio I. Constrained surface construction. **89e:65021**
Vespucci, M. T. *see* **Spedicato, E., 89d:65016**
Wang, Qing Yin A generating rule for discrete functions and a generalized GM model. (Chinese. English summary) **89m:65016**
Watson, G. A. The solution of generalized least squares problems. **89a:65025**
— Methods for best approximation and regression problems. **89a:65026**
Worsey, A. J. *see* **Farin, Gerald; et al., 89b:65038**
Yang, Ming (*with* Jiang, Zong Wen) An optimization algorithm for the best fitting of straight lines to transducer characteristics. (Chinese. English summary) (Not in MR)
Yoshimoto, F. Least squares approximation by one-pass methods with piecewise polynomials. **89a:65027**

Items listed otherwise than by author

Computer geometry ★ Computergeometrie. (German) [Computer geometry] **89b:65043a**
Computergeometrie ★ Computergeometrie. (German) [Computer geometry] **89b:65043a**
Johanngeorgenstadt ★ Computergeometrie. (German) [Computer geometry] **89b:65043a**
Symposium:
Computer geometry ★ Computergeometrie. (German) [Computer geometry] **89b:65043a**

Items with secondary classifications in 65D10

Boggs, Paul T. (*with* Byrd, Richard H.; Schnabel, Robert B.) A stable and efficient algorithm for nonlinear orthogonal distance regression. **89a:62150**
Byrd, Richard H. *see* **Boggs, Paul T.; et al., 89a:62150**
Diamond, Phil Fuzzy least squares. **89k:03064**
Eubank, Randall L. ★ Spline smoothing and nonparametric regression. **89g:62055**
(Farin, Gerald) *see* **Geometric modeling, 89b:65010**
Farouki, R. T. (*with* Rajan, V. T.) On the numerical condition of polynomials in Bernstein form. **89a:65028**
Franke, Richard Recent advances in the approximation of surfaces from scattered data. **89a:41011**
Jensen, Thomas Assembling triangular and rectangular patches and multivariate splines. (*see* **89b:65010**)
Kishimoto, Kazuo[2] On a distance between two curves. (*see* **89g:82013**)
Lau, K. H. Conditions for avoiding loss of geometric continuity on spline curves. **89j:65015**
Lee, David[2] Fast multiplication of a recursive block Toeplitz matrix by a vector and its application. **89a:65071**
Lukš, Antonín The quantized Jacobi polynomials. (Russian and Czech summaries) **89e:33019**
Narula, Subhash C. (*with* Wellington, John F.) An efficient algorithm for the MSAE and the MMAE regression problems. (Not in MR)
Otsu, Nobuyuki Recognition of shape and transformation: an invariant-theoretical foundation. (*see* **89g:82013**)
Patterson, Richard R. Parametric cubics as algebraic curves. **89k:14043**
Rajan, V. T. *see* **Farouki, R. T., 89a:65028**
Schnabel, Robert B. *see* **Boggs, Paul T.; et al., 89a:62150**
Sun, Jia Chang *see* **Zhao, Kang, 89i:41014**
Tarantola, Albert ★ Inverse problem theory. **89b:65007**
Wellington, John F. *see* **Narula, Subhash C., (Not in MR)**

Yan, Chang Ling On the integral representation of Bézier functions. (Chinese. English summary) **89e:41048**

Zhao, Kang (*with* Sun, Jia Chang) Dual bases of multivariate Bernstein-Bézier polynomials. **89i:41014**

Items listed otherwise than by author

Geometric modeling ★ Geometric modeling. **89b:65010**

65D15 Algorithms for functional approximation

Aĭdu, È. A. I. Approach and guidance. An algorithm for mean-square approximation of a line. (Russian) **89m:65017**

Alfeld, Peter A case study of multivariate piecewise polynomials. (*see* **89b:65010**)

Arioka, Shigekatsu Padé-type approximants in multivariables. **89f:65022**

Boyanov, Borislav D. σ-perfect splines and their application to optimal recovery problems. **89m:65018**

Breuer, P. T. A new method for real rational uniform approximation. **89b:65044**

de Bruin, Marcel G. Simultaneous partial Padé approximants. **89b:65045**

Caldwell, James Computation of eigenvalues of spheroidal harmonics using relaxation. **89m:65019**

Chiang, Yi-Ling F. A modified Remes algorithm. **89h:65027**

Cohen, Alan Max (*with* Longman, I. M.) The summation of power series having positive coefficients. (Not in MR)

Dunham, Charles B. Approximation with one (or few) parameters nonlinear. **89c:65024**

Farouki, R. T. (*with* Rajan, V. T.) On the numerical condition of polynomials in Bernstein form. **89a:65028**

Gashkov, S. B. Complexity of the approximate realization of functions, satisfying the Lipschitz condition, by schemes in continuous bases. **89h:65028**

González-Vera, Pablo On certain applications of two-point Padé type approximants with a single pole. **89f:65023**

Graves-Morris, P. R. (*with* Saff, E. B.) Row convergence theorems for generalised inverse vector-valued Padé approximants. **89k:65016**

Guerrero, Antonio L. (*with* Martín, Pablo) Higher order two-point quasi-fractional approximations to the Bessel functions $J_0(x)$ and $J_1(x)$. **89j:65016**

Handscomb, D. C. Recovery of fluid flow fields. **89f:65024**

Hochbaum, Dorit S. The concept of best possibility in the analysis of approximation algorithms. **89j:65017**

Hosono, Toshio Numerical algorithm for Taylor series expansion. **89i:65014**

Illán González, Jesús *see* **López Lagomasino, Guillermo**, **89b:65049**

van Iseghem, Jeannette Vector orthogonal relations. Vector QD-algorithm. **89c:65025**

Iserles, A. (*with* Nørsett, Syvert P.) Error control of rational approximation with a matrix argument. **89f:65025**

Jiang, Shou Shan G^1 and G^2 interpolations to 3D scattered data. (Chinese. English summary) **89i:65015**

Kálovics, Ferenc A fast iteration for uniform approximation. (Russian and Czech summaries) **89i:65016**

Karageorghis, Andreas A note on the Chebyshev coefficients of the moments of the general order derivative of an infinitely differentiable function. **89b:65046**

Kaufman, E. H., Jr. (*with* Taylor, G. D.) Infinite-interval nonlinear approximations. **89b:65047**

Kemp, A. W. A note on Stirling's expansion for factorial n. **89m:65020**

Korchanov, S. V. Algorithms, optimal in classes of grid products, for reconstruction of a repeated functional. (Russian) **89a:65029**

Lazarev, A. V. Convergence of the t-method for solving the discrete Chebyshev approximation problem. (Russian. English summary) **89b:65048**

Lepp, Riho Discrete approximation conditions for a space of essentially bounded functions. (Russian. English and Estonian summaries) **89i:65017**

Levin, David Multidimensional reconstruction by set-valued approximations. **89h:65029**

Li, Jia^1 *see* **Xu, Guo Liang**, **89b:65050**

Lin, Qun Convexity of planar rational Bézier curves. (Chinese. English summary) **89f:65026**

Longman, I. M. *see* **Cohen, Alan Max**, (Not in MR)

López Lagomasino, Guillermo (*with* Illán González, Jesús) The interpolation methods of numerical integration and their connection with rational approximation. (Spanish. English summary) **89b:65049**

Martín, Pablo *see* **Guerrero, Antonio L.**, **89j:65016**

Minarchenko, A. N. An adaptive method for the reconstruction of functions. (Russian) **89d:65018**

Nørsett, Syvert P. *see* **Iserles, A.**, **89f:65025**

Opfer, G. Complex rational approximation with numerical experiments. **89f:65027**

Plekhanova, E. I. *see* **Smelov, V. V.**, **89c:65026**

Rajan, V. T. *see* **Farouki, R. T.**, **89a:65028**

Sacchi Landriani, G. (*with* Vandeven, Hervé) Polynomial approximation of divergence-free functions. **89m:65021**

Saff, E. B. *see* **Graves-Morris, P. R.**, **89k:65016**

Sederberg, Thomas W. (*with* Wang, Xuguang) Rational hodographs. **89d:65019**

Shloma, L. I. Reconstruction of a function from formulas for rectangles. (Russian) **89d:65020**

Smelov, V. V. (*with* Plekhanova, E. I.) ★ Аппроксимация кусочно-гладких функций собственными решениями задач Штурма-Лиувилля (теория и иллюстрация). (Russian) [Approximation of piecewise smooth functions by eigensolutions of Sturm-Liouville problems (theory and illustration)] **89c:65026**

Sobol′, I. M. On functions, satisfying the Lipschitz condition, in multidimensional problems of numerical mathematics. (Russian) **89e:65022**

(Solomon, Harold) *see* **Yamaguchi, Fujio**, **89j:65018**

Taylor, G. D. *see* **Kaufman, E. H., Jr.**, **89b:65047**

Tůma, Miroslav A note on direct methods for approximations of sparse Hessian matrices. (Russian and Czech summaries) **89e:65023**

Vandeven, Hervé *see* **Sacchi Landriani, G.**, **89m:65021**

Wang, Xuguang *see* **Sederberg, Thomas W.**, **89d:65019**

Watson, G. A. Data fitting by positive sums of exponentials. **89a:65030**

Xu, Guo Liang (*with* Li, Jia^1) On the cardinalities of interpolating restricted ranges. **89b:65050**

Yamaguchi, Fujio ★ Curves and surfaces in computer aided geometric design. **89j:65018**

Zaĭtsev, Aleksandr Vladimirovich Calculation of functions by means of expansions in Bessel functions of the first kind. (Russian) **89b:65051**

Zhu, Chang Zhong Two limit theorems on varisolvent approximation. (Chinese. English summary) **89d:65021**

Items with secondary classifications in 65D15

Berendt, G. *see* **Schomburg, B.**, **89h:86002**

Berg, Lothar Interpolation and approximation by completely monotonous polynomials. **89k:41002**

de Boor, Carl *B*-form basics. (*see* **89b:65010**)

Brutman, L. Generalized alternating polynomials, some properties and numerical applications. **89h:65021**

Curry, James H. (*with* Fiedler, Stuart L.) On the dynamics of Laguerre's iteration: $Z^n - 1$. **89h:65076**

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Ellacott, S. W. (*with* Saff, E. B.) On Clenshaw's method and a generalisation to Faber series. **89i:34008**

Fiedler, Stuart L. *see* **Curry, James H.**, **89h:65076**

Giannozzi, Paolo (*with* Grosso, Giuseppe; Moroni, Saverio; Pastori Parravicini, Giuseppe) The ordinary and matrix continued fractions in the theoretical analysis of Hermitian and relaxation operators. **89g:81111**

Grosso, Giuseppe *see* **Giannozzi, Paolo; et al.**, **89g:81111**

Gutknecht, Martin *see* **Trefethen, Lloyd N.**, **89g:41011**

Jackowski, T. (*with* Woźniakowski, Henryk) Complexity of approximation with relative error criterion in worst, average, and probabilistic settings. **89a:68102**

Kálovics, Ferenc An algorithm for the best Chebyshev approximations. **89b:41033**

Ko, Ker-I On the computational complexity of best Chebyshev approximations. **89g:68027**

Konno, Hiroshi (*with* Kuno, Takahito) Best piecewise constant approximation of a function of single variable. **89h:90158**

Kuno, Takahito *see* **Konno, Hiroshi**, **89h:90158**

Li, Chong *see* **Xu, Shi Ying**, **89c:41019**

Liu, Ding Yuan Algorithms for computing area and volume bounded by Bézier curves and surfaces. (Chinese. English summary) **89i:65021**

Martínez Finkelshtein, Andrei Concerning an inverse problem for rows of multipoint Padé approximants of Newtonian type. (Spanish. English summary) **89d:30046**

Mertzios, B. G. *see* **Papamarkos, N.; et al.**, **89e:90136**

Moroni, Saverio *see* **Giannozzi, Paolo; et al.**, **89g:81111**

Osher, Stanley *see* **Sethian, James**, (**89j:35007**)

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Petrushev, Pencho P. (*with* Popov, Vasil Atanasov) ★ Rational approximation of real functions. **89i:41022**

Popov, Vasil Atanasov *see* **Petrushev, Pencho P.**, **89i:41022**

Reznik, A. A. Sobolev spaces of functions on families of discrete sets. Trace theorems. **89m:46067**

Saff, E. B. *see* **Ellacott, S. W.**, **89i:34008**

Sasse, A. G. B. M. *see* **Wormeester, H.; et al.**, **89k:94008**

Schomburg, B. (*with* Berendt, G.) On the convergence of the Backus-Gilbert algorithm. **89h:86002**

Sethian, James (*with* Osher, Stanley) The design of algorithms for hypersurfaces moving with curvature-dependent speed. (*see* **89j:35007**)

Shen, Xie Chang (*with* Wu, Zhi Jian) Generalized rational approximation in Bers spaces. **89m:30081**

van Silfhout, A. *see* **Wormeester, H.; et al.**, **89k:94008**

Tang, Ping Tak Peter A fast algorithm for linear complex Chebyshev approximations. **89j:30054**

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Vachtsevanos, G. *see* **Papamarkos, N.; et al.**, **89e:90136**

Verdonk, Brigitte M. *see* **Cuyt, Annie A. M.**, **89k:41018**

Watson, G. A. Methods for best approximation and regression problems. **89a:65026**

— Convex L^p approximation. **89j:41053**

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Woźniakowski, Henryk *see* **Jackowski, T.**, **89a:68102**

Wu, Zhi Jian *see* **Shen, Xie Chang**, **89m:30081**

Xie, Ting Fan On simultaneous approximation of functions and its derivatives by Fourier sums. **89h:41042**

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Yang, Jia Xin *see* **Xu, Li Zhi**, **89e:41001**

65D20 Computation of special functions, construction of tables

Achuthan, P. (*with* Müller-Kirsten, H. J. W.) Asymptotic expansions, converging factors and Padé approximants. **89e:65024**

— (*with* Sundar, S.) A new application of the extended Euclidean algorithm for matrix Padé approximants. **89g:65016**

Babushkina, L. V. (*with* Kerimov, M. K.; Nikitin, A. I.) Algorithms for the calculation of Bessel functions of half-integer indices with complex arguments. (Russian) **89m:65022a**

— (*with* Kerimov, M. K.; Nikitin, A. I.) Algorithms for calculating spherical Bessel functions in the complex domain. (Russian) **89m:65022b**
Bakhvalov, N. S. (*with* Kobel′kov, G. M.; Noskov, Yu. V.) ★ О практическом вычислении значений ортогональных многочленов непрерывного и дискретного аргумента. (Russian) [Practical calculation of the values of orthogonal polynomials of a continuous or discrete argument] **89b:65052**
Barnett, A. R. *see* **Thompson, I. J., 89b:65054**
Bobatto, G. E. *see* **Milone, A. A. E.; et al., 89h:65031**
Chiccoli, C. (*with* Lorenzutta, S.; Maino, G.) On the evaluation of generalized exponential integrals $E_\nu(x)$. **89h:65030**
Closas, Ll. (*with* Fernández Rubio, J.) Rapid computation of the modified Bessel functions $K_{is}(x)$ and $I_{is}(x)$ and their derivatives. (Spanish) **89k:65017**
Costovici, Gh. *see* **Popovici, Elena; et al., 89m:65024**
Fernández Rubio, J. *see* **Closas, Ll., 89k:65017**
García, Mauricio A numerical method for computing Bessel functions of integral order. (Spanish) **89m:65023**
Kerimov, M. K. (*with* Skorokhodov, S. L.) Calculation of multiple complex zeros of derivatives of cylindrical Bessel functions. (Russian) **89b:65053**
— *see also* **Babushkina, L. V.; et al., 89m:65022a** *and* **89m:65022b**
Kobel′kov, G. M. *see* **Bakhvalov, N. S.; et al., 89b:65052**
Krishnaswamy, N. Evaluation of elliptic integral: a new technique. (Not in MR)
Ladera, Celso L. (*with* Martín, Pablo) Transmittance of a circular aperture by an integrable fractional-like approximation to $J_0(x)$ function. **89e:65025**
Lorenzutta, S. *see* **Chiccoli, C.; et al., 89h:65030**
Maino, G. *see* **Chiccoli, C.; et al., 89h:65030**
Malozëmova, L. K. Additional data on polynomials that deviate the least from zero with the derivative. (Russian. English summary) **89f:65028**
Martín, Pablo *see* **Ladera, Celso L., 89e:65025**
Milone, A. A. E. (*with* Milone, L. A.; Bobatto, G. E.) Numerical evaluation of the line broadening function $H(a, v)$. **89h:65031**
Milone, L. A. *see* **Milone, A. A. E.; et al., 89h:65031**
Müller-Kirsten, H. J. W. *see* **Achuthan, P., 89e:65024**
Nikitin, A. I. *see* **Babushkina, L. V.; et al., 89m:65022a** *and* **89m:65022b**
Noskov, Yu. V. *see* **Bakhvalov, N. S.; et al., 89b:65052**
Popovici, Constantin Ioan *see* **Popovici, Elena; et al., 89m:65024**
Popovici, Elena (*with* Costovici, Gh.; Popovici, Constantin Ioan) The calculation of sums of harmonic series of even power. (Romanian summary) **89m:65024**
Puoskari, M. A method for computing Bessel function integrals. **89i:65018**
Skorokhodov, S. L. *see* **Kerimov, M. K., 89b:65053**
Sun, Jia Chang (*with* Zhao, Kang) On the structure of Bézier nets. **89j:65019**
Sundar, S. *see* **Achuthan, P., 89g:65016**
Tang, Zheng Quan A method for computing the connecting points of piecewise Bézier spline curves and its application to the computer-aided geometric design of shapes of pieces of cloth. (Chinese. English summary) **89k:65018**
Thompson, I. J. (*with* Barnett, A. R.) Modified Bessel functions $I_\nu(z)$ and $K_\nu(z)$ of real order and complex argument, to selected accuracy. **89b:65054**
Volk, W. An efficient raster evaluation method for univariate polynomials. (German summary) **89f:65029**
Waadeland, Haakon Computation of continued fractions by square-root modification: reflections and examples. **89g:65017**
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Zhao, Kang *see* **Sun, Jia Chang, 89j:65019**

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Adam, Gh. Alternative formulation of the extended Clenshaw-Curtis quadrature rules for oscillating integrals. **89c:65027**
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Bolz, Heinrich (*with* Niethammer, Wilhelm) On the evaluation of matrix functions given by power series. **89c:65055**
Boyd, David W. Reciprocal polynomials having small measure. II. **89m:30013**
Carlson, B. C. A table of elliptic integrals: cubic cases. **89m:65009**
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Kalker, Ton A. C. M. *see* **van Laarhoven, P. J. M., 89f:33002**
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Nigro, Alfio On a particular class of iterated transformations. An application involving entire rational functions. (Italian. English summary) **89k:26002**
Rossetti, C. Approximate expressions for the Bessel functions and their zeros. (Italian and Russian summaries) **89i:33012**
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Sismondi, Silvana *see* **Mathis, Maria Luisa, 89d:33019**
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65D25 Numerical differentiation

Anikonov, D. S. Quasisolution of a problem of numerical differentiation type. (Russian. Kazakh summary) **89i:65019**
Chen, Dao Qi Approximating function derivatives by multiple spline-on-spline interpolations. (Chinese. English summary) **89m:65025**
Criscuolo, Giuliana (*with* Mastroianni, G.) Convergence of Gaussian formulas for the approximation of derivatives of Cauchy principal value integrals. (Italian. English summary) **89e:65026**
Fischer, Herbert Some aspects of automatic differentiation. (*see* **89c:65007**)
Fornberg, Bengt Generation of finite difference formulas on arbitrarily spaced grids. **89b:65055**
Hoffman, Peter (*with* Reddy, K. C.) Numerical differentiation by high order interpolation. **89a:65032**
Ingber, Marc S. (*with* Mitra, Ambar K.) The evaluation of the normal derivative along the boundary in the direct boundary element method. (Not in MR)
Karageorghis, Andreas A note on the Chebyshev coefficients of the general order derivative of an infinitely differentiable function. **89b:65056**
King, J. Thomas (*with* Murio, D. A.) Numerical differentiation by finite-dimensional regularization. **89h:65032**
Mastroianni, G. *see* **Criscuolo, Giuliana, 89e:65026**
Milovanović, Gradimir V. Some applications of the polynomials orthogonal on the semicircle. **89e:65027**
Mitra, Ambar K. *see* **Ingber, Marc S.,** (Not in MR)
Murio, D. A. *see* **King, J. Thomas, 89h:65032**
Reddy, K. C. *see* **Hoffman, Peter, 89a:65032**
Srazhidinov, A. A regularizer of numerical differentiation. (Russian) **89h:65033**
— Calculation of the derivatives of experimentally given functions. I. (Russian) **89j:65020**
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Items with secondary classifications in 65D25

Abadie, J. (*with* Salhi, Y.) Sur la dérivation numérique en optimisation. (English summary) [On numerical derivation in optimization] **89f:90129**
Closas, Ll. (*with* Fernández Rubio, J.) Rapid computation of the modified Bessel functions $K_{is}(x)$ and $I_{is}(x)$ and their derivatives. (Spanish) **89k:65017**
Fernández Rubio, J. *see* **Closas, Ll., 89k:65017**
Gasca, M. (*with* Martínez, José Javier) On the computation of multivariate confluent Vandermonde determinants and its applications. **89a:65069**
Jakševičius, Šarūnas Estimation of the derivatives of a composite function. (Russian. English and Lithuanian summaries) **89a:26024**
Martínez, José Javier *see* **Gasca, M., 89a:65069**
Salhi, Y. *see* **Abadie, J., 89f:90129**
Sederberg, Thomas W. (*with* Wang, Xuguang) Rational hodographs. **89d:65019**
Swartz, Blair Conditioning collocation. **89b:65181**
Trefethen, Lloyd N. (*with* Trummer, Manfred R.) An instability phenomenon in spectral methods. **89a:65139**
Trummer, Manfred R. *see* **Trefethen, Lloyd N., 89a:65139**
Wang, Xuguang *see* **Sederberg, Thomas W., 89d:65019**

65D30 Numerical integration

Acharya, B. P. (*with* Pattnaik, T. N.) A modification of the Birkhoff-Young rule for numerical quadrature of analytic functions. (Not in MR)
Beer, G. *see* **Liu, Jun^1; et al.,** (**89f:65003**)
Belova, M. Yu. *see* **Gluzberg, V. E., 89j:65023**
Boĭkov, I. V. (*with* Dobrynina, N. F.) Algorithms that are optimal with respect to accuracy for the calculation of Hadamard integrals. (Russian) (*see* **89g:65006**)
Boyd, John Philip Exponentially convergent Fourier-Chebyshev quadrature schemes on bounded and infinite intervals. **89d:65022**
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— *see also* **Chiodo, Claudia, 89h:65034**
Dagnino, C. (*with* Palamara Orsi, A.) Product integration of piecewise continuous integrands based on cubic spline interpolation at equally spaced nodes. **89d:65023**
Dobrynina, N. F. *see* **Boĭkov, I. V.,** (**89g:65006**)
de Doelder, P. J. On the Clausen integral $\mathrm{Cl}_2(\theta)$ and a related integral. I, II. **89b:65057**
Gatermann, Karin The construction of symmetric cubature formulas for the square and the triangle. (German summary) **89k:65019**
Gluzberg, V. E. (*with* Belova, M. Yu.) A method for the numerical integration of oscillating functions of a certain class. (Russian. Kazakh summary) **89j:65023**
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Guessab, Allal On the approximate calculation of integrals on a polygon in $\mathbf{R}^2$. **89k:65020**
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Koval′chik, Yu. I. Determination of and special cases of the calculation of the Feynman integral in a space of continuous vector functions of several variables. (Russian. English summary) **89h:65035**

Langerholc, John Volumes of diced hyperspheres: resumming the Tam-Zardecki formula. **89m:65026**
Likhoded, N. A. (*with* Sobolevskiĭ, P. I.) Approximate calculation of a class of path integrals and a class of multiple integrals. (Russian. English summary) **89b:65058**
Liu, Ding Yuan Algorithms for computing area and volume bounded by Bézier curves and surfaces. (Chinese. English summary) **89i:65021**
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Manno, Vincent P. A simple procedure for reducing numerical integration errors near singularities. (Not in MR)
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Mastroianni, G. *see* **Criscuolo, Giuliana, 89j:65022**
Meek, J. L. *see* **Liu, Jun^1; et al.**, (**89f:65003**)
Milone, A. A. E. *see* **Milone, L. A., 89g:65020**
Milone, L. A. (*with* Milone, A. A. E.) Evaluation of Dawson's function. **89g:65020**
Osborn, T. R. *see* **Sloan, Ian H., 89a:65035**
Palamara Orsi, A. *see* **Dagnino, C., 89d:65023**
Pattnaik, T. N. *see* **Acharya, B. P.**, (Not in MR)
Petrov, V. A. The calculation of integrals, with respect to "modular" measures, of exponentials with a quadratic functional in the exponent. (Russian. English summary) **89h:65036**
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Rudenko, A. K. An optimal algorithm for calculating singular integrals. (Russian) (*see* **89g:65006**)
Schwab, C. H. (*with* Wendland, W.) 3D BEM numerical integration. (*see* **89f:65003**)
Shabozov, M. Sh. (*with* Shabozov, O. Sh.) Approximate calculation of path integrals with respect to Gaussian measures by local splines of minimal deficiency. (Russian. Tajiki summary) **89j:65024**
Shabozov, O. Sh. *see* **Shabozov, M. Sh., 89j:65024**
Sidi, Avram A user-friendly extrapolation method for oscillatory infinite integrals. **89e:65029**
Sloan, Ian H. (*with* Osborn, T. R.) Multiple integration over bounded and unbounded regions. **89a:65035**
Smith, William E. *see* **Rabinowitz, Philip, 89b:65059**
Sobolevskiĭ, P. I. *see* **Likhoded, N. A., 89b:65058**
Sugihara, Masaaki A class of functions for which the trapezoidal rule gives the exact value of integral over the infinite interval. **89h:65037**
Utamura, Motoaki *see* **Koizumi, Makoto, 89e:65028**
Wang, Xiao Lin Cubic spline functions and the numerical evaluation of singular integrals of Cauchy type. (Chinese. English summary) **89i:65024**
Wendland, W. *see* **Schwab, C. H.**, (**89f:65003**)
Williams, Richard David *see* **Phythian, J. E., 89m:65027**
Yang, Jia Xin *see* **Mao, Wen Qun, 89i:65022**
Zanovello, Renato On some integrals in applied mathematics. (Italian. English summary) **89a:65036**

Items with secondary classifications in 65D30

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Cameron, David Euler and Maclaurin made easy. **89g:41021**
Cormack, Donald E. *see* **Vijayakumar, Sinnathurai, 89m:45004**
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Illán González, Jesús *see* **López Lagomasino, Guillermo, 89b:65049**
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Martínez, José Javier *see* **Gasca, M., 89a:65069**
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Streng, J. H. Calculation of integrals which occur in the analysis of circular stretched membrane sound radiation. **89j:41043**
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65D32 Quadrature and cubature formulas

Adam, Gh. Alternative formulation of the extended Clenshaw-Curtis quadrature rules for oscillating integrals. **89c:65027**
Aihie, V. U. (*with* Evans, G. A.) The tanh transformation for double integrals with singularities—a progressive rule. **89i:65025**
Bera, Rajendra K. Quadrature formula for a double-pole singular integral. (Not in MR)
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Coman, G. Optimal quadratures with regard to the efficiency. **89k:65022**
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Cools, Ronald (*with* Haegemans, Ann) Construction of sequences of embedded cubature formulae for circular symmetric planar regions. **89a:65037**
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Evans, G. A. *see* **Aihie, V. U., 89i:65025**
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— On weight functions admitting Chebyshev quadrature. **89b:65061**
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— On Chebyshev quadrature and variance of quadrature formulas. **89j:65025**
Gânscă, I. (*with* Coman, G.) On blending interpolation and cubature formulas. (Romanian. English summary) (Not in MR)
Gautschi, Walter (*with* Notaris, Sotirios E.) An algebraic study of Gauss-Kronrod quadrature formulae for Jacobi weight functions. **89f:65031**
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Geppini, M. (*with* Romani, F.) Automatic quadrature on Chebyshev points. (Not in MR)
Gotusso, Laura *see* **Roux, Delfina, 89f:65032**
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— Numerical cubature formulae with preassigned knots. **89c:65030**
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Kaul, Nancy *see* **Raina, B. L.; et al., 89h:65040**
Korobov, N. M. A criterion for the grid quality of quadrature formulas. (Russian) **89d:65025**
Kozlovskiĭ, N. Ya. An estimate for the remainder term of an interpolation quadrature formula. (Russian. English summary) **89h:65039**
Marchetti, Elena *see* **Caliò, Franca, 89m:65028**
Marnevskaya, L. A. (*with* Yanovich, L. A.) Construction of Chebyshev quadrature formulas for path integrals of a certain type. (Russian. English summary) **89g:65022**
Martinelli, Maria Renata (*with* Ossicini, Alessandro; Rosati, Francesco) Trigonometric hyper-Gaussian functionals in the analytic field. (Italian. English summary) **89d:65026**
Milovanović, Gradimir V. Construction of s-orthogonal polynomials and Turán quadrature formulae. **89g:65023**
(Mori, Masatake) *see* **Numerical quadrature, 89a:65041**
Musaev, B. I. *see* **Guliev, R. D., 89e:65031**
Myrzanov, Zh. E. Mixed Hermite interpolation and related cubature formulas. (Russian) **89b:65062**
Naurzbaev, Zh. (*with* Sinyaev, A. Ya.) A cubature formula for trapezoids. (Russian) (Not in MR)
Noskov, M. V. Formulas for the approximate integration of periodic functions. (Russian) (Not in MR)
Notaris, Sotirios E. *see* **Gautschi, Walter, 89f:65031**
Novak, Erich Stochastic properties of quadrature formulas. **89i:65026**
Okun′, M. G. Optimal quadrature formulas for the calculation of integrals with fixed weight. (Russian) (*see* **89g:65006**)
Ossicini, Alessandro *see* **Martinelli, Maria Renata; et al., 89d:65026**
Panasovich, V. O. (*with* Smīrnov, G. S.) An upper bound on the remainder of a cubature formula in terms of the best approximation. (Ukrainian. Russian summary) (Not in MR)
(Piessens, R.) *see* **Numerical quadrature, 89a:65041**
Ponomarenko, A. K. Fifth and seventh degree cubature formulas. (Russian) (Not in MR)
Raina, B. L. (*with* Kaul, Nancy; Warikoo, Sunita) Error bound for an osculatory quadrature formula. **89h:65040**
Rasputin, G. G. Conditions for the existence of a cubature formula of Gauss type. (Russian. English and German summaries) **89i:65027**
Rivlin, Theodore J. *see* **Gautschi, Walter, 89m:65029**
Romani, F. *see* **Geppini, M.**, (Not in MR)
Rosati, Francesco *see* **Martinelli, Maria Renata; et al., 89d:65026**
Roux, Delfina (*with* Gotusso, Laura) A counterexample in a linear algebra problem. (Italian. English summary) **89f:65032**
Schneider, Claus An analysis of Ralston's quadrature. **89h:65041**
Shadimetov, Kh. M. Optimal quadrature formulas for singular integrals of Cauchy type. (Russian) **89a:65040**
Shamsiev, È. A. On the sharpening of cubature formulas. (Russian) **89d:65027**
Sharipkhodzhaeva, F. Cubature formulas for a hyperball. (Russian) **89d:65028**
— Cubature formulas for a disk and a hypersphere. (Russian) **89e:65032**
Sinyaev, A. Ya. *see* **Naurzbaev, Zh.**, (Not in MR)

Sismondi, Silvana Extension of a quadrature formula of Radau. (Italian. English summary) **89k:65023**

Smīrnov, G. S. *see* **Panasovich, V. O.**, (Not in MR)

Stoyanova, S. B. A cubature formula of the thirteenth degree of accuracy for a hypersphere. (Russian) (Not in MR)

Takemasa, Tadashi Abscissae and weights for the Gauss-Laguerre quadrature formula. **89k:65024**

Tavernini, Lucio Composite quadratures for functions of dominated variation. **89m:65030**

Warikoo, Sunita *see* **Raina, B. L.; et al.**, **89h:65040**

Xu, Li Zhi (*with* Zhou, Yun Shi) Two classes of boundary type cubature formulas with algebraic precision. **89c:65031**

Xuan, Xiao Hua Optimal quadrature formulas with nonnegative Peano kernels. (Chinese) **89b:65063**

Yanovich, L. A. Best quadrature formulas in spaces of trajectories of random processes. (English summary) **89b:65064**

– *see also* **Marnevskaya, L. A.**, **89g:65022**

Zemach, C. *see* **Floryan, J. M.**, **89e:65030**

Zhou, Yun Shi *see* **Xu, Li Zhi**, **89c:65031**

Items listed otherwise than by author

Numerical quadrature ★ Numerical quadrature. **89a:65041**

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Babenko, V. F. Approximate calculation of scalar products. **89g:46075**

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Colombo, V. *see* **Monegato, G.**, **89g:65169**

Coman, G. On the efficiency of parallel computation in numerical quadrature. (*see* **89c:00027**)

Delves, L. M. (*with* Mohamed, J. L.) ★ Computational methods for integral equations. **89b:65311**

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Liggett, James A. Exact formulae for areas, volumes and moments of polygons and polyhedra. **89m:51036**

Milone, A. A. E. *see* **Milone, L. A.**, **89g:65020**

Milone, L. A. (*with* Milone, A. A. E.) Evaluation of Dawson's function. **89g:65020**

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Osipenko, K. Yu. Best and optimal quadrature formulas on classes of bounded analytic functions. **89h:41059**

Pavel, Paraschiva Sur certaines formules de quadrature optimales. (English summary) [On some optimal quadrature formulas] **89b:41039**

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65D99 None of the above, but in this section

Cabos, Christian On different formulations of the tau method. **89i:65028**

Clenshaw, C. W. (*with* Turner, P. R.) The symmetric level-index system. **89k:65025**

Diaconis, P. Bayesian numerical analysis. **89c:65032**

Farouki, R. T. (*with* Rajan, V. T.) Algorithms for polynomials in Bernstein form. **89c:65033**

– Computational issues in solid boundary evaluation. **89a:65042**

Flerov, Yu. A. A group-theoretic method for the analysis of the invariance of algorithms for the synthesis of curves. (Russian) **89d:65029**

Kemp, A. W. *see* **Shenton, L. R.**, **89k:65027**

Leino, M. *see* **Paatero, P.**, (**89c:00029**)

Marcellán, F. J. *see* **Ronveaux, A.**, **89k:65026**

Paatero, P. (*with* Leino, M.) Extremal solutions for regularizing ill-posed problems. (*see* **89c:00029**)

Rajan, V. T. *see* **Farouki, R. T.**, **89c:65033**

Rampl, Ivan A criterion for the distribution of null points of complex polynomials. (Czech. English and Russian summaries) **89j:65026**

Ronveaux, A. (*with* Marcellán, F. J.) Co-recursive orthogonal polynomials and fourth-order differential equation. **89k:65026**

Schumaker, L. L. Triangulation methods. **89e:65033**

Sederberg, Thomas W. (*with* Snively, J. P.) Parametrization of cubic algebraic surfaces. **89a:65043**

Shenton, L. R. (*with* Kemp, A. W.) An S-fraction and $\ln^2(1+x)$. **89k:65027**

Shloma, L. I. A method for processing experimental data. (Russian) **89i:65029**

Snively, J. P. *see* **Sederberg, Thomas W.**, **89a:65043**

Tang, Ze Sheng Intersections of free form surfaces and generation of their fillets. (Chinese. English summary) (Not in MR)

Tereshchenko, T. A. *see* **Zhuĭkov, V. Ya.**, (Not in MR)

Turner, P. R. *see* **Clenshaw, C. W.**, **89k:65025**

Zhao, Jian Min Convexity theorem of parametric triangular Bézier surfaces. **89c:65034**

Zhuĭkov, V. Ya. (*with* Tereshchenko, T. A.) Discrete symmetric transformation of functions on finite intervals. (Russian. English summary) (Not in MR)

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Bloomenthal, Jules Polygonization of implicit surfaces. (Not in MR)

Boyarsky, A. *see* **Friedman, N.; et al.**, **89h:58168**

Friedman, N. (*with* Boyarsky, A.; Scarowsky, M.) Ergodic properties of computer orbits for simple piecewise monotonic transformations. **89h:58168**

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Ott, Edward *see* **Grebogi, Celso; et al.**, **89i:58086**

Scarowsky, M. *see* **Friedman, N.; et al.**, **89h:58168**

Schroeder, W. J. (*with* Shephard, M. S.) Geometry-based fully automatic mesh generation and the Delaunay triangulation. **89m:51003**

Shephard, M. S. *see* **Schroeder, W. J.**, **89m:51003**

(**Solomon, Harold**) *see* **Yamaguchi, Fujio**, **89j:65018**

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Yap, Chee-Keng Symbolic treatment of geometric degeneracies. (*see* **89f:00029**)

Yorke, James A. *see* **Grebogi, Celso; et al.**, **89i:58086**

65E05 Numerical methods in complex analysis (potential theory, etc.) {For numerical methods in conformal mapping, see 30C30.}

Anastasselou, Eleni G. A formal comparison of the Delves-Lyness and Burniston-Siewert methods for locating the zeros of analytic functions. **89i:65030**

Brauchli, H. *see* **Haas, R.**, (**89f:65003**)

Chetverushkin, B. N. *see* **Vabishchevich, P. N.; et al.**, **89j:65029**

Coulmy, G. *see* **Luu, T. S.**, **89c:65035**

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Katz, C. Analytic integration of isoparametric 2D-boundary elements. (*see* **89f:65003**)

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Krishna, Hari *see* **Krishna, Bal; et al.**, **89j:65027**

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Pavlov, A. N. *see* **Vabishchevich, P. N.; et al.**, **89j:65029**

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Wang, Yunbiao *see* **Krishna, Bal; et al.**, **89j:65027**

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Bshouty, D. (*with* Hengartner, N.; Hengartner, W.) A constructive method for starlike harmonic mappings. **89m:30016**

Chang, Feng Cheng Power-series unification and reversion. **89c:30003**

Chen, Chang Chun *see* **Chen, Chang Ji**, **89k:30006**

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Csordas, G. (*with* Norfolk, T. S.; Varga, Richard) A lower bound for the de Bruijn-Newman constant Λ. **89m:30054**

Das, Shuvra *see* **Mitra, Ambar K.**, **89e:65142**

Ellacott, S. W. (*with* Saff, E. B.) On Clenshaw's method and a generalisation to Faber series. **89i:34008**

Erëmin, A. Yu. (*with* Kaporin, I. E.; Kerimov, M. K.) Calculation of derivatives of the Riemann zeta function in a complex domain. (Russian) **89i:11096**

Gilbert, William J. *see* **Vrscay, E. R.**, **89b:30026**

Gregor, Jiří The multidimensional *z*-transform and its use in solution of partial difference equations. **89g:44008**

Hengartner, N. *see* **Bshouty, D.; et al.**, **89m:30016**

Hengartner, W. *see* **Bshouty, D.; et al.**, **89m:30016**

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Kaporin, I. E. *see* **Erëmin, A. Yu.; et al.**, **89i:11096**

Katz, I. Norman *see* **Ying, Xingren**, **89g:65068**

Kerimov, M. K. *see* **Erëmin, A. Yu.; et al.**, **89i:11096**

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Martinelli, Maria Renata (*with* Ossicini, Alessandro; Rosati, Francesco) Trigonometric hyper-Gaussian functionals in the analytic field. (Italian. English summary) **89d:65026**
Menke, Klaus Point systems with extremal properties and conformal mapping. **89j:30007**
Milovanović, Gradimir V. Some applications of the polynomials orthogonal on the semicircle. **89e:65027**
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Mokin, Yu. I. Direct and iterative methods for solving integral equations of potential theory. (Russian) **89j:65091**
Norfolk, T. S. *see* **Csordas, G.; et al., 89m:30054**
Odlyzko, A. M. (*with* Schönhage, Arnold) Fast algorithms for multiple evaluations of the Riemann zeta function. **89j:11083**
Opfer, G. Complex rational approximation with numerical experiments. **89f:65027**
Osipenko, K. Yu. Best and optimal quadrature formulas on classes of bounded analytic functions. **89h:41059**
Ossicini, Alessandro *see* **Martinelli, Maria Renata; et al., 89d:65026**
Palagallo, Judith A. (*with* Price, Thomas E.) Properties of projections obtained by averaging certain polynomial interpolants. **89c:30099**
Papamichael, N. (*with* Stylianopoulos, S. N.) On a domain decomposition method for the computation of conformal modules. (Not in MR)
Pinder, G. F. *see* **Hromadka, Th. V., II; et al., 89b:65288**
Price, Thomas E. *see* **Palagallo, Judith A., 89c:30099**
Pykhteev, G. N. ★ Методы вычисления интегралов типа Коши. Точные методы. (Russian) [Methods for calculating integrals of Cauchy type. Exact methods] (Not in MR)
Renegar, James On the worst-case arithmetic complexity of approximating zeros of polynomials. **89a:68107**
Reusch, Michael F. Free boundary skin current magnetohydrodynamic equilibria. **89i:76097**
Rosati, Francesco *see* **Martinelli, Maria Renata; et al., 89d:65026**
Saff, E. B. *see* **Ellacott, S. W., 89i:34008**
Saylor, Paul E. (*with* Smolarski, Dennis C.) Computing the roots of complex orthogonal and kernel polynomials. **89c:30014**
Schönhage, Arnold *see* **Odlyzko, A. M., 89j:11083**
Semerdzhiev, Kh. I. *see* **Makrelov, I. V.; et al., 89k:30007a** *and* **89k:30007b**
Shen, Xie Chang (*with* Wu, Zhi Jian) Generalized rational approximation in Bers spaces. **89m:30081**
Smolarski, Dennis C. *see* **Saylor, Paul E., 89c:30014**
Stylianopoulos, S. N. *see* **Papamichael, N.**, (Not in MR)
Tamburov, S. G. *see* **Makrelov, I. V.; et al., 89k:30007a** *and* **89k:30007b**
Tang, Ping Tak Peter A fast algorithm for linear complex Chebyshev approximations. **89j:30054**
Varga, Richard *see* **Csordas, G.; et al., 89m:30054**
Volkov, E. A. Highly accurate practical results of conformal mappings of simply connected and doubly connected domains by a block method. (Russian) **89e:30008**
— Approximate conformal mapping by the block method of a disk with a polygonal hole onto a ring. (Russian) **89g:30016**
Vrscay, E. R. (*with* Gilbert, William J.) Extraneous fixed points, basin boundaries and chaotic dynamics for Schröder and König rational iteration functions. **89b:30026**
Wang, Xing Hua (*with* Zheng, Shi Ming) Generalized continued fractions to find all complex roots of algebraic equations simultaneously. **89h:65081**
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Wu, Zhi Jian *see* **Shen, Xie Chang, 89m:30081**
Xu, Guo Liang A generalization of the QD algorithm for rational Hermite interpolation. (Chinese. English summary) **89i:65010**
Yen, Ch.-Ch. *see* **Hromadka, Th. V., II; et al., 89b:65288**
Ying, Xingren (*with* Katz, I. Norman) A reliable argument principle algorithm to find the number of zeros of an analytic function in a bounded domain. **89g:65068**
Zheng, Shi Ming *see* **Wang, Xing Hua, 89h:65081**

Items with secondary classifications in 65E05

Geus, Lothar (*with* Henning, Walter; Vajteršic, Marián; Volkert, Jens) Matrix inversion algorithms for a pyramidal multiprocessor system. (Russian summary) (Not in MR)
Henning, Walter *see* **Geus, Lothar; et al.**, (Not in MR)
Vajteršic, Marián *see* **Geus, Lothar; et al.**, (Not in MR)
Volkert, Jens *see* **Geus, Lothar; et al.**, (Not in MR)

65Fxx Numerical linear algebra

(Bissell, C. C.) *see* **Kremer, H., 89f:65033**
(Fidler, J. K.) *see* **Kremer, H., 89f:65033**
Gregory, R. T. (*with* Krishnamurthy, E. V.) ★ Безошибочные вычисления. (Russian) [Error-free calculations] **89j:65030**
(Ikramov, Kh. D.) *see* **Gregory, R. T., 89j:65030**
(Knyazev, Andreĭ Vladimirovich) *see* **Gregory, R. T., 89j:65030**
Kremer, H. ★ Numerical analysis of linear networks and systems. **89f:65033**
Krishnamurthy, E. V. *see* **Gregory, R. T., 89j:65030**
Wilkinson, J. H. ★ The algebraic eigenvalue problem. **89j:65031**
Xie, De Xuan A new multigrid iteration for solving interface problems with small media ratio. (Chinese. English summary) **89k:65028**

Items with secondary classifications in 65Fxx

Boyarintsev, Yu. E. ★ Методы решения вырожденных систем обыкновенных дифференциальных уравнений. (Russian) [Methods for solving degenerate systems of ordinary differential equations] **89m:34002**
Coleman, Thomas F. (*with* Van Loan, Charles) ★ Handbook for matrix computations. **89h:65001**
Godunov, S. K. The problem of guaranteed exactness in numerical methods of linear algebra. (Russian) **89g:65059**
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Schwetlick, H. *see* **Kiełbasiński, A., 89e:65001**
Spellucci, Peter *see* **Törnig, Willi, 89j:65006**
Törnig, Willi (*with* Spellucci, Peter) ★ Numerische Mathematik für Ingenieure und Physiker. Band 1. (German) [Numerical mathematics for engineers and physicists. Vol. 1] **89j:65006**
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65F05 Direct methods for linear systems and matrix inversion

Ahac, Alan A. (*with* Buoni, John J.; Olesky, D. D.) Stable LU factorization of H-matrices. **89a:65044**
Allwright, J. C. Positive semidefinite matrices: characterization via conical hulls and least-squares solution of a matrix equation. **89e:65034**
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Bersenev, S. M. Stable solution of a class of matrix equations. (Russian) **89b:65066**
Bevilacqua, Roberto (*with* Codenotti, B.; Romani, F.) Parallel solution of block tridiagonal linear systems. **89g:65024**
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Brown, Robert Arthur *see* **Thomas, P. D., 89a:65050**
Buoni, John J. *see* **Ahac, Alan A.; et al., 89a:65044**
Chang, Stephen F. (*with* Kennedy, William J.) Error-free computer solution of certain systems of linear equations. **89c:65036**
Chen, Zeng Rong Inversion of general tridiagonal matrices. (Chinese. English summary) **89b:65068**
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— *see also* **Bevilacqua, Roberto; et al., 89g:65024**
Conceição, Eduardo Pinto *see* **Curi, Paulo Roberto**, (Not in MR)
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Day, Jane M. (*with* Peterson, Brian) Growth in Gaussian elimination. **89i:65032**
Dokovski, P. D. *see* **Vasileva, N. M.; et al., 89g:65027**
El Tarazi, Mouhamed Nabih On a monotony-preserving accelerator process for the successive approximations method. **89h:65042**
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— (*with* Kolotilina, L. Yu.) The Bruhat decomposition and the solution of systems of linear algebraic equations. (Russian) **89g:65025**
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Gragg, William B. *see* **Ammar, Gregory S., 89b:65065**
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Ikramov, Kh. D. Round-off errors, the growth of elements and duality relations in nonorthogonal methods for solving linear systems. (Russian) **89a:65047**
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Kaur, D. (*with* Wallach, Y.) Parallel methods for tridiagonal equations. (German summary) **89h:65043**
Kennedy, David *see* **Williams, F. W., 89d:65032**
Kennedy, William J. *see* **Chang, Stephen F., 89c:65036**
Kitagawa, Takashi On the effectiveness of the method of regularization in numerical procedures for ill-conditioned linear systems. **89i:65033**
Kolotilina, L. Yu. (*with* Erēmin, A. Yu.) Bruhat decomposition and solution of sparse linear algebraic systems. **89b:65070**
— *see also* **Erēmin, A. Yu., 89a:65045; 89g:65025** *and* **89j:65032**
Koltracht, I. *see* **Gohberg, I., 89k:65029**
Konig, Jean-Claude (*with* Robert, Yves; Trystram, Denis) Optimalité d'une classe d'algorithmes d'ordonnancement pour la méthode de Gauss en parallèle. (English summary) [Optimality of a class of scheduling algorithms for parallel Gaussian elimination] **89a:65048**

Kumskov, A. I. (*with* Popov, S. B.; Popov, Yu. P.) A modification of the Gauss method for the solution of five-point two-dimensional difference schemes of “cross” type. (Russian) **89h:65044**
Kurbanshoev, S. Z. *see* **Valeev, K. G., 89f:65036**
Kuznetsov, Yu. I. A triple algebraic structure. (Russian) **89c:65037**
Lamond, Bernard F. An efficient factorization for the group inverse. **89b:65071**
Lengauer, Thomas (*with* Wieners, Ch.) Efficient solutions of hierarchical systems of linear equations. (German summary) **89g:65026**
Lev-Ari, H. *see* **Chun, J.; et al., 89e:65035**
Li, Lei *see* **You, Zhao Yong, 89h:65046**
Mikhlin, S. G. Error estimation for a scheme of the Gauss method. (Russian) **89c:65038**
Molchanov, I. N. Direct methods for solving systems of linear algebraic equations on a computer with multiple flow of commands and data. (Russian) **89b:65072**
Moore, Gerald Some remarks on the deflated block elimination method. **89f:65035**
Mühlbach, G. *see* **Gasca, M., 89d:65031**
Narathong, Chiewchar *see* **Jones, John, Jr., 89k:65030**
Nedashkovskiĭ, N. A. A parallel direct method for solving systems of linear algebraic equations. (Russian. English summary) **89h:65045**
Ng, Esmond *see* **George, Alan, 89a:65046**
Olesky, D. D. *see* **Ahac, Alan A.; et al., 89a:65044**
Ortega, James M. *see* **Romine, C. H., 89a:65049**
Parlett, B. N. *see* **Schreiber, Robert, 89c:65040**
Peierls, Tim *see* **Gilbert, John R., 89f:65034**
Peterson, Brian *see* **Day, Jane M., 89i:65032**
Popov, S. B. *see* **Kumskov, A. I.; et al., 89h:65044**
Popov, Yu. P. *see* **Kumskov, A. I.; et al., 89h:65044**
Powell, M. J. D. On error growth in the Bartels-Golub and Fletcher-Matthews algorithms for updating matrix factorizations. **89c:65039**
Prevalska, K. G. *see* **Vasileva, N. M.; et al., 89g:65027**
Robert, Yves *see* **Konig, Jean-Claude; et al., 89a:65048**
Romani, F. *see* **Bevilacqua, Roberto; et al., 89g:65024**
Romine, C. H. (*with* Ortega, James M.) Parallel solution of triangular systems of equations. **89a:65049**
Schreiber, Robert (*with* Parlett, B. N.) Block reflectors: theory and computation. **89c:65040**
Shamaeva, O. Yu. *see* **Borzdova, T. V., 89i:65031**
Thomas, P. D. (*with* Brown, Robert Arthur) *LU* decomposition of matrices with augmented dense constraints. **89a:65050**
Trystram, Denis *see* **Konig, Jean-Claude; et al., 89a:65048**
Tyrtyshnikov, E. E. ★ Новые экономичные и быстрые алгоритмы для специальных классов теплицевых систем. (Russian) [New efficient and fast algorithms for special classes of Toeplitz systems] **89b:65073**
Valeev, K. G. (*with* Kurbanshoev, S. Z.) Inversion of ill-conditioned matrices. (Russian. Tajiki summary) **89f:65036**
Vasileva, N. M. (*with* Prevalska, K. G.; Dokovski, P. D.) A method for solving systems of linear equations. (Bulgarian. English and Russian summaries) **89g:65027**
Vassilevski, P. S. An optimal stabilization of the marching algorithm. **89i:65034**
Verde-Star, Luis Inverses of generalized Vandermonde matrices. **89e:65036**
Voevodin, A. V. Use of cellular operations in algorithms for the triangular factorization of matrices with partial choice of the leading element. (Russian) **89f:65037**
Wallach, Y. *see* **Kaur, D., 89h:65043**
Wieners, Ch. *see* **Lengauer, Thomas, 89g:65026**
Williams, F. W. (*with* Kennedy, David) Fast Gauss-Doolittle matrix triangulation. **89d:65032**
You, Zhao Yong (*with* Li, Lei) The computational complexity of triangular Toeplitz systems. (Chinese. English summary) **89h:65046**
Yousif, W. S. *see* **Evans, David J., 89d:65030**

Items with secondary classifications in 65F05

Abaffy, J. (*with* Galántai, Aurél) Conjugate direction methods for linear and nonlinear systems of algebraic conditions. **89e:65051**
Bekakos, M. P. *see* **Evans, David J., 89b:65328**
Bshouty, Nader H. *see* **Kaminski, Michael; et al., 89m:68061**
Bultheel, Adhemar On the convergence of Schur parameters for a Toeplitz matrix with a meromorphic symbol. **89f:30058**
Coleman, Thomas F. *see* **Li, Guang Ye, 89b:65333**
Davies, C. T. H. *see* **Rossi, Pietro; et al., 89b:81169**
Douglas, Craig C. (*with* Miranker, Willard L.) Some nontelescoping parallel algorithms based on serial multigrid/aggregation/disaggregation techniques. **89m:65031**
Eisenstat, S. C. (*with* Heath, M. T.; Henkel, C. S.; Romine, C. H.) Modified cyclic algorithms for solving triangular systems on distributed-memory multiprocessors. **89e:65169**
Erēmin, A. Yu. (*with* Zabolotnov, D. B.) ★ Минимизация заполнения в прямых методах исключения на параллельных ЭВМ. [Fill-in minimization in direct elimination methods on parallel computers] **89g:65177**
Evans, David J. (*with* Bekakos, M. P.) The solution of linear systems by the QIF algorithm on a wavefront array processor. **89b:65328**
Galántai, Aurél *see* **Abaffy, J., 89e:65051**
Gambill, Thomas N. (*with* Skeel, Robert D.) Logarithmic reduction of the wrapping effect with application to ordinary differential equations. **89a:65075**
Gao, Guang R. A pipelined solution method of tridiagonal linear equation systems. (*see* **89b:68010**)
Geist, George A. (*with* Romine, C. H.) *LU* factorization algorithms on distributed-memory multiprocessor architectures. **89d:65122**
Geroyannis, V. S. *see* **Valvi, F. N., 89i:15006**
Heath, M. T. (*with* Romine, C. H.) Parallel solution of triangular systems on distributed-memory multiprocessors. **89e:65168**
— *see also* **Eisenstat, S. C.; et al., 89e:65169**
Heinig, Georg Structure theory and fast inversion of Hankel striped matrices. I. **89c:15029**
Henkel, C. S. *see* **Eisenstat, S. C.; et al., 89e:65169**
Hu, Jie *see* **Li, Lei, 89i:68060**
Ipsen, Ilse C. F. Systolic algorithms for the parallel solution of dense symmetric positive-definite Toeplitz systems. (*see* **89j:65093**)
Jones, Michael C. (*with* Travis, C. H.) Bidiagonalization for linear inverse problems. **89b:65136**
Kaminski, Michael (*with* Kirkpatrick, David; Bshouty, Nader H.) Addition requirements for matrix and transposed matrix products. **89m:68061**
Kirkpatrick, David *see* **Kaminski, Michael; et al., 89m:68061**
Lepage, G. P. *see* **Rossi, Pietro; et al., 89b:81169**
Li, Guang Ye (*with* Coleman, Thomas F.) A parallel triangular solver for a distributed-memory multiprocessor. **89b:65333**
Li, Lei (*with* Hu, Jie) The complexity of sequential and parallel algorithms for the Vandermonde matrices. (Chinese. English summary) **89i:68060**
Michielse, Peter H. (*with* van der Vorst, Henk A.) Data transport in Wang's partition method. **89b:65334**
Miranker, Willard L. *see* **Douglas, Craig C., 89m:65031**
Ortega, James M. The ijk forms of factorization methods. I. Vector computers. **89d:65124**
— (*with* Romine, C. H.) The ijk forms of factorization methods. II. Parallel systems. **89d:65125**
Pan, V. Complexity of parallel matrix computations. **89d:68022**
— Computing the determinant and the characteristic polynomial of a matrix via solving linear systems of equations. **89j:15013**
Romine, C. H. *see* **Geist, George A., 89d:65122; Ortega, James M., 89d:65125; Heath, M. T., 89e:65168** *and* **Eisenstat, S. C.; et al., 89e:65169**
Rossi, Pietro (*with* Davies, C. T. H.; Lepage, G. P.) A comparison of a variety of matrix inversion algorithms for Wilson fermions on the lattice. **89b:81169**
Searls, Donald T. An algorithm for improved matrix inversion for Markov chain applications. **89j:60093**
Skeel, Robert D. *see* **Gambill, Thomas N., 89a:65075**
Sridhar, M. K. A new algorithm for parallel solution of linear equations. **89a:65205**
Swarztrauber, Paul N. Approximate cyclic reduction for solving Poisson's equation. **89b:65254**
Syavavko, M. S. Stable elimination methods in linear problems. (Russian. English summary) **89f:65149**
Tikhonov, A. N. On the problems with approximately specified information. **89e:65041**
Travis, C. H. *see* **Jones, Michael C., 89b:65136**
Trench, William F. A note on solving nearly triangular Toeplitz systems. **89b:15020**
— Toeplitz systems associated with the product of a formal Laurent series and a Laurent polynomial. **89c:15004**
Valvi, F. N. (*with* Geroyannis, V. S.) Analytic inverses and determinants for a class of matrices. **89i:15006**
van der Vorst, Henk A. *see* **Michielse, Peter H., 89b:65334**
Wise, David S. Parallel decomposition of matrix inversion using quadtrees. (*see* **89b:68010**)
Zabolotnov, D. B. *see* **Erēmin, A. Yu., 89g:65177**
Zellini, Paolo Optimal bounds for solving tridiagonal systems with preconditioning. **89k:68074**

65F10 Iterative methods for linear systems [see also 65N20]

Avdelas, G. (*with* de Pillis, J.; Hadjidimos, A.; Neumann, Michael) A guide to the acceleration of iterative methods whose iteration matrix is nonnegative and convergent. **89g:65028**
Axelsson, O. A restarted version of a generalized preconditioned conjugate gradient method. **89d:65033**
Barker, G. P. (*with* Yang, Shang Jun) Semi-iterative and iterative methods for singular M-matrices. **89d:65034**
Barragy, E. (*with* Carey, G. F.) A partitioning scheme and iterative solution for sparse bordered systems. **89h:65047**
Beauwens, Robert (*with* Bouzid, Ben Mustapha) Existence and conditioning properties of sparse approximate block factorizations. **89j:65033**
Bouzid, Ben Mustapha *see* **Beauwens, Robert, 89j:65033**
Bridger, Jacob *see* **Sidi, Avram, 89i:65038**
Buledza, A. V. Two-step variants of the Richardson iterative method. (Russian. English summary) **89h:65048**
Carey, G. F. *see* **Barragy, E., 89h:65047**
Chetverushkin, B. N. An “α-β”-iterative method. (Russian) **89b:65074**
Chin, R. C. Y. (*with* Manteuffel, Thomas A.) An analysis of block successive overrelaxation for a class of matrices with complex spectra. **89e:65037**
Chou, Arthur W. On the optimality of Krylov information. **89a:65051**
Codenotti, B. (*with* Favati, P.) Iterative methods for the parallel solution of linear systems. **89b:65075**
Douglas, Craig C. (*with* Miranker, Willard L.) Some nontelescoping parallel algorithms based on serial multigrid/aggregation/disaggregation techniques. **89m:65031**
D′yakonov, E. G. Some classes of saddle gradient methods. (Russian) **89c:65041**
Edelman, Alan *see* **Strang, Gilbert, 89a:65055**
Eiermann, Michael (*with* Marek, Ivo; Niethammer, Wilhelm) On the solution of singular linear systems of algebraic equations by semi-iterative methods. **89h:65049**
Evans, David J. (*with* Li, Chang Jun) Analysis of a symmetric extrapolated iterative method for solving linear systems. **89g:65029**
— (*with* Li, Chang Jun) Extrapolated Gauss-Seidel I and SOR methods for least-squares problems. **89g:65030**
Fang, Jing Long *see* **Wang, Neng Chao, 89h:65050**
Favati, P. *see* **Codenotti, B., 89b:65075**
Fel′dman, I. A. A variant of the double sweep method. (Russian) **89f:65038**
Galanin, M. P. Convergence and computational stability of the Richardson method in the presence of an inexact representation of the lower bound on the operator. (Russian) **89b:65076**
Galanis, S. (*with* Hadjidimos, A.; Noutsos, D.) On the equivalence of the k-step iterative Euler methods and successive overrelaxation (SOR) methods for k-cyclic matrices. **89j:65034**

Gladkiĭ, V. S. (*with* Ovsyannikova, L. B.) Probabilistic numerical methods for linear algebra and mathematical physics. (Russian) **89i:65035**

Go, Jong Bu *see* **Pak, Tae Je, 89a:65053**

Grandek, K. Accelerated iterative methods for elliptic partial differential equations. **89b:65077**

Hadjidimos, A. A survey of the iterative methods for the solution of linear systems by extrapolation, relaxation and other techniques. **89b:65078**

— *see also* **Avdelas, G.; et al., 89g:65028** *and* **Galanis, S.; et al., 89j:65034**

Han, Shih-Ping *see* **Lou, Gang, 89g:65034**

Haque, S. Selection of relaxation factors for generalised over relaxation method. **89b:65079**

Haviv, Moshe Aggregation/disaggregation methods for computing the stationary distribution of a Markov chain. **89f:65039**

Herzberger, J. Computational aspects of some iterative methods for bounding the inverse of a matrix. **89c:65042**

— On the efficiency of iterative methods for bounding the inverse matrix. **89g:65031**

— Explizite Schulz-Verfahren höherer Ordnung zur Approximation der inversen Matrix. [Explicit Schulz methods of higher order for the approximation of the inverse matrix] (Not in MR)

Hu, Guan Chu (*with* Tang, Jian Kang) The ATOR method for solving large systems of linear equations. (Chinese. English summary) **89k:65031**

— (*with* Tang, Jian Kang) Upper and lower error bound estimates for the SSOR method. (Chinese. English summary) **89m:65032**

Hu, Jia Gan Seven-diagonal and nine-diagonal SIP algorithms. **89a:65052**

Hughes-Hallett, A. J. Corrigenda: "The convergence of accelerated overrelaxation iterations" [Math. Comp. **47** (1986), no. 175, 219–223; MR 87g:65046]. **89d:65035**

Il'in, V. P. (*with* Kositsyna, L. K.) Iterative methods of incomplete factorization for solving block-tridiagonal systems. (Russian) **89b:65080**

— Incomplete factorization methods. **89g:65032**

Jin, Mao Yuan *see* **Zhu, Ben Ren; et al., 89j:65035**

Kaasschieter, E. F. A practical termination criterion for the conjugate gradient method. **89b:65081**

Karimova, D. Kh. A parallel variant of a relaxation method. (Russian. Tajiki summary) **89g:65033**

Khalil, Mohammed Local mode smoothing analysis of various incomplete factorization iterative methods. (*see* **89m:65007**)

Konyaev, S. I. *see* **Lebedev, V. I., 89b:65082**

Kositsyna, L. K. *see* **Il'in, V. P., 89b:65080**

Krishna, Lala B. *see* **Martins, M. Madalena, 89e:65038**

Lebedev, V. I. (*with* Konyaev, S. I.) ★ Численное исследование эффективности комбинированных итерационных методов. (Russian) [Numerical investigation of the efficiency of combined iterative methods] **89b:65082**

LeVeque, Randall J. (*with* Trefethen, Lloyd N.) Fourier analysis of the SOR iteration. **89i:65036**

Li, Chang Jun *see* **Evans, David J., 89g:65029** *and* **89g:65030**

Li, Zhi Lin A generalized conjugate method for solving a real skew-symmetric system of equations. (Chinese. English summary) **89i:65037**

Lou, Gang (*with* Han, Shih-Ping) A parallel projection method for solving generalized linear least-squares problems. **89g:65034**

Mandel, Jan Algebraic study of multigrid methods for symmetric, definite problems. **89d:65036**

Manteuffel, Thomas A. *see* **Chin, R. C. Y., 89e:65037**

Marek, Ivo *see* **Eiermann, Michael; et al., 89h:65049**

Martins, M. Madalena Vector norms in the study of the convergence of some iterative methods. (Portuguese. English summary) **89g:65035**

— (*with* Krishna, Lala B.) Some new results on the convergence of the SSOR and USSOR methods. **89e:65038**

Miller, D. F. The iterative solution of the matrix equation $XA + BX + C = 0$. **89g:65036**

Miranker, Willard L. *see* **Douglas, Craig C., 89m:65031**

Mora E., Héctor M. Characteristic, storing of a stiffness matrix and comparison of the conjugate gradient and Cholesky methods. (Spanish) **89m:65033**

Neumann, Michael *see* **Avdelas, G.; et al., 89g:65028**

Niethammer, Wilhelm *see* **Wild, Paul, 89a:65056** *and* **Eiermann, Michael; et al., 89h:65049**

Niki, Hiroshi *see* **Ohsaki, Ichi-ann, 89k:65032**

Noutsos, D. *see* **Galanis, S.; et al., 89j:65034**

Oertel, Klaus-Dieter (*with* Stüben, Klaus) Multigrid with ILU-smoothing: systematic tests and improvements. (*see* **89m:65007**)

Ohsaki, Ichi-ann (*with* Niki, Hiroshi) The accelerated SAOR method for large linear systems. **89k:65032**

Ortega, James M. *see* **Poole, Eugene L., 89b:65084**

Ovsyannikova, L. B. *see* **Gladkiĭ, V. S., 89i:65035**

Pak, Tae Je (*with* Go, Jong Bu) Several properties about stability of the pseudosolution and the normal solution of a noise equation of corrective value. (Korean. English summary) **89a:65053**

de Pillis, J. Tensor equivalents for solution of linear systems: a parallel algorithm. **89b:65083**

— *see also* **Avdelas, G.; et al., 89g:65028**

Polman, Ben Incomplete blockwise factorizations of (block) H-matrices. **89a:65054**

Poole, Eugene L. (*with* Ortega, James M.) Multicolor ICCG methods for vector computers. **89b:65084**

Robinson, G. K. A method of accelerating stationary iterative methods for solving linear systems. **89d:65037**

Saylor, Paul E. *see* **Smolarski, Dennis C., 89b:65085**

Sidi, Avram (*with* Bridger, Jacob) Convergence and stability analyses for some vector extrapolation methods in the presence of defective iteration matrices. **89i:65038**

Smolarski, Dennis C. (*with* Saylor, Paul E.) An optimum iterative method for solving any linear systems with a square matrix. **89b:65085**

Stickel, E. On a class of high order methods for inverting matrices. **89b:65086**

Strang, Gilbert (*with* Edelman, Alan) The Toeplitz-circulant eigenvalue problem $Ax = \lambda Cx$. **89a:65055**

Stüben, Klaus *see* **Oertel, Klaus-Dieter, (89m:65007)**

Tang, Jian Kang *see* **Hu, Guan Chu, 89k:65031** *and* **89m:65032**

Trefethen, Lloyd N. *see* **LeVeque, Randall J., 89i:65036**

Wachspress, E. L. Iterative solution of the Lyapunov matrix equation. (Not in MR)

Wang, Neng Chao (*with* Fang, Jing Long) A note on the accelerated overrelaxation method. (Chinese. English summary) **89h:65050**

Wild, Paul (*with* Niethammer, Wilhelm) Over- and underrelaxation for linear systems with weakly cyclic Jacobi matrices of index p. **89a:65056**

Yang, Chun Sen *see* **Zhu, Ben Ren; et al., 89j:65035**

Yang, Shang Jun *see* **Barker, G. P., 89d:65034**

Yeyios, A. K. An extension of the accelerated overrelaxation (AOR) theory for linear systems with Hermitian matrix. **89m:65034**

Zahar, R. V. M. Convergence of asymptotic staircase systems. **89a:65057**

Zeng, Wen Ping New criteria for convergence of SOR and AOR iterations. (Chinese. English summary) **89a:65058**

Zhang, Sheng Li *see* **Zhu, Ben Ren; et al., 89j:65035**

Zhang, Yin^2 The forward and backward AOR (FBAOR) method for the iterative solution of linear systems. (Chinese. English summary) **89i:65039**

— Convergence of the SAOR method. (Chinese. English summary) **89m:65035**

Zhao, Jin Xi The modified Kaczmarz method for solving linear systems. (Chinese. English summary) **89k:65033**

Zhu, Ben Ren (*with* Jin, Mao Yuan; Yang, Chun Sen; Zhang, Sheng Li) A class of universal iterative methods for solving systems of equations of the first kind. (Chinese. English summary) **89j:65035**

Zítko, Jan Two step extrapolation and optimum choice of relaxation factor of the extrapolated S.O.R. method. (Russian and Czech summaries) **89h:65051**

Items with secondary classifications in 65F10

Ahués, Mario A note on refining eigenelements of symmetric matrices. **89k:65034**

Aykanat, Cevdet (*with* Özgüner, Füsun; Ercal, Fikret; Sadayappan, Ponnuswamy) Iterative algorithms for solution of large sparse systems of linear equations on hypercubes. **89k:65050**

Bank, R. (*with* Dupont, Todd F.; Yserentant, Harry) The hierarchical basis multigrid method. **89b:65247**

Barlow, J. L. (*with* Nichols, N. K.; Plemmons, Robert J.) Iterative methods for equality-constrained least squares problems. **89h:65100**

Barry, J. M. (*with* Wachspress, E. L.) A method of parallel iteration based on polynomial correction. **89g:65176**

Bramble, James H. (*with* Pasciak, Joseph E.) New convergence estimates for multigrid algorithms. **89b:65234**

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— (*with* Pasciak, Joseph E.; Schatz, Alfred H.) The construction of preconditioners for elliptic problems by substructuring. III. **89e:65118**

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— (*with* Pasciak, Joseph E.) Corrigenda: "A preconditioning technique for indefinite systems resulting from mixed approximations of elliptic problems". **89m:65097b**

Brenner, Susanne C. An optimal-order multigrid method for P1 nonconforming finite elements. **89f:65119**

Davies, C. T. H. *see* **Rossi, Pietro; et al., 89b:81169**

Douglas, Craig C. (*with* Miranker, Willard L.) Constructive interference in parallel algorithms. **89b:65327**

Dupont, Todd F. *see* **Bank, R.; et al., 89b:65247**

Ercal, Fikret *see* **Aykanat, Cevdet; et al., 89k:65050**

Evans, David J. (*with* Yousif, W. S.) The solution of two-point boundary value problems by the alternating group explicit (age) method. **89m:34025**

Ford, William F. *see* **Smith, David Alexander; et al., 89j:65013a** *and* **89j:65013b**

Gorbenko, N. I. The method of fictitious components as a quadratic programming problem. (Russian) **89c:65131**

(Hadjidimos, A.) *see* **Iterative methods for the solution of linear systems,** (Not in MR)

Herzberger, J. Some aspects of iterative methods for bounding the inverse matrix. **89c:65063**

Hoppe, Ronald H. W. Multigrid algorithms for variational inequalities. **89b:65157**

Kang, Li Shan *see* **Xiao, You En, 89k:65129**

Kuo, C.-C. Jay (*with* Levy, Bernard C.; Musicus, Bruce R.) A local relaxation method for solving elliptic PDEs on mesh-connected arrays. **89b:65251**

— (*with* Levy, Bernard C.) A two-level four-color SOR method. **89k:65126**

Lee, David^2 Fast multiplication of a recursive block Toeplitz matrix by a vector and its application. **89a:65071**

Lepage, G. P. *see* **Rossi, Pietro; et al., 89b:81169**

Leung, A. Y. T. Inverse iteration for the quadratic eigenvalue problem. **89f:65041**

Levy, Bernard C. *see* **Kuo, C.-C. Jay; et al., 89b:65251** *and* **89k:65126**

Mayer, Günter On the speed of convergence of some iterative processes. **89h:65069**

Miekkala, Ulla (*with* Nevanlinna, Olavi) Sets of convergence and stability regions. **89i:65072**

— (*with* Nevanlinna, Olavi) Convergence of dynamic iteration methods for initial value problem. **89f:65076**

Miller, Valerie A. (*with* Neumann, Michael) Successive overrelaxation methods for solving the rank deficient linear least squares problem. **89b:65099**

Miranker, Willard L. *see* **Douglas, Craig C., 89b:65327**

Musicus, Bruce R. *see* **Kuo, C.-C. Jay; et al., 89b:65251**

Neumann, Michael *see* **Miller, Valerie A., 89b:65099**

Nevanlinna, Olavi *see* **Miekkala, Ulla, 89f:65076** *and* **89i:65072**

Nichols, N. K. *see* **Barlow, J. L.; et al., 89h:65100**

Özgüner, Füsun *see* **Aykanat, Cevdet; et al., 89k:65050**

Parter, Seymour V. Remarks on multigrid convergence theorems. **89a:65160**

Pasciak, Joseph E. *see* **Bramble, James H., 89b:65234; 89b:65260; 89e:65118; 89m:65097a** *and* **89m:65097b**

Plemmons, Robert J. *see* **Barlow, J. L.; et al., 89h:65100**

ossi, Pietro (*with* Davies, C. T. H.; Lepage, G. P.) A comparison of a variety of matrix inversion algorithms for Wilson fermions on the lattice. **89b:81169**
abel′fel′d, K. K. *see* **Zítko, Jan, 89g:65008**
adayappan, Ponnuswamy *see* **Aykanat, Cevdet; et al., 89k:65050**
chatz, Alfred H. *see* **Bramble, James H.; et al., 89e:65118**
idi, Avram *see* **Smith, David Alexander; et al., 89j:65013a** *and* **89j:65013b**
jogren, J. A. Iterative methods in the solution of dependability models. **89m:60174**
mith, David Alexander (*with* Ford, William F.; Sidi, Avram) Extrapolation methods for vector sequences. **89j:65013a**
— (*with* Ford, William F.; Sidi, Avram) Correction to: "Extrapolation methods for vector sequences". **89j:65013b**
pekreijse, Stefan ★ Multigrid solution of the steady Euler equations. **89i:65109**
erfürth, R. Multilevel algorithms for mixed problems. II. Treatment of the mini-element. **89a:65175**
Vachspress, E. L. *see* **Barry, J. M., 89g:65176**
iao, You En (*with* Kang, Li Shan) The convergence rate of the Schwarz algorithms. (Chinese. English summary) **89k:65129**
u, Jin Chao *see* **Bramble, James H.; et al., 89b:65260**
avushkin, V. I. Acceleration of convergence of a method for simple iteration in problems of transport theory. (Russian) **89h:82063**
ousif, W. S. *see* **Evans, David J., 89m:34025**
serentant, Harry *see* **Bank, R.; et al., 89b:65247**
akharov, G. K. Iterative methods in real arithmetic. (Russian) **89h:65067**
ítko, Jan (*with* Sabel′fel′d, K. K.) ★ Ускорение сходимости итерационных методов на основе преобразования спектрального параметра и экстраполяции. (Russian) [Acceleration of the convergence of iterative methods on the basis of a transformation of the spectral parameter and extrapolation] **89g:65008**

tems listed otherwise than by author

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  Iterative methods for the solution of linear systems ★ Iterative methods for the solution of linear systems. (Not in MR)

5F15 Eigenvalues, eigenvectors

hués, Mario A note on refining eigenelements of symmetric matrices. **89k:65034**
— *see also* **Chatelin, Françoise; et al., 89c:65044**
lefeld, G. Rigorous error bounds for singular values of a matrix using the precise scalar product. **89b:65087**
— Berechenbare Fehlerschranken für ein Eigenpaar beim verallgemeinerten Eigenwertproblem. (English and Russian summaries) [Computable error bounds for an eigenpair in the generalized eigenvalue problem] **89b:65088**
lt, René Un algorithme simple et efficace de calcul de valeurs propres. (English summary) [An efficient and simple algorithm for computation of eigenvalues] **89b:65089**
rbenz, Peter (*with* Gander, Walter; Golub, Gene H.) Restricted rank modification of the symmetric eigenvalue problem: theoretical considerations. **89h:65052**
ai, Zhao Jun Note on the quadratic convergence of Kogbetliantz's algorithm for computing the singular value decomposition. **89k:65035**
ernstein, Herbert J. (*with* Goldstein, Max) Optimizing Givens' algorithm for multiprocessors. **89b:65090**
ohte, Z. A posteriori error bounds for eigensystems of matrices. **89g:65037**
oley, Daniel (*with* Golub, Gene H.) A survey of matrix inverse eigenvalue problems. **89m:65036**
unse-Gerstner, Angelika Eigenvalue algorithms for matrices with special structure. **89b:65091**
yers, Ralph A bisection method for measuring the distance of a stable matrix to the unstable matrices. **89k:65036**
ao, Zhi Hao Solving large sparse linear and quadratic generalized eigenvalue problems. **89a:65059**
— Residual bounds on approximate deflation pair systems of a generalized eigenvalue problem. (Chinese. English summary) **89a:65060**
hang, H. Y. (*with* Utku, S.; Salama, M.) Eigenvalue computation of large symmetric tridiagonal matrices on concurrent processors. **89c:65043**
harlier, J.-P. (*with* Vanbegin, M.; Van Dooren, Paul) On efficient implementations of Kogbetliantz's algorithm for computing the singular value decomposition. **89b:65092**
hatelin, Françoise (*with* Ahués, Mario; Telias, M.) Computing a set of eigenvalues. **89c:65044**
— ★ Valeurs propres de matrices. (French) [Eigenvalues of matrices] **89g:65038**
hu, Moody T. A note on the homotopy method for linear algebraic eigenvalue problems. **89g:65039**
ai, Hua Inverse eigenvalue problems for real symmetric banded matrices. (Chinese. English summary) **89m:65037**
— A class of inverse quadratic eigenvalue problems. (Chinese. English summary) **89m:65038**
ong, Xun *see* **Huang, Wen Zhen; et al., 89k:65037**
riedland, Shmuel (*with* Nocedal, J.; Overton, Michael L.) The formulation and analysis of numerical methods for inverse eigenvalue problems. **89c:65045**
uhrmann, Daniel R. An algorithm for subspace computation, with applications in signal processing. **89m:65039**
— An algorithm for subspace computation, with applications in signal processing. **89f:65040**
usco, Giorgio (*with* Zecca, V.) Applications of Newton's method to some numerical problems in matrix theory. **89g:65040**
ambolati, Giuseppe (*with* Pini, Giorgio; Sartoretto, Flavio) An improved iterative optimization technique for the leftmost eigenpairs of large symmetric matrices. **89g:65041**
ander, Walter *see* **Arbenz, Peter; et al., 89h:65052**
oldstein, Max *see* **Bernstein, Herbert J., 89b:65090**
olub, Gene H. *see* **Arbenz, Peter; et al., 89h:65052** *and* **Boley, Daniel, 89m:65036**
Gulin, A. V. (*with* Yakovleva, S. A.) A modified method of parabolas for determining the eigenvalues of a tridiagonal matrix with nonlinear occurrence of the spectral parameter. (Russian) **89b:65093**
Haegemans, Ann *see* **Van Huffel, Sabine; et al., 89c:65051**
Haftka, Raphael T. *see* **Murthy, Durbha V., 89g:65044**
He, Chun Yang (*with* Xiong, Xi Wen) The depression method for the second kind inverse eigenvalue problem of symmetric tridiagonal matrices. (Chinese. English summary) **89d:65038**
— Reduction of ill-conditioned eigenvectors of an unsymmetric matrix. (Chinese. English summary) **89i:65040**
Huang, Bu Yu *see* **Huang, Wen Zhen; et al., 89k:65037**
Huang, Wen Zhen (*with* Huang, Bu Yu; Dong, Xun) A matrix perturbation method in the eigenvalue problem for nonsymmetric systems. (Chinese. English summary) **89k:65037**
Ikramov, Kh. D. Numerical solution of matrix equations, and a symplectic matrix algebra. (Russian) **89c:65046**
Jai, Zhao Jun A modified Lanczos method for approximating eigenvalues using residual matrices. (Chinese. English summary) **89i:65041**
Jankovic, M. S. Analytical solutions for the *n*th derivatives of eigenvalues and eigenvectors for a nonlinear eigenvalue problem. **89k:65038**
Jiang, Er Xiong An estimate of the difference between a diagonal element and the corresponding eigenvalue of a symmetric tridiagonal matrix. **89c:65047**
— The inverse eigenvalue problem for a special class of matrices. (Chinese. English summary) **89h:65053**
Jin, Zhi Ying *see* **Lian, Qing Rong, 89e:65040**
Karczewski, W. Inverse eigenvalue problem for periodic block Jacobi matrices. **89d:65039**
Khakimova, T. Kh. Calculation of eigenvalues and eigenfunctions by the method of spherical harmonics. (Russian) (*see* **89a:00016**)
Khazanov, V. B. Application of a method of simultaneous iterations for λ-matrices. (Russian) **89a:65061**
— *see also* **Kublanovskaya, V. N., 89c:65048**
Knyazev, Andreĭ Vladimirovich (*with* Lebedev, V. I.) Estimates for convergence and analysis of the optimality of iterative methods for the simultaneous computation of several eigenvectors. (Russian) **89b:65094**
— Methods for the derivation of some estimates in a symmetric eigenvalue problem. (Russian) **89d:65040**
Kublanovskaya, V. N. (*with* Khazanov, V. B.) Deflation in spectral problems for matrix pencils. (Russian) **89c:65048**
Kuczyński, Jacek On the optimal solution of large eigenpair problems. **89a:65062**
Lebedev, V. I. *see* **Knyazev, Andreĭ Vladimirovich, 89b:65094**
Lenard, Christopher Iterative methods for eigenproblems. **89e:65039**
Leung, A. Y. T. Inverse iteration for the quadratic eigenvalue problem. **89f:65041**
Li, Xue Mei A sufficient condition for the convergence of the Rayleigh quotient iteration (RQI) method for the computation of eigenvalues of matrices. (Chinese. English summary) **89k:65039**
Lian, Qing Rong An algorithm for finding eigenvalues of real normal matrices. (Chinese. English summary) **89b:65095**
— (*with* Jin, Zhi Ying) A new algorithm for computing eigenvalues of skew-symmetric matrices. (Chinese. English summary) **89e:65040**
Meyer, Arnd ★ Modern algorithms for large sparse eigenvalue problems. **89g:65042**
Meyer, Carl D. (*with* Stewart, G. W.) Derivatives and perturbations of eigenvectors. **89g:65043**
Miller, H. G. (*with* Steenkamp, M. C.; Wright, C. J.) A two-step iterative block Lanczos algorithm for a dominant eigenspan. **89b:65096**
Miminis, George S. (*with* Paige, Chris C.) Implicit shifting and double steps in QR-like algorithms. **89a:65063**
Murthy, Durbha V. (*with* Haftka, Raphael T.) Approximations to eigenvalues of modified general matrices. **89g:65044**
Nocedal, J. *see* **Friedland, Shmuel; et al., 89c:65045**
Overton, Michael L. *see* **Friedland, Shmuel; et al., 89c:65045**
Paige, Chris C. *see* **Miminis, George S., 89a:65063**
Panev, S. A particular problem concerning the eigenvalues of a linear operator. (Bulgarian. English and Russian summaries) **89g:65045**
Pham Van At A class of algorithms for determining the maximum eigenvalue and corresponding eigenvector of a nonnegative irreducible matrix. (Russian) **89f:65042**
Pini, Giorgio *see* **Gambolati, Giuseppe; et al., 89g:65041**
Pugachev, B. P. Some applications of the spectral decomposition of matrices. (Russian) **89b:65097**
Saan, T. A regularized iterative method for finding the eigenvalues and eigenvectors of a symmetric matrix. (Russian. English summary) **89c:65049**
Salama, M. *see* **Chang, H. Y.; et al., 89c:65043**
Sartoretto, Flavio *see* **Gambolati, Giuseppe; et al., 89g:65041**
Shao, Zhi An *see* **Zheng, Zhao Bo, 89f:65045**
Simpson, A. Approximations in Kron's eigenvalue method. **89a:65064**
Sobyanin, A. V. Solution of an eigenvalue problem for symmetric matrices of large order. (Russian) **89h:65054**
Soriano, H. L. (*with* Venâncio Filho, F.) On Rutishauser's modified method for computing the eigenvalues of real tridiagonal symmetric matrices. **89c:65050**
Steenkamp, M. C. *see* **Miller, H. G.; et al., 89b:65096**
Stewart, G. W. *see* **Meyer, Carl D., 89g:65043**
Sun, Ji Guang The stability analysis of the solutions of inverse eigenvalue problems. **89a:65065**
— Least-squares solutions of a class of inverse eigenvalue problems. (Chinese. English summary) **89a:65066**
Telias, M. *see* **Chatelin, Françoise; et al., 89c:65044**
Trench, William F. Numerical solution of the eigenvalue problem for symmetric rationally generated Toeplitz matrices. **89f:65043**
Utku, S. *see* **Chang, H. Y.; et al., 89c:65043**
Valeev, K. G. ★ Расщепление спектра матриц. (Russian) [Splitting of matrix spectra] **89f:65044**
Vanbegin, M. *see* **Charlier, J.-P.; et al., 89b:65092**

Vandewalle, Joos *see* **Van Huffel, Sabine; et al., 89c:65051**

Van Dooren, Paul *see* **Charlier, J.-P.; et al., 89b:65092**

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Vashchenko, T. A. Reduction of a symmetric linear matrix pencil to a band-step form and the computation of its eigenvalues. (Russian) **89d:65041**

Venâncio Filho, F. *see* **Soriano, H. L., 89c:65050**

Wilkinson, J. H. Eigenvalue problems. **89d:65042**

Wright, C. J. *see* **Miller, H. G.; et al., 89b:65096**

Xiong, Xi Wen *see* **He, Chun Yang, 89d:65038**

Yakovleva, S. A. *see* **Gulin, A. V., 89b:65093**

Ye, Qiang A class of iterative algorithms for solving inverse eigenvalue problems. (Chinese. English summary) **89b:65098**

Yu, Chong Hua Convergence of eigenvalues in the natural order for the QL algorithm applied to symmetric tridiagonal matrices. (Chinese. English summary) **89k:65040**

Zecca, V. *see* **Fusco, Giorgio, 89g:65040**

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Zhang, Yin^2 Convergence of the AOR method for solving eigenvalue problems. (Chinese. English summary) **89k:65041**

Zheng, Zhao Bo An efficient method for obtaining the eigenvectors of a ring system. **89c:65052**

— (*with* Shao, Zhi An) An efficient technique for obtaining eigenvectors of a Hamiltonian in a basis of nonorthogonal orbitals. **89f:65045**

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Arbenz, Peter (*with* Golub, Gene H.) On the spectral decomposition of Hermitian matrices modified by low rank perturbations with applications. **89c:15028**

Auchmuty, Giles Variational principles for eigenvalues of nonsymmetric matrices. **89m:49081**

Beattie, Christopher (*with* Fox, David W.) Schur complements and the Weinstein-Aronszajn theory for modified matrix eigenvalue problems. **89i:49029**

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Bhatia, Rajendra The use of multilinear algebra in proving perturbation inequalities for matrices. **89c:15023**

Bridger, Jacob *see* **Sidi, Avram, 89i:65038**

Bulgakov, A. Ya. (*with* Godunov, S. K.) Circular dichotomy of a matrix spectrum. **89m:15005**

Chang, H. Y. (*with* Utku, S.; Salama, M.; Rapp, D.) A parallel Householder tridiagonalization stratagem using scattered row decomposition. **89c:65143**

— *see also* **Utku, S.; et al., (89b:68010)**

Chou, Arthur W. On the optimality of Krylov information. **89a:65051**

De Mari, Filippo (*with* Shayman, Mark A.) Generalized Eulerian numbers and the topology of the Hessenberg variety of a matrix. **89i:05009**

Fox, David W. *see* **Beattie, Christopher, 89i:49029**

Godunov, S. K. *see* **Bulgakov, A. Ya., 89m:15005**

Golub, Gene H. *see* **Arbenz, Peter, 89c:15028**

Knyazev, Andreĭ Vladimirovich An error estimate for the approximation by the Rayleigh-Ritz method to the invariant subspace that corresponds to nearby eigenvalues. (Russian) (*see* **89m:65005**)

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Liu, Kam Moon (*with* Ortiz, E. L.) Tau method approximation of differential eigenvalue problems where the spectral parameter enters nonlinearly. **89a:65124**

Moss, William F. (*with* Smith, Philip W.; Ward, Joseph D.) Nonlinear eigenvalue approximation. **89g:65076**

Ortiz, E. L. *see* **Liu, Kam Moon, 89a:65124**

Rapp, D. *see* **Chang, H. Y.; et al., 89c:65143** *and* **Utku, S.; et al., (89b:68010)**

Rudraiah, N. *see* **Shivakumar, P. N.; et al., 89a:47019**

Salama, M. *see* **Chang, H. Y.; et al., 89c:65143** *and* **Utku, S.; et al., (89b:68010)**

Sameh, Ahmed *see* **Berry, M. V., (89b:68010)**

Shayman, Mark A. *see* **De Mari, Filippo, 89i:05009**

Shivakumar, P. N. (*with* Williams, J. J.; Rudraiah, N.) Eigenvalues for infinite matrices. **89a:47019**

Sidi, Avram (*with* Bridger, Jacob) Convergence and stability analyses for some vector extrapolation methods in the presence of defective iteration matrices. **89i:65038**

Smith, Philip W. *see* **Moss, William F.; et al., 89g:65076**

Trefethen, Lloyd N. (*with* Trummer, Manfred R.) An instability phenomenon in spectral methods. **89a:65139**

Trench, William F. Characteristic polynomials of symmetric rationally generated Toeplitz matrices. **89b:47040**

Trummer, Manfred R. *see* **Trefethen, Lloyd N., 89a:65139**

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— *see also* **Chang, H. Y.; et al., 89c:65143**

Ward, Joseph D. *see* **Moss, William F.; et al., 89g:65076**

Williams, J. J. *see* **Shivakumar, P. N.; et al., 89a:47019**

Ye, Qiang The unsolvability almost everywhere of inverse eigenvalue problems for Hermitian matrices. (Chinese. English summary) **89e:15017**

65F20 Overdetermined systems, pseudoinverses

Ambrož, Luděk The use of pseudo-inverse matrices in cross-impact methods. (Czech. English summary) **89a:65067**

Benson, Maurice W. (*with* Frederickson, Paul O.) Fast pseudo-inverse algorithms on hypercubes. **89g:65046**

Blyumin, S. L. (*with* Denisenko, Yu. I.; Milovidov, S. P.) On the investigation and solution of integer systems of linear equations. (Russian) **89h:65055**

Chamberlain, R. M. (*with* Powell, M. J. D.) *QR* factorization for linear least-squares problems on a hypercube multiprocessor. **89k:65042**

Chen, Yong Lin Computing the generalized inverses of a matrix by modification methods. (Chinese. English summary) **89c:65053**

Denisenko, Yu. I. *see* **Blyumin, S. L.; et al., 89h:65055**

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Frederickson, Paul O. *see* **Benson, Maurice W., 89g:65046**

Hansen, Per Christian The truncated SVD as a method for regularization. **89a:65068**

Higham, Nicholas J. The symmetric Procrustes problem. **89g:65047**

Leonov, A. S. The method of a minimal pseudoinverse matrix. (Russian) **89g:65048**

Miller, Valerie A. (*with* Neumann, Michael) Successive overrelaxation methods for solving the rank deficient linear least squares problem. **89b:65099**

Milovidov, S. P. *see* **Blyumin, S. L.; et al., 89h:65055**

Mureşan, Viorica The successive approximation method for some integral equations of Volterra type with deviating argument. (Romanian. English summary) **89g:65049**

Neumann, Michael *see* **Miller, Valerie A., 89b:65099**

Powell, M. J. D. *see* **Chamberlain, R. M., 89k:65042**

Rader, Charles M. (*with* Steinhardt, Allan O.) Hyperbolic Householder transforms. **89m:65040**

Shi, Ji Lin (*with* Shi, Xiao Fa) Two iterative methods for computing generalized inverses of matrices. (Chinese. English summary) **89d:65043**

Shi, Xiao Fa *see* **Shi, Ji Lin, 89d:65043**

Steinhardt, Allan O. *see* **Rader, Charles M., 89m:65040**

Thiran, J.-P. (*with* Thiry, S.) Strict Chebyshev approximation for general systems of linear equations. **89b:65100**

Thiry, S. *see* **Thiran, J.-P., 89b:65100**

Tikhonov, A. N. On the problems with approximately specified information. **89e:65041**

Vandewalle, Joos *see* **Van Huffel, Sabine, 89b:65101** *and* **89g:65050**

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Boyarintsev, Yu. E. Representation of the solutions of a system of linear algebraic equations by means of generalized inverse matrices. (Russian) **89b:15004**

Eiermann, Michael (*with* Marek, Ivo; Niethammer, Wilhelm) On the solution of singular linear systems of algebraic equations by semi-iterative methods. **89h:65049**

Haegemans, Ann *see* **Van Huffel, Sabine; et al., 89c:65051**

Lamond, Bernard F. An efficient factorization for the group inverse. **89b:65071**

Marek, Ivo *see* **Eiermann, Michael; et al., 89h:65049**

Niethammer, Wilhelm *see* **Eiermann, Michael; et al., 89h:65049**

Parlett, B. N. *see* **Schreiber, Robert, 89c:65040**

Schreiber, Robert (*with* Parlett, B. N.) Block reflectors: theory and computation. **89c:65040**

Sun, Ji Guang Perturbation of angles between linear subspaces. **89a:15025**

— Sensitivity analysis of zero singular values and multiple singular values. **89j:15018**

Tůma, Miroslav A note on direct methods for approximations of sparse Hessian matrices. (Russian and Czech summaries) **89e:65023**

Vandewalle, Joos *see* **Van Huffel, Sabine; et al., 89c:65051**

Van Huffel, Sabine (*with* Vandewalle, Joos; Haegemans, Ann) An efficient and reliable algorithm for computing the singular subspace of a matrix, associated with its smallest singular values. **89c:65051**

65F25 Orthogonalization

Nielsen, Hans Bruun *see* **Zlatev, Zahari, 89e:65042**

Qiao, San Zheng Recursive least squares algorithm for linear prediction problems. **89f:65046**

Qiu, Yong Ping A method of orthogonalization of congruent transformations. (Chinese. English summary) **89g:65051**

Rader, Charles M. (*with* Steinhardt, Allan O.) Hyperbolic Householder transforms. **89f:65047**

Steinhardt, Allan O. *see* **Rader, Charles M., 89f:65047**

Van Loan, Charles A block QR factorization scheme for loosely coupled systems of array processors. (*see* **89b:00029**)

Zlatev, Zahari (*with* Nielsen, Hans Bruun) Solving large and sparse linear least-squares problems by conjugate gradient algorithms. **89e:65042**

Items with secondary classifications in 65F25

George, Alan (*with* Liu, Joseph W. H.; Ng, Esmond) A data structure for sparse *QR* and *LU* factorizations. **89g:65057**

Liu, Joseph W. H. Equivalent sparse matrix reordering by elimination tree rotations. **89c:65060**

— *see also* **George, Alan; et al., 89g:65057**

Ng, Esmond *see* **George, Alan; et al., 89g:65057**

Van Loan, Charles A block *QR* factorization scheme for loosely coupled systems of array processors. (*see* **89j:65093**)

65F30 Other matrix algorithms

Aitchison, P. W. *see* **Krolman, N. G. D., 89g:65054**

Bailey, David H. Extra high speed matrix multiplication on the Cray-2. (Not in MR)

Batyrkanov, M. Sh. *see* **Lange, È. G., 89h:65058**

Beelen, Th. G. J. (*with* Van Dooren, Paul) An improved algorithm for the computation of Kronecker's canonical form of a singular pencil. **89h:65056**

– (*with* Van Dooren, Paul) A pencil approach for embedding a polynomial matrix into a unimodular matrix. **89b:65102**
Bini, D. (*with* Pan, V.) Efficient algorithms for the evaluation of the eigenvalues of (block) banded Toeplitz matrices. **89c:65054**
Bojańczyk, A. (*with* Brent, Richard P.; Van Dooren, Paul; de Hoog, F.) Downdating the Cholesky factorization. **89i:65042**
Bolz, Heinrich (*with* Niethammer, Wilhelm) On the evaluation of matrix functions given by power series. **89c:65055**
Brent, Richard P. *see* **Bojańczyk, A.; et al., 89i:65042**
Bultheel, Adhemar Triangular decomposition of Toeplitz and related matrices: a guided tour in the algorithmic aspects. **89m:65041**
Codenotti, B. (*with* Lotti, G.) A fast algorithm for the division of two polynomial matrices. (Not in MR)
Coleman, Thomas F. (*with* Pothen, Alex) The null space problem. II. Algorithms. **89i:65043**
Cvetković, Ljiljana *see* **Herceg, Dragoslav, 89g:65052**
Dai, Hua Construction of real symmetric band matrices from spectral data. (Chinese. English summary) **89m:65042**
Davidson, Edward S. *see* **Davis, Timothy A., 89k:65043**
Davis, Timothy A. (*with* Davidson, Edward S.) Pairwise reduction for the direct, parallel solution of sparse, unsymmetric sets of linear equations. **89k:65043**
De Moor, Bart (*with* Vandewalle, Joos) An adaptive singular value decomposition algorithm based on generalized Chebyshev recursions. **89e:65043**
Drauschke, Gabriele (*with* Tasche, Manfred) Exact deconvolution using number-theoretic transforms. **89i:65044**
Eijkhout, Victor L. A general formulation for incomplete blockwise factorizations. (Not in MR)
Eldén, Lars Some remarks on algebraic inverse problems. (*see* **89m:65008**)
Evans, David J. (*with* Li, Chang Jun) Numerical aspects of the generalized CG-method applied to least squares problems. (German summary) **89m:65043**
Frumkin, M. A. Fast computations with Frobenius matrices. (Russian) **89c:65056**
Gasca, M. (*with* Martínez, José Javier) On the computation of multivariate confluent Vandermonde determinants and its applications. **89a:65069**
Godunov, S. K. (*with* Kirilyuk, O. P.) A new variant of equations for the parameters of orthogonal transformations for the deflation of bidiagonal matrices. (Russian) **89e:65044**
Goussis, Dimitrios A. *see* **Pearlstein, Arne J., 89h:65059**
Gover, M. J. C. The efficient solution of a set of linear equations with a near r-Toeplitz coefficient matrix. **89j:65037**
Hager, W. W. Bidiagonalization and diagonalization. **89c:65057**
Herceg, Dragoslav (*with* Cvetković, Ljiljana) A combination of relaxation methods and method of averaging functional corrections. **89g:65052**
Higham, Nicholas J. Computing a nearest symmetric positive semidefinite matrix. **89h:65057**
de Hoog, F. *see* **Bojańczyk, A.; et al., 89i:65042**
Ioseliani, A. N. (*with* Kilasoniya, N. A.) A method for solving a system of linear algebraic equations with increased accuracy. (Russian. English and Georgian summaries) **89g:65053**
Jen, J. F. *see* **Tewarson, R. P., 89h:65060**
Ježek, Jan An efficient algorithm for computing real powers of a matrix and a related matrix function. (Russian and Czech summaries) **89b:65103**
Kilasoniya, N. A. *see* **Ioseliani, A. N., 89g:65053**
Kincaid, David R. (*with* Oppe, Thomas C.) A parallel algorithm for the general LU factorization. (Not in MR)
Kirilyuk, O. P. *see* **Godunov, S. K., 89e:65044**
Krolman, N. G. D. (*with* Aitchison, P. W.) A new tearing method for finite element analysis. **89g:65054**
Kublanovskaya, V. N. Construction of the vector spectral characteristics of a polynomial matrix pencil. (Russian) **89c:65058**
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Li, Chang Jun *see* **Evans, David J., 89m:65043**
Lotti, G. *see* **Codenotti, B.**, (Not in MR)
Lu, Yi Jun A new parallel algorithm with WZ factorization. (Chinese. English summary) **89m:65044**
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Neumanová, Eva Solution of a stationary problem of reactor physics by the incomplete Choleski-conjugate gradient method. (Czech. English and Russian summaries) **89b:65106**
Ng, Kwok Choi *see* **Parlett, B. N., 89f:65048**
Niethammer, Wilhelm *see* **Bolz, Heinrich, 89c:65055**
Oppe, Thomas C. *see* **Kincaid, David R.**, (Not in MR)
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Pan, V. *see* **Bini, D., 89c:65054**
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Scharf, Louis L. *see* **Rialan, Christophe P., 89j:65038**
Shieh, L. S. *see* **Tsai, J. S. H.; et al., 89g:65055**
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Udilov, V. V. *see* **Nabivach, V. E., 89m:65045**
Vandewalle, Joos *see* **De Moor, Bart, 89e:65043**
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Datta, Karabi *see* **Datta, Biswa Nath, 89b:15027**
Denman, E. D. *see* **Hariche, K., 89b:15016**
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Kailath, Thomas *see* **Bistritz, Yuval, 89b:65067** *and* **Chun, J.; et al., 89e:65035**
Lev-Ari, H. *see* **Chun, J.; et al., 89e:65035**
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Lin, Fu Rong *see* **Chang, Shi Wei, 89c:15011**
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Tyrtyshnikov, E. E. Parallel algorithms in problems with Toeplitz matrices. (Russian) **89d:65126**
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Zaĭkova, E. A. *see* **Ikramov, Kh. D., 89c:15018**

65F35 Matrix norms, conditioning, scaling [see also 15A12, 15A60]

Boon, C. *see* **van der Houwen, P. J.; et al., 89b:65109**
Burmeister, W. *see* **Spedicato, E., 89g:65056**
Cao, Ya Yan *see* **Ouyang, Zi Xiang, 89j:65039**
Chan, Tony F. An optimal circulant preconditioner for Toeplitz systems. **89e:65046**
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Gautschi, Walter (*with* Inglese, Gabriele) Lower bounds for the condition number of Vandermonde matrices. **89b:65108**
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Hayden, T. L. (*with* Wells, Jim) Approximation by matrices positive semidefinite on a subspace. **89k:65047**
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Hu, Hui An algorithm for rescaling a matrix positive definite. **89d:65046**
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Hussaini, M. Y. *see* **Phillips, T. N.; et al., 89h:65063**
Inglese, Gabriele *see* **Gautschi, Walter, 89b:65108**
Jacobs, D. A. H. A generalization of the conjugate-gradient method to solve complex systems. **89h:65062**
Kolotilina, L. Yu. A family of explicit preconditionings. (Russian) **89c:65059**
Luo, Yuan Quan *see* **Zhang, Yu Ming^2, 89i:65047**
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Parter, Seymour V. *see* **Goldstein, Charles I., 89h:65061**
Phillips, T. N. (*with* Zang, T. A.; Hussaini, M. Y.) Preconditioners for the spectral multigrid method. **89h:65063**
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Shao, Wei Min *see* **Wang, Zhi Zhong, 89k:65048**
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Wubs, F. W. *see* **van der Houwen, P. J.; et al., 89b:65109**
Zang, T. A. *see* **Phillips, T. N.; et al., 89h:65063**
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Higham, Nicholas J. Computing a nearest symmetric positive semidefinite matrix. **89h:65057**
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Pasciak, Joseph E. *see* **Bramble, James H.; et al., 89m:65098**
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Schatz, Alfred H. *see* **Bramble, James H.; et al., 89m:65098**
Todd, M. J. *see* **Ip, Chi Ming, 89b:65124**
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65F40 Determinants

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65F50 Sparse matrices

Aykanat, Cevdet (*with* Özgüner, Füsun; Ercal, Fikret; Sadayappan, Ponnuswamy) Iterative algorithms for solution of large sparse systems of linear equations on hypercubes. **89k:65050**
Doi, Shun (*with* Harada, Norio) Tridiagonal factorization algorithm: a preconditioner for nonsymmetric system solving on vector computers. **89d:65048**
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George, Alan (*with* Liu, Joseph W. H.; Ng, Esmond) A data structure for sparse QR and LU factorizations. **89g:65057**
Gergely, J. Methods and algorithms for sparse symmetrical matrices. (Hungarian. English summary) **89k:65051**
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Leland, R. W. (*with* Rollett, J. S.) Evaluation of a parallel conjugate gradient algorithm. (*see* **89j:76004**)
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Items with secondary classifications in 65F50

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Cai, Da Yong (*with* Fan, Su Zhen) A component of NS-ITPACK—L101. (Chinese. English summary) **89h:65234**
Chatelin, Françoise ★ Valeurs propres de matrices. (French) [Eigenvalues of matrices] **89g:65038**
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Fan, Su Zhen *see* **Cai, Da Yong, 89h:65234**
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Nielsen, Hans Bruun *see* **Zlatev, Zahari, 89e:65042**
Peierls, Tim *see* **Gilbert, John R., 89f:65034**
Saltz, Joel Methods for automated problem mapping. (*see* **89j:65093**)
Tang, Jian Kang *see* **Hu, Guan Chu, 89k:65031**
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65F99 None of the above, but in this section

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Khristov, Nikolaĭ D. *see* **Petkov, Petko Khr.; et al., 89e:65048**
Konstantinov, Mikhail M. *see* **Petkov, Petko Khr.; et al., 89e:65048**
Kostlan, Eric Complexity theory of numerical linear algebra. **89i:65048**
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Krishnamoorthy, M. S. *see* **Kaltofen, Erich; et al., 89g:15004**
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Kuznetsov, Yuriĭ Alekseevich *see* **Agapov, V. K., 89h:65170**
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Nikolaev, E. S. *see* **Kucherov, A. B., 89b:65250**
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Périaux, Jacques *see* **Bègue, Catherine; et al., 89d:35191**
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Saunders, B. David *see* **Kaltofen, Erich; et al., 89g:15004**
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Tveito, Aslak *see* **Langtangen, Hans Petter, 89h:65181**
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65Gxx Error analysis

Godunov, S. K. The problem of guaranteed exactness in numerical methods of linear algebra. (Russian) **89g:65059**

65G05 Roundoff error

Feldstein, Alan (*with* Turner, P. R.) Overflow, underflow, and severe loss of significance in floating-point addition and subtraction. **89h:65065**
Marčiulaitis, Saulius Summation of real numbers in arithmetic with a floating point. A probability approach to determining the variance of absolute round-off error. (Russian. English and Lithuanian summaries) **89k:65056**
Olver, F. W. J. Error bounds for polynomial evaluation and complex arithmetic. **89h:65066**
Pan, Ching-Tsuan (*with* Sigmon, Kermit) A sharp bound for products of hyperbolic plane rotations. **89i:65050**
Sigmon, Kermit *see* **Pan, Ching-Tsuan, 89i:65050**
Stummel, F. Rundungsfehleranalyse numerischer Algorithmen. (English. German summary) [Rounding error analysis of numerical algorithms] **89d:65050**
Ton-That Long Numerical accuracy control in fixed-point arithmetic. **89k:65057**
Turner, P. R. *see* **Feldstein, Alan, 89h:65065**
Zakharov, G. K. Iterative methods in real arithmetic. (Russian) **89h:65067**

Items with secondary classifications in 65G05

Ahac, Alan A. (*with* Buoni, John J.; Olesky, D. D.) Stable LU factorization of H-matrices. **89a:65044**
Alefeld, G. Berechenbare Fehlerschranken für ein Eigenpaar beim verallgemeinerten Eigenwertproblem. (English and Russian summaries) [Computable error bounds for an eigenpair in the generalized eigenvalue problem] **89b:65088**
Bailey, David H. Extra high speed matrix multiplication on the Cray-2. (Not in MR)
Bales, L. A. Error estimates for single step fully discrete approximations for nonlinear second order hyperbolic equations. **89h:65146**
Buoni, John J. *see* **Ahac, Alan A.; et al., 89a:65044**
Chan, Tony F. (*with* Foulser, David E.) Effectively well-conditioned linear systems. **89k:65046**
Chang, Stephen F. (*with* Kennedy, William J.) Error-free computer solution of certain systems of linear equations. **89c:65036**
Dey, S. K. Effects of boundary conditions on numerical solution of implicit hyperbolic difference equations. **89g:65130**
Durán, R. Error analysis in L^p, $1 \leq p \leq \infty$, for mixed finite element methods for linear and quasi-linear elliptic problems. (French summary) **89i:65114**
Foulser, David E. *see* **Chan, Tony F., 89k:65046**
Gilyazov, S. F. (*with* Morozov, V. A.) Error estimation for the solution of systems of linear algebraic equations. (Russian) **89b:65113**
Gregory, R. T. (*with* Krishnamurthy, E. V.) ★ Безошибочные вычисления. (Russian) [Error-free calculations] **89j:65030**
Ikramov, Kh. D. Round-off errors, the growth of elements and duality relations in nonorthogonal methods for solving linear systems. (Russian) **89a:65047**
— *see also* **Gregory, R. T., 89j:65030**
Kennedy, William J. *see* **Chang, Stephen F., 89c:65036**
(Knyazev, Andreĭ Vladimirovich) *see* **Gregory, R. T., 89j:65030**
Krishnamurthy, E. V. *see* **Gregory, R. T., 89j:65030**
Morozov, V. A. *see* **Gilyazov, S. F., 89b:65113**
Mu, Mo Solving linear systems with the E-method and high accuracy arithmetic. (Chinese. English summary) **89i:65045**
Olesky, D. D. *see* **Ahac, Alan A.; et al., 89a:65044**
Olver, F. W. J. Error bounds for linear recurrence relations. **89e:65146**
Powell, M. J. D. On error growth in the Bartels-Golub and Fletcher-Matthews algorithms for updating matrix factorizations. **89c:65039**
Trefethen, Lloyd N. (*with* Trummer, Manfred R.) An instability phenomenon in spectral methods. **89a:65139**
Trummer, Manfred R. *see* **Trefethen, Lloyd N., 89a:65139**
Vicsek, M. Efficient error bounds for reducing an infinite interval in a singular boundary value problem. (Not in MR)
(Vignes, J.) *see* **Stochastic methods in round-off error analysis**, (Not in MR)
Werschulz, Arthur G. An information-based approach to ill-posed problems. **89b:65141**

Items listed otherwise than by author

Special issue:
  Stochastic methods in round-off error analysis ★ Stochastic methods in round-off error analysis. (Not in MR)
Stochastic methods in round-off error analysis ★ Stochastic methods in round-off error analysis. (Not in MR)

65G10 Interval and finite arithmetic

Alefeld, G. Über die Konvergenzordnung des Intervall-Newton-Verfahrens. (English summary) [On the order of convergence of the interval-Newton-method] **89b:65114**
Bandemer, Hans Specifying inaccuracy and uncertainty in evaluating functional relationships. **89g:65060**
Bao, P. (*with* Rokne, J. G.) Inclusion isotonicity of circular complex centered forms. **89b:65115**
— *see also* **Rokne, J. G., 89a:65077**
Bauch, Hartmut (*with* Jahn, K.-U.; Oelschlägel, Dieter; Süsse, H.; Wiebigke, Volkmar) ★ Intervallmathematik. (German) [Interval mathematics] **89c:65061**
Baumann, Eckart Optimal centered forms. **89f:65052**
Bazarov, M. V. *see* **Shokin, Yu. I.; et al., 89g:65061**
Chen, Xiao Jun *see* **You, Zhao Yong, 89k:65060**
Frommer, A. (*with* Straub, W.) Error-bounds for zeroes of polynomials using complex circular arithmetic. (German summary) **89k:65058**
Gambill, Thomas N. (*with* Skeel, Robert D.) Logarithmic reduction of the wrapping effect with application to ordinary differential equations. **89a:65075**

Gardeñes, Ernest (*with* Mielgo, Honorino) Modal interval analysis: functions. **89d:65051**
Herzberger, J. On the monotonicity of the interval versions of Schulz's method. II. (German summary) **89c:65062**
— Some aspects of iterative methods for bounding the inverse matrix. **89c:65063**
— On the monotonicity of higher-order interval iterations for bounding the inverse matrix. (German summary) **89k:65059**
— Zur Effizienz von intervallmäßigen Schulz-Verfahren höherer Ordnung. [On the efficiency of interval-like Schulz methods of higher order] (Not in MR)
Jahn, K.-U. *see* **Bauch, Hartmut; et al., 89c:65061**
Kokame, Hideki *see* **Mori, Takehiro, 89b:65116**
Kołacz, H. On inclusion algorithms and their optimality. **89h:65068**
Kolyada, A. A. (*with* Selyaninov, M. Yu.) Normalization of numbers in a modular number system. (Russian) **89e:65049**
Krawczyk, R. Conditionally isotone interval operators. (German summary) **89a:65076**
Marciniak, Andrzej On interval calculations in the N-body problem. **89f:65053**
Mayer, Günter On the speed of convergence of some iterative processes. **89h:65069**
— Zur Lösungseinschließung bei nichtlinearen Gleichungssystemen. [On enclosure of solutions in systems of nonlinear equations] (Not in MR)
Mielgo, Honorino *see* **Gardeñes, Ernest, 89d:65051**
Mikolás, M. Über eine Klasse verallgemeinerter Hilberträume mit Anwendungen. [On a class of generalized Hilbert spaces with applications] **89h:65070**
Moore, R. E. (*with* Shen, Zu He) Interval methods for operator equations. (*see* **89j:65011**)
Mori, Takehiro (*with* Kokame, Hideki) Some classes of convergent interval matrices. **89b:65116**
Novikov, Vyacheslav Aleksandrovich *see* **Shokin, Yu. I.; et al., 89g:65061**
Oelschlägel, Dieter Entwicklungstendenzen der Intervallmathematik—Grenzen und Möglichkeiten. [Developmental trends of interval mathematics—limits and possibilities] **89f:65054**
— *see also* **Bauch, Hartmut; et al., 89c:65061**
Rokne, J. G. (*with* Bao, P.) Interval Taylor forms. (German summary) **89a:65077**
— *see also* **Bao, P., 89b:65115**
Selyaninov, M. Yu. *see* **Kolyada, A. A., 89e:65049**
Shen, Zu He *see* **Moore, R. E., (89j:65011)**
Shokin, Yu. I. (*with* Novikov, Vyacheslav Aleksandrovich; Bazarov, M. V.) On the construction and package realization of interval methods for solving ordinary differential equations. **89g:65061**
Skeel, Robert D. *see* **Gambill, Thomas N., 89a:65075**
Straub, W. *see* **Frommer, A., 89k:65058**
Süsse, H. *see* **Bauch, Hartmut; et al., 89c:65061**
Szulc, T. On sign-decomposable and sign-indecomposable matrices. **89f:65055**
Walster, G. William Philosophy and practicalities of interval arithmetic. (*see* **89j:65011**)
Wiebigke, Volkmar *see* **Bauch, Hartmut; et al., 89c:65061**
You, Zhao Yong (*with* Chen, Xiao Jun) Interval iterative methods under partial ordering. I. **89k:65060**

Items with secondary classifications in 65G10

Adams, Ernst Wilhelm (*with* Cordes, D.; Lohner, Rudolf Josef) Enclosure of solutions of ordinary initial value problems and applications. **89i:65068**
(Albrycht, J.) *see* **Proceedings: Symposium on Interval & Fuzzy Mathematics, 89b:03006**
Alefeld, G. Rigorous error bounds for singular values of a matrix using the precise scalar product. **89b:65087**
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Angelov, R. On the wrapping effect. **89b:65164**
Bauch, Hartmut (*with* Wiebigke, Volkmar) On the inclusion of solutions of initial value problems for ordinary differential equations by means of interval analytical methods. **89g:65082**
Chen, Xiao Jun *see* **You, Zhao Yong, 89i:65058** *and* **89i:65059**
Cordes, D. *see* **Adams, Ernst Wilhelm; et al., 89i:65068**
Danilov, V. A. Two-sided and interval methods for solving linear ordinary differential equations with account taken of the phenomenon of the stiffness of systems. (Russian) **89b:65169**
Diamond, Phil Interval-valued random functions and the kriging of intervals. **89e:86002**
Dobner, H.-J. Bounds for the solution of hyperbolic problems. (German summary) **89a:65135**
Grossmann, Ch. Monotone discretization of two-point boundary value problems and related numerical methods. **89g:65102**
Hansen, E. R. An overview of global optimization using interval analysis. (*see* **89j:65011**)
Jahn, K.-U. Enclosure functions for the solutions of initial value problems. **89h:65111**
Jiang, Chung Li Sufficient condition for the asymptotic stability of interval matrices. **89b:93094**
Kirchner, R. (*with* Kulisch, U.) Fast and accurate computation of sums and inner products. **89h:65235**
Kulisch, U. The development of computer arithmetic. (*see* **89a:65005**)
— *see also* **Kirchner, R., 89h:65235**
Lanford, Oscar E., III Computer-assisted proofs in analysis. **89d:58095**
Lehmann, Reinhard A computable finite element interpolation error bound in the uniform metric. **89k:65137**
Lodwick, Weldon A. The use of interval arithmetic in uncovering structure of linear systems. (*see* **89j:65011**)
Lohner, Rudolf Josef *see* **Adams, Ernst Wilhelm; et al., 89i:65068**
Mascari, Gianfranco (*with* Miola, Alfonso) On the integration of numeric and algebraic computations. **89k:68098**
Miola, Alfonso *see* **Mascari, Gianfranco, 89k:68098**
Monsi, M. (*with* Wolfe, M. A.) An algorithm for the simultaneous inclusion of real polynomial zeros. **89b:65118**
Neumaier, A. The enclosure of solutions of parameter-dependent systems of equations. (*see* **89j:65011**)
— An existence test for root clusters and multiple roots. **89j:65028**
— *see also* **Shen, Zu He, 89e:65052**
Olver, F. W. J. Error bounds for polynomial evaluation and complex arithmetic. **89h:65066**
Ratschek, Helmut (*with* Rokne, J. G.) Efficiency of a global optimization algorithm. **89g:65080**
— Some recent aspects of interval algorithms for global optimization. (*see* **89j:65011**)
Rokne, J. G. *see* **Ratschek, Helmut, 89g:65080**
Roos, H.-G. The Rothe method and monotone discretization for parabolic equations. **89e:65091**
Shen, Zu He (*with* Neumaier, A.) A note on Moore's interval test for zeros of nonlinear systems. (German summary) **89e:65052**
Szabó, Zoltán István Combined iteration method for solving equations. **89c:65064**
Ton-That Long Numerical accuracy control in fixed-point arithmetic. **89k:65057**
Weissinger, Johannes An enclosure method for differential equations. **89a:65123**
Wiebigke, Volkmar *see* **Bauch, Hartmut, 89g:65082**
(Wiśniewski, Henryk) *see* **Proceedings: Symposium on Interval & Fuzzy Mathematics, 89b:03006**
Wolfe, M. A. *see* **Monsi, M., 89b:65118**
You, Zhao Yong (*with* Chen, Xiao Jun) A two-sided interval iterative method for the finite-dimensional nonlinear systems. **89i:65058**
— (*with* Chen, Xiao Jun) A continuation-interval method for nonlinear systems. **89i:65059**
Yugaĭ, S. A. Guaranteed two-sided approximation of real functions by linear splines on a computer. (Russian) **89b:65036**

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  Symposium on Interval & Fuzzy Mathematics ★ Proceedings of the Second Polish Symposium on Interval & Fuzzy Mathematics. **89b:03006**
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  Interval & Fuzzy Mathematics ★ Proceedings of the Second Polish Symposium on Interval & Fuzzy Mathematics. **89b:03006**

65G99 None of the above, but in this section

Babuška, I. Information-based numerical practice. **89f:65056**
Demmel, James W. The probability that a numerical analysis problem is difficult. **89g:65062**
Glukhova, L. A. A binary-decimal multiplication method for matrix structures. (Russian) **89h:65071**
Robertazzi, T. G. (*with* Schwartz, S. C.) Best "ordering" for floating-point addition. **89b:65117**
Schmidt, Hans Natürliche Darstellungssysteme und Konvertierungsfunktionen der *PT*-Quotientenringe. [Natural representation systems and conversion functions of *PT*-quotient rings] **89j:65041**
Schwartz, S. C. *see* **Robertazzi, T. G., 89b:65117**
Tartar, L. Sur un lemme d'équivalence utilisé en analyse numérique. (English summary) [An equivalence lemma used in numerical analysis] **89k:65061**

Items with secondary classifications in 65G99

Buning, Pieter G. Sources of error in the graphical analysis of CFD results. (Not in MR)
Clenshaw, C. W. (*with* Turner, P. R.) The symmetric level-index system. **89k:65025**
Demmel, James W. (*with* Kågström, Bo) Accurate solutions of ill-posed problems in control theory. **89b:65131**
Gärtel, Ute ★ Fehlerabschätzungen für vektorwertige Randwertaufgaben zweiter Ordnung, insbesondere für Probleme aus der chemischen Reaktions-Diffusions-Theorie. (German) [Error estimates for vector-valued boundary value problems of second order, particularly for problems of chemical reaction-diffusion theory] **89k:65122**
Godunov, S. K. (*with* Kirilyuk, O. P.) A new variant of equations for the parameters of orthogonal transformations for the deflation of bidiagonal matrices. (Russian) **89e:65044**
Kågström, Bo *see* **Demmel, James W., 89b:65131**
Kirilyuk, O. P. *see* **Godunov, S. K., 89e:65044**
Mitchenko, A. D. Deflation of tridiagonal symmetric and bidiagonal matrices with a guaranteed accuracy estimate. (Russian) **89d:65045**
Sun, Ji Guang Perturbation of angles between linear subspaces. **89a:15025**
Turner, P. R. *see* **Clenshaw, C. W., 89k:65025**

65Hxx Nonlinear algebraic or transcendental equations

Chu, Moody T. On the continuous realization of iterative processes. **89h:65072**

Items with secondary classifications in 65Hxx

Alefeld, G. Über die Konvergenzordnung des Intervall-Newton-Verfahrens. (English summary) [On the order of convergence of the interval-Newton-method] **89b:65114**
Schönhage, Arnold Equation solving in terms of computational complexity. **89h:68071**

65H05 Single equations

Ando, Shigeru Real arithmetic versions of simultaneous iteration methods for polynomial root finding. **89m:65049**
Andreev, Andreĭ St. (*with* Kyurkchiev, Nikolaĭ V.) Two-sided methods for solving a polynomial equation. **89a:65078**
— *see also* **Kyurkchiev, Nikolaĭ V., 89g:65064** *and* **Atanasova, L.; et al., 89h:65073**
d'Ari, R. *see* **Thomas, René; et al., 89f:65058**
Atanasova, L. (*with* Kyurkchiev, Nikolaĭ V.; Andreev, Andreĭ St.) Recurrently generated iterative functions for the approximate solution of algebraic equations. (Russian) **89h:65073**
— *see also* **Kyurkchiev, Nikolaĭ V.; et al., 89e:65050**
Bai, Yu Shan The 0.618 iterative method for solving nonlinear equations. (Chinese. English summary) **89h:65074**

asso, Patricio (*with* Gatica, Gabriel) A generalization of the method of bisection to the case of functions with several roots. (Spanish. English summary) **89h:65075**
atukhtin, V. D. (*with* Korotaeva, L. N.; Maĭboroda, L. A.) On an approach to a search for the roots of a nondifferentiable function. (Russian) **89a:65079**
lanco García, Covadonga (*with* Tarrío, Ana D.; Zacarías Maceiras, Fernando) Numerical solution of nonlinear equations. (Spanish) (Not in MR)
oult, T. (*with* Sikorski, K.) Complexity of computing topological degree of Lipschitz functions in *n* dimensions. **89i:65051**
hen, Kai Zhou (*with* Wang, Kong Ming) A new continued fraction algorithm and its convergence. (Chinese) (Not in MR)
urry, James H. (*with* Fiedler, Stuart L.) On the dynamics of Laguerre's iteration: $Z^n - 1$. **89h:65076**
avitashvili, T. D. Some asynchronous iterative methods for solving nonlinear equations for parallel computer systems. (Russian. English and Georgian summaries) **89i:65052**
ias, Sandra Maria Venturelli Ferreira An analysis of a family of iterative methods for finding isolated roots. (Portuguese. English summary) **89h:65077**
u, Zhi Hui (*with* Luo, Yuan Quan) A simultaneous iteration method for factoring polynomials. (Chinese. English summary) **89a:65080**
— *see also* **Luo, Yuan Quan, 89a:65084**
yukanova, Teodora A. *see* **Kyurkchiev, Nikolaĭ V.; et al., 89e:65050**
iedler, Stuart L. *see* **Curry, James H., 89h:65076**
atica, Gabriel *see* **Basso, Patricio, 89h:65075**
udkov, V. V. On methods for the numerical solution of a transcendental equation with complex coefficients. (Russian) **89h:65078**
lanjš, Željko The Newton method for solving nonlinear equations. (Serbo-Croatian) **89g:65063**
leitzinger, W. (*with* Troch, I.; Valentin, G.) ★ Praxis nichtlinearer Gleichungen. (German) [Practice of nonlinear equations] **89a:65081**
litotumatu, Sin *see* **Park, Bong-kyu, 89a:65085** *and* **89d:65053**
lurley, Mike Improbability of nonconvergence in a cubic root-finding method. **89k:65062**
oakimidis, Nikolaos I. (*with* Papadakis, K.) A new class of quite elementary closed-form integral formulae for roots of nonlinear equations. **89m:65050**
amieson, M. J. Rapidly converging iterative formulae for finding square roots and their computational efficiencies. **89k:65063**
ansons, J. *see* **Riekstiņš, E., 89j:65042**
atz, I. Norman *see* **Ying, Xingren, 89g:65068**
lip, Dorothea A. An analytic approach to the solution of nonlinear equations. **89a:65082**
orotaeva, L. N. *see* **Batukhtin, V. D.; et al., 89a:65079**
ozek, Andrzej S. (*with* Trzmielak-Stanisławska, Anna) On dependence of MR- and MM-algorithms upon the value of switching control variable CTR. (Not in MR)
rebsz, Anna On a generalization of Bairstow's method. **89m:65051**
yurkchiev, Nikolaĭ V. Some iterative schemes of Dochev type with an increased rate of convergence. (Russian. English summary) **89a:65083**
— Computational aspects and areas of applicability of methods for the simultaneous determination of all roots of algebraic equations. (Russian. English summary) **89k:65064**
— An analogue of the Dochev-Byrnev method for the two-sided sharpening of all roots of algebraic equations. (Russian) **89g:65065**
— (*with* Dyukanova, Teodora A.; Atanasova, L.) Two methods for solving polynomial equations with higher rate of convergence. (Bulgarian. English summary) **89e:65050**
— (*with* Andreev, Andreĭ St.) Two-sided analog of the Chebyshev's method. **89g:65064**
— *see also* **Andreev, Andreĭ St., 89a:65078** *and* **Atanasova, L.; et al., 89h:65073**
ipanov, A. M. A trajectory method for solving systems of transcendental equations. **89k:65065**
uo, Yuan Quan (*with* Du, Zhi Hui) On the determination of multiple roots when an iteration method is used for solving a transcendental equation. (Chinese. English summary) **89a:65084**
— *see also* **Du, Zhi Hui, 89a:65080**
laĭboroda, L. A. *see* **Batukhtin, V. D.; et al., 89a:65079**
lcNamee, J. M. A comparison of methods for terminating polynomial iterations. **89d:65052**
liyakoda, Tsuyako Comparison of some numerical methods for multiple zeros of a polynomial. **89g:65066**
lonsi, M. (*with* Wolfe, M. A.) An algorithm for the simultaneous inclusion of real polynomial zeros. **89b:65118**
apadakis, K. *see* **Ioakimidis, Nikolaos I., 89m:65050**
ark, Bong-kyu (*with* Hitotumatu, Sin) A study on new Muller's method. **89a:65085**
— (*with* Hitotumatu, Sin) A new method using the circles of curvature for solving equations in $\mathbf{R}^1$. **89d:65053**
etković, M. S. (*with* Stefanović, L. V.) On some parallel higher-order methods of Halley's type for finding multiple polynomial zeros. **89i:65053**
heinboldt, Werner C. On a theorem of S. Smale about Newton's method for analytic mappings. **89h:65079**
ichelle, J. *see* **Thomas, René; et al., 89f:65058**
iekstiņš, E. (*with* Jansons, J.) On Steffensen's iterative formula. (Russian) **89j:65042**
aari, Donald G. Some informational requirements for convergence. **89b:65119**
hen, Guang Xing *see* **Wang, Xing Hua; et al., 89i:65054**
hub, Michael (*with* Smale, Steve) On the existence of generally convergent algorithms. **89d:65054**
ikorski, K. (*with* Woźniakowski, Henryk) For which error criteria can we solve nonlinear equations? **89h:65080**
— *see also* **Boult, T., 89i:65051**
male, Steve *see* **Shub, Michael, 89d:65054**
tefanović, L. V. *see* **Petković, M. S., 89i:65053**
toichev, L. I. A method for finding real zeros of a function using an interpolation spline. (Romanian summary) **89g:65067**
uzuki, Yoshihiko (*with* Ueno, Satoshi) A numerical calculation method for nonlinear equations from geometrical viewpoints. (Not in MR)
zabó, Zoltán István Combined iteration method for solving equations. **89c:65064**
ang, Jian Kang On the convergence of the single-step method for the simultaneous finding of all zeros of trigonometric polynomials. (Chinese. English summary) **89f:65057**
Tarrío, Ana D. *see* **Blanco García, Covadonga; et al.**, (Not in MR)
Thomas, René (*with* Richelle, J.; d'Ari, R.) Itération dirigée vers un point fixe ou un type de point fixe donné. (English summary) [Directed iteration to a fixed point or a given type of fixed point] **89f:65058**
Troch, I. *see* **Heitzinger, W.; et al., 89a:65081**
Trzmielak-Stanisławska, Anna *see* **Kozek, Andrzej S.**, (Not in MR)
Ueno, Satoshi *see* **Suzuki, Yoshihiko**, (Not in MR)
Valentin, G. *see* **Heitzinger, W.; et al., 89a:65081**
Wang, Kong Ming *see* **Chen, Kai Zhou**, (Not in MR)
Wang, Xing Hua (*with* Zheng, Shi Ming; Shen, Guang Xing) Bell's disk polynomials and parallel disk iteration. (Chinese summary) **89i:65054**
— (*with* Zheng, Shi Ming) Generalized continued fractions to find all complex roots of algebraic equations simultaneously. **89h:65081**
Weidner, Peter The Durand-Kerner method for trigonometric and exponential polynomials. (German summary) **89d:65055**
Wolfe, M. A. *see* **Monsi, M., 89b:65118**
Wong, Sherman The instability of the period-two cycles of Newton's method. **89b:65120**
Woźniakowski, Henryk *see* **Sikorski, K., 89h:65080**
Ying, Xingren (*with* Katz, I. Norman) A reliable argument principle algorithm to find the number of zeros of an analytic function in a bounded domain. **89g:65068**
Zacarías Maceiras, Fernando *see* **Blanco García, Covadonga; et al.**, (Not in MR)
Zheng, Shi Ming On convergence of a parallel algorithm for finding the roots of a polynomial. (Chinese) **89h:65082**
— *see also* **Wang, Xing Hua, 89h:65081** *and* **89i:65054**
Zhu, Jiang On the convergence order of the two-step secant method. (Chinese. English summary) **89g:65069a**
— Erratum: "On the convergence order of the two-step secant method". (Chinese) **89g:65069b**

Items with secondary classifications in 65H05

Abadie, J. (*with* Salhi, Y.) Sur la dérivation numérique en optimisation. (English summary) [On numerical derivation in optimization] **89f:90129**
Anastasselou, Eleni G. A formal comparison of the Delves-Lyness and Burniston-Siewert methods for locating the zeros of analytic functions. **89i:65030**
Chen, Qi Keith (*with* Mestel, B. D.) Taylor-Chirikov map package. **89k:58085**
Françoise, Jean-Pierre Estimations uniformes pour les domaines de convergence de la méthode de Newton. [Uniform estimates for the domains of convergence of Newton's method] **89d:58062**
Frommer, A. (*with* Straub, W.) Error-bounds for zeroes of polynomials using complex circular arithmetic. (German summary) **89k:65058**
Gilbert, William J. *see* **Vrscay, E. R., 89b:30026**
Horiuchi, Kazuo *see* **Yamamura, Kiyotaka; et al., 89j:65059**
Ioakimidis, Nikolaos I. A unified Riemann-Hilbert approach to the analytical determination of zeros of sectionally analytic functions. **89h:30006**
Jepson, A. D. (*with* Spence, A.) Numerical methods for bifurcation problems. **89h:58042**
Kerimov, M. K. (*with* Skorokhodov, S. L.) Calculation of multiple complex zeros of derivatives of cylindrical Bessel functions. (Russian) **89b:65053**
Kummer, Bernd Newton's method for nondifferentiable functions. **89h:90201**
Liu, Zhuo Jun A method of isolating complex roots of a polynomial—an application of the Wu-Ritt principle. (Chinese. English summary) **89k:12001**
Makrelov, I. V. (*with* Semerdzhiev, Kh. I.; Tamburov, S. G.) A method for the simultaneous determination of all zeros of a given generalized polynomial in a Chebyshev system. (Russian) **89k:30007a**
— (*with* Semerdzhiev, Kh. I.; Tamburov, S. G.) On the paper: "A method for the simultaneous determination of all zeros of a given generalized polynomial in a Chebyshev system". (Russian) **89k:30007b**
Marin, Alexis Sur la méthode de Newton. [Newton's method] **89e:58095**
— Géométrie des polynômes: Coût global moyen de la méthode de Newton (d'après M. Shub et S. Smale). [Geometry of polynomials: average global cost of Newton's method (following M. Shub and S. Smale)] **89g:58030**
Mestel, B. D. *see* **Chen, Qi Keith, 89k:58085**
Oishi, Shin'ichi *see* **Yamamura, Kiyotaka; et al., 89j:65059**
Olver, F. W. J. Error bounds for polynomial evaluation and complex arithmetic. **89h:65066**
Pickover, Clifford A. Overrelaxation and chaos. **89h:58105**
Renegar, James On the worst-case arithmetic complexity of approximating zeros of polynomials. **89a:68107**
Salhi, Y. *see* **Abadie, J., 89f:90129**
Saylor, Paul E. (*with* Smolarski, Dennis C.) Computing the roots of complex orthogonal and kernel polynomials. **89c:30014**
Schellhorn, Jean-Pierre Fitting data through homotopy methods. **89f:90156**
Semerdzhiev, Kh. I. *see* **Makrelov, I. V.; et al., 89k:30007a** *and* **89k:30007b**
(Shub, Michael) *see* **Marin, Alexis, 89g:58030**
Skorokhodov, S. L. *see* **Kerimov, M. K., 89b:65053**
Smale, Steve On the topology of algorithms. I. **89f:68020**
— *see also* **Marin, Alexis, 89g:58030**
Smolarski, Dennis C. *see* **Saylor, Paul E., 89c:30014**
Spence, A. *see* **Jepson, A. D., 89h:58042**
Straub, W. *see* **Frommer, A., 89k:65058**
Tamburov, S. G. *see* **Makrelov, I. V.; et al., 89k:30007a** *and* **89k:30007b**
Vrscay, E. R. (*with* Gilbert, William J.) Extraneous fixed points, basin boundaries and chaotic dynamics for Schröder and König rational iteration functions. **89b:30026**
Wisniewski, Helena S. Bounds for the chaotic behavior of Newton's method. **89a:58076**
Xu, Guo Liang A generalization of the QD algorithm for rational Hermite interpolation. (Chinese. English summary) **89i:65010**
Yamamura, Kiyotaka (*with* Oishi, Shin'ichi; Horiuchi, Kazuo) Simplicial homotopy method for the solution of nonlinear two-point boundary value problems. **89j:65059**
Zakharov, G. K. Iterative methods in real arithmetic. (Russian) **89h:65067**

65H10 Systems of equations

Abaffy, J. (*with* Galántai, Aurél; Spedicato, E.) The local convergence of ABS methods for nonlinear algebraic equations. **89c:65065**

— (*with* Galántai, Aurél) Conjugate direction methods for linear and nonlinear systems of algebraic conditions. **89e:65051**

— Superlinear convergence theorem in the ABSg class of algorithms for nonlinear algebraic equations. **89i:65055**

Belash, K. N. (*with* Tret′yakov, A. A.) Methods for solving degenerate problems. (Russian) **89k:65066**

Calamai, Paul H. (*with* Moré, Jorge J.) Quasi-Newton updates with bounds. **89f:65059**

Chen, Xiao Jun *see* **You, Zhao Yong, 89i:65058** *and* **89i:65059**

Chernyak, V. Ya. (*with* Mineeva, O. V.) A method for solving a system of nonlinear equations. (Russian) **89g:65070**

Chu, Moody T. (*with* Li, Tien-Yien; Sauer, Tim) Homotopy method for general λ-matrix problems. **89m:65052**

Coleman, Thomas F. (*with* Li, Guang Ye) Local convergence of the multi-secant method for the parallel solution of systems of nonlinear equations. **89i:65056**

Cong, Luan (*with* Feng, Guo Chen) Simplicial methods and approximation of several solutions. **89b:65121**

Feng, Ci Huang The convergence regions of a class of modified Newton methods. (Chinese. English summary) **89m:65053**

Feng, Guo Chen *see* **Cong, Luan, 89b:65121**

Forster, W. Computing "all" solutions of systems of polynomial equations by simplicial fixed point algorithms. **89b:65122**

Frommer, A. Comparison of Brown's and Newton's method in the monotone case. **89f:65060**

— Monotonicity of Brown's method. (German and Russian summaries) **89a:65086**

— Enclosing solutions with Brown's method. (Not in MR)

Galántai, Aurél *see* **Abaffy, J.; et al., 89c:65065** *and* **89e:65051**

Higham, Nicholas J. Fast solution of Vandermonde-like systems involving orthogonal polynomials. **89k:65067**

Hoy, Annegret A relation between Newton and Gauss-Newton steps for singular nonlinear equations. (German summary) **89b:65123**

Ip, Chi Ming (*with* Todd, M. J.) Optimal conditioning and convergence in rank one quasi-Newton updates. **89b:65124**

Jan, Jiří Recursive algorithms for solving systems of nonlinear equations. (Russian and Czech summaries) **89m:65054**

Kok, W. C. (*with* Tang, S. M.) Efficiency of a modified globally convergent algorithm for solving systems of nonlinear equations. **89f:65061**

Kolev, L. V. A quasi-Newton algorithm for following solution curves. **89a:65087**

Lau, H. T. On solving systems of nonlinear equations by simulation. **89d:65056**

Li, Guang Ye The secant/finite difference algorithm for solving sparse nonlinear systems of equations. **89k:65068**

— *see also* **Coleman, Thomas F., 89i:65056**

Li, Qing Yang Two-sided interval secant methods for separable mappings. (Chinese. English summary) **89i:65057**

Li, Tien-Yien (*with* Sauer, Tim; Yorke, James A.) Numerically determining solutions of systems of polynomial equations. **89d:65057**

— *see also* **Chu, Moody T.; et al., 89m:65052**

Martínez, J. M. Quasi-Newton methods with factorization scaling for solving sparse nonlinear systems of equations. (German summary) **89b:65125**

Măruşter, St. On the two-step gradient method for nonlinear equations. **89h:65083**

Mineeva, O. V. *see* **Chernyak, V. Ya., 89g:65070**

Moré, Jorge J. *see* **Calamai, Paul H., 89f:65059**

Morgan, Alexander (*with* Shapiro, Vadim) Corrigendum: "Box-bisection for solving second-degree systems and the problem of clustering" [ACM Trans. Math. Software 13 (1987), no. 2, 152–167; MR 88e:65063]. **89a:65088**

— (*with* Sommese, Andrew John) Computing all solutions to polynomial systems using homotopy continuation. **89b:65126**

Neumaier, A. The enclosure of solutions of parameter-dependent systems of equations. (*see* **89j:65011**)

— *see also* **Shen, Zu He, 89e:65052**

Noda, Tatsuo The Steffensen iteration method for systems of nonlinear equations. II. **89d:65058**

Ojika, Takeo A numerical method for branch points of a system of nonlinear algebraic equations. **89j:65043**

Pshenichnikov, S. B. Exact (symbolic) solution of systems of nonlinear algebraic equations: a direct and an inverse way for the exclusion of unknowns. (Russian) **89g:65071**

Qin, Meng Zhao A monotonically convergent iterative method for large sparse nonlinear equations. **89k:65069**

Rasputin, G. G. Polynomial ideals and some problems of computational methods. (Russian) **89j:65044**

Rheinboldt, Werner C. On the computation of multidimensional solution manifolds of parametrized equations. **89f:65062**

Sauer, Tim *see* **Li, Tien-Yien; et al., 89d:65057** *and* **Chu, Moody T.; et al., 89m:65052**

Schulze, Reinhard A method to solve systems of nonlinear equations with singularities. (German and Russian summaries) **89d:65059**

Shapiro, Vadim *see* **Morgan, Alexander, 89a:65088**

Shen, Zu He (*with* Neumaier, A.) A note on Moore's interval test for zeros of nonlinear systems. (German summary) **89e:65052**

Shi, Le Yuan A continuous minimization method for solving nonlinear equations. (Chinese. English summary) **89h:65084**

Smale, Steve Algorithms for solving equations. **89d:65060**

Sommese, Andrew John *see* **Morgan, Alexander, 89b:65126**

Spedicato, E. *see* **Abaffy, J.; et al., 89c:65065**

Tang, S. M. *see* **Kok, W. C., 89f:65061**

Todd, M. J. *see* **Ip, Chi Ming, 89b:65124**

Tret′yakov, A. A. *see* **Belash, K. N., 89k:65066**

Tsuchiya, Takuya Enlargement procedure for resolution of singularities at simple singular solutions of nonlinear equations. **89b:65127**

Vrahatis, Michael N. An error estimation for the method of bisection in $\mathbf{R}^n$. **89b:65128**

Yang, Zhong Hua An acceleration method in the homotopy Newton's continuation for nonlinear singular problems. **89h:65085**

Yorke, James A. *see* **Li, Tien-Yien; et al., 89d:65057**

You, Zhao Yong (*with* Chen, Xiao Jun) A two-sided interval iterative method for the finite-dimensional nonlinear systems. **89i:65058**

— (*with* Chen, Xiao Jun) A continuation-interval method for nonlinear systems. **89i:65059**

Zeng, Zhong Gang Solving systems of nonlinear equations in combinational form by a homotopy algorithm. (Chinese. English summary) **89b:65129**

Zhou, Shu Zi On the order of convergence of the two-step secant method. (Chinese. English summary) **89k:65070**

Zulehner, W. A simple homotopy method for determining all isolated solutions to polynomial systems. **89b:65130**

— Numerische Lösung polynomialer Gleichungssysteme durch Kurvenverfolgung. [Numerical solution of polynomial equation systems by curve tracing] **89m:65055**

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Ascher, U. (*with* Osborne, M. R.) A note on solving nonlinear equations and the natural criterion function. **89a:90118**

Bao, P. *see* **Rokne, J. G., 89a:65077**

Broadie, Mark N. (*with* Eaves, B. Curtis) A variable rate refining triangulation. **89b:90178**

Brunovský, Pavol (*with* Meravý, Pavol) How to solve algebraic equations by means of differential equations. (Slovak) **89b:58036**

Chen, Qi Keith (*with* Meiss, J. D.; Percival, I. C.) Orbit extension method for finding unstable orbits. **89b:58066**

Chen, Xiao Jun *see* **You, Zhao Yong, 89k:65060**

Dudnik, V. G. On the approximate calculation of fixed points of continuous mappings. (Russian) **89a:90119**

Eaves, B. Curtis *see* **Broadie, Mark N., 89b:90178**

Eufrásio Filho, Heronides Simplicial algorithms and topology. (Portuguese. English summary) **89f:57031**

Ford, William F. *see* **Smith, David Alexander; et al., 89j:65013a** *and* **89j:65013b**

Gelman, Alexander (*with* Rheinboldt, Werner C.) On the computation of finite invariant sets of mappings. **89h:58164**

Glimm, James (*with* Grove, John; Lindquist, W. Brent; McBryan, Oliver A.; Tryggvason, Grétar) The bifurcation of tracked scalar waves. **89g:76032**

Griewank, Andreas The local convergence of Broyden-like methods on Lipschitzian problems in Hilbert spaces. **89b:65143**

Grove, John *see* **Glimm, James; et al., 89g:76032**

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Healey, Timothy J. A group-theoretic approach to computational bifurcation problems with symmetry. **89k:58057**

Hofmann, Bernd An algorithm for the control of a multiparameter regularization procedure. (Russian) **89i:65064**

Hu, Shou Chuan Fixed points for discontinuous quasi-monotone maps in $\mathbf{R}^n$. **89k:47093**

Kaiser, André *see* **Gutknecht, Martin, 89b:65144**

Keller, H. B. ★ Lectures on numerical methods in bifurcation problems. **89f:58031**

Krawczyk, R. Conditionally isotone interval operators. (German summary) **89a:65076**

Labonté, Gilles On the solution of matrix equations, example: application to invariant equations. **89b:65104**

Li, Kai Tai *see* **Mei, Zhen, 89c:35015**

Li, Tien-Yien Solving polynomial systems. **89d:12001**

Lindquist, W. Brent *see* **Glimm, James; et al., 89g:76032**

Ling, Fu Hua Bifurcation curves of the Hénon map determined by a multiple shooting technique. **89c:58090**

Maritz, M. *see* **Mitchell, Andrew Ronald; et al., 89i:58107**

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McBryan, Oliver A. *see* **Glimm, James; et al., 89g:76032**

Mei, Zhen (*with* Li, Kai Tai) Hopf bifurcation problems and their numerical analysis. (Chinese) **89c:35015**

Meiss, J. D. *see* **Chen, Qi Keith; et al., 89b:58066**

Meravý, Pavol *see* **Brunovský, Pavol, 89b:58036**

Mitchell, Andrew Ronald (*with* Stein, Gerard; Maritz, M.) Periodic structure beyond a Hopf bifurcation. **89i:58107**

Mittelmann, H. D. Multi-grid continuation and spurious solutions for nonlinear boundary value problems. **89i:65107**

Morozov, V. V. A method for solving systems of algebraic equations that arise in the design of tree-type networks. **89k:90167**

(Nandakumaran, A. K.) *see* **Keller, H. B., 89f:58031**

Osborne, M. R. *see* **Ascher, U., 89a:90118**

Peitgen, Heinz-Otto (*with* Prüfer, Michael; Schmitt, Klaus) Newton flows for real equations. **89k:58163**

Percival, I. C. *see* **Chen, Qi Keith; et al., 89b:58066**

Prüfer, Michael *see* **Peitgen, Heinz-Otto; et al., 89k:58163**

(Ramaswamy, Mythily) *see* **Keller, H. B., 89f:58031**

Rheinboldt, Werner C. *see* **Gelman, Alexander, 89h:58164**

Rokne, J. G. (*with* Bao, P.) Interval Taylor forms. (German summary) **89a:65077**

Schmitt, Klaus *see* **Peitgen, Heinz-Otto; et al., 89k:58163**

Sidi, Avram *see* **Smith, David Alexander; et al., 89j:65013a** *and* **89j:65013b**

Smith, David Alexander (*with* Ford, William F.; Sidi, Avram) Extrapolation methods for vector sequences. **89j:65013a**

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Spedicato, E. A class of algorithms for sequential and parallel solution of systems of linear and nonlinear equations. (Chinese. English summary) **89k:65044**

Stein, Gerard *see* **Mitchell, Andrew Ronald; et al., 89i:58107**

Stickel, E. On a class of high order methods for inverting matrices. **89b:65086**

Tret'yakov, A. A. The implicit function theorem in degenerate problems. (Russian) **89d:58015**

Tryggvason, Grétar *see* **Glimm, James; et al., 89g:76032**

van Veldhuizen, M. A new algorithm for the numerical approximation of an invariant curve. **89f:65079**

Wang, Ze Ke The geometric theory of homotopy algorithms. (Chinese. English summary) **89m:90145**

You, Zhao Yong (*with* Chen, Xiao Jun) Interval iterative methods under partial ordering. I. **89k:65060**

65H15 Eigenvalues, eigenvectors

Demmel, James W. (*with* Kågström, Bo) Accurate solutions of ill-posed problems in control theory. **89b:65131**

Kågström, Bo *see* **Demmel, James W., 89b:65131**

Items with secondary classifications in 65H15

Aliev, Z. S. *see* **Makhmudov, A. P., 89a:47087**

Friedland, Shmuel (*with* Nocedal, J.; Overton, Michael L.) The formulation and analysis of numerical methods for inverse eigenvalue problems. **89c:65045**

Limaye, B. V. Numerical approximation of eigenvalues and eigenvectors. **89c:65070**

Makhmudov, A. P. (*with* Aliev, Z. S.) On a nonlinear analogue of the implicit method in the theory of perturbations of an isolated eigenvalue. **89a:47087**

Nocedal, J. *see* **Friedland, Shmuel; et al., 89c:65045**

Overton, Michael L. *see* **Friedland, Shmuel; et al., 89c:65045**

65H99 None of the above, but in this section

Burmeister, W. (*with* Schmidt, Jochen W.) On the *R*-order of coupled sequences arising in single-step type methods. **89h:65086**

Chen, Ze Peng The numerical realization of some simplicial homotopy algorithms. (Chinese. English summary) **89b:65132**

Goman, M. G. A differential method for the continuation of solutions of systems of finite nonlinear equations that depend on a parameter. (Russian) **89g:65072**

Schmidt, Jochen W. *see* **Burmeister, W., 89h:65086**

Veroy, Boris S. An optimal algorithm for search of extrema of a bimodal function. **89h:65087**

Wang, Ze Ke A perturbation-free version of Merrill's restart algorithm. (Chinese. English summary) **89h:65088**

Items with secondary classifications in 65H99

Ayaki, Kenichiro *see* **Matsumoto, Takashi; et al., 89h:58125**

Benjamin, Arthur The bisection method: which root? **89c:26016**

Bersenev, S. M. Stable solution of a class of matrix equations. (Russian) **89b:65066**

Chua, Leon O. *see* **Matsumoto, Takashi; et al., 89h:58125**

Collatz, Lothar Bifurcation problems in different parts of mathematics. **89h:58002**

Horiuchi, Kazuo *see* **Yamamura, Kiyotaka, 89j:94043**

Janovský, Vladimír Minimally extended defining conditions for singularities of codim ≤ 2. **89h:58024**

Khazanov, V. B. *see* **Kublanovskaya, V. N., 89c:65048**

Kublanovskaya, V. N. (*with* Khazanov, V. B.) Deflation in spectral problems for matrix pencils. (Russian) **89c:65048**

Malinetskiĭ, G. G. (*with* Potapov, A. B.) On the calculation of the dimension of strange attractors. (Russian) **89j:58080**

Matsumoto, Takashi (*with* Chua, Leon O.; Ayaki, Kenichiro) Reality of chaos in the double scroll circuit: a computer-assisted proof. **89h:58125**

Potapov, A. B. *see* **Malinetskiĭ, G. G., 89j:58080**

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Yamamura, Kiyotaka (*with* Horiuchi, Kazuo) Steady-state analysis of nonlinear oscillatory circuits by iterative decomposition method. **89j:94043**

Yang, Zhong Hua Folds of degree 4 and swallowtail catastrophe. **89f:58036**

65Jxx Numerical analysis in abstract spaces

Morozov, V. A. ★ Регулярные методы решения некорректно поставленных задач. (Russian) [Regular methods for solving ill-posed problems] **89f:65063**

— ★ Методы регуляризации неустойчивых задач. (Russian) [Methods for the regularization of unstable problems] **89m:65056**

Ognëva, V. A. (*with* Yuzhakova, N. F.) A generalized iterative process for solving linear and nonlinear operator equations. (Russian) (*see* **89f:00011**)

Yuzhakova, N. F. *see* **Ognëva, V. A., (89f:00011)**

Items with secondary classifications in 65Jxx

Bukhgeĭm, A. L. ★ Введение в теорию обратных задач. (Russian) [Introduction to the theory of inverse problems] **89i:35127**

65J05 General

Asmuss, S. V. An error estimate for spline interpolation. (Russian) **89c:65066**

Bukhgeĭm, A. L. ★ Разностные методы решения некорректных задач. (Russian) [Difference methods for solving ill-posed problems] **89h:65089**

Goncharskiĭ, A. V. Ill-posed problems and their solution methods. **89d:65061**

Podosenova, T. B. *see* **Zaikin, P. N., 89j:65045**

Wasilkowski, G. W. (*with* Woźniakowski, Henryk) On optimal algorithms in an asymptotic model with Gaussian measure. **89h:65090**

Woźniakowski, Henryk *see* **Wasilkowski, G. W., 89h:65090**

Zaikin, P. N. (*with* Podosenova, T. B.) On the construction of a minimal basis. (Russian) **89j:65045**

Zarubin, A. G. Investigation of the Galerkin-Petrov projection procedure by the method of fractional powers. **89b:65133**

Items with secondary classifications in 65J05

Dickmeis, W. (*with* Nessel, R. J.; van Wickeren, E.) Quantitative extensions of the uniform boundedness principle. **89h:41001**

Gähler, S. Discrete convergence and applications to integral equations on the half line. **89h:65219**

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Li, Chong *see* **Xu, Shi Ying, 89c:41019**

Li, Shou Fu The nonlinear stability of explicit and diagonally implicit Runge-Kutta methods. (Chinese. English summary) **89h:65114**

— Stability criteria for Runge-Kutta methods. (Chinese. English summary) **89a:65108**

— Stability criteria for one-leg methods and linear multistep methods. (Chinese. English summary) **89k:65087**

Molodtsov, D. A. ★ Устойчивость принципов оптимальности. (Russian) [Stability of optimality principles] **89d:90216**

Nessel, R. J. *see* **Dickmeis, W.; et al., 89h:41001**

Ottavy, N. Strong convergence of projection-like methods in Hilbert spaces. **89c:65075**

Pang, Ju Hyon On regularization of incorrect problems with closable operator. (Korean. English summary) **89a:47017**

Penot, Jean-Paul About linearization, conization, calmness, openness and regularity. **89d:90236**

Reddien, George W. Determining equations for bifurcation problems. **89f:58035**

Roch, S. (*with* Silbermann, Bernd) Toeplitz-like operators, quasicommutator ideals, numerical analysis. II. **89b:47039**

Silbermann, Bernd *see* **Roch, S., 89b:47039**

Trubnikov, Yu. V. The Hanner inequality and the convergence of iterative processes. (Russian) **89a:46029**

Vinokurov, V. A. Regularizability of functions. **89g:54047**

van Wickeren, E. *see* **Dickmeis, W.; et al., 89h:41001**

Woźniakowski, Henryk *see* **Jackowski, T., 89a:68102**

Xu, Shi Ying (*with* Li, Chong) Characterization of best simultaneous approximation. **89c:41019**

65J10 Equations with linear operators (do not use 65Fxx)

d'Almeida, Filomena Dias (*with* Rodrigues, Maria João) Is the iterative refinement of eigenelements an expensive technique? **89b:65134**

Amer, Mustafa Amin (*with* Eissa, H. H.) On the solution of eigenvalue problems in the Hilbert space. (Arabic summary) **89g:65073**

Arsenin, V. Ya. (*with* Kriksin, Yu. A.; Timonov, A. A.) Some methods for the local regularization of linear ill-posed problems. (Russian) **89a:65089**

Bertero, M. (*with* Brianzi, P.; Pike, E. R.; Rebolia, L.) Linear regularizing algorithms for positive solutions of linear inverse problems. **89e:65053**

Bondarenko, L. N. (*with* Zhuk, P. F.) Combined iterative methods of variational type. (Russian) **89m:65057**

Brianzi, P. *see* **Bertero, M.; et al., 89e:65053**

Daskaloyannis, C. On the approximation of the linear equations with bounded kernels. **89h:65091**

Eissa, H. H. *see* **Amer, Mustafa Amin, 89g:65073**

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— (*with* Gfrerer, H.) A posteriori parameter choice for general regularization methods for solving linear ill-posed problems. **89i:65060**

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Gfrerer, H. *see* **Engl, Heinz W., 89i:65060**

Grebennikov, A. I. A spline-approximation method for solving some ill-posed problems. **89c:65068**

Groetsch, C. W. *see* **Engl, Heinz W., 89g:65074**

Guacaneme, Julio E. An optimal parameter choice for regularized ill-posed problems. **89e:65054**

— On simplified Tikhonov regularization. **89h:65092**

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Kamyshan, A. V. (*with* Kamyshan, V. V.; Lesikova, T. I.) Construction of a correctness set for the discretization of an inverse problem. (Russian) **89e:65055**

Kamyshan, V. V. *see* **Kamyshan, A. V.; et al., 89e:65055**

Kayalar, Selahattin (*with* Weinert, Howard L.) Error bounds for the method of alternating projections. **89b:65137**

Kiho, T. Optimal choice of parameter in the Lavrent'ev method on a class of sourcewise representable solutions. (Russian. English summary) **89a:65090**

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Knyazikhin, Yu. Convergence of the Seidel method for solving operator equations. (Russian. English and Estonian summaries) **89b:65138**

Kriksin, Yu. A. *see* **Arsenin, V. Ya.; et al., 89a:65089**

Labeev, V. I. The connection between compact approximation and regular and stable convergence. (Russian) **89c:65069**

Lamb, Wilson (*with* Mika, Janusz Roman; Roach, G. F.) Approximate solutions of problems involving normal operators. **89a:65091**
Lasiecka, Irena (*with* Manitius, A.) Differentiability and convergence rates of approximating semigroups for retarded functional-differential equations. **89i:65062**
Lesikova, T. I. *see* **Kamyshan, A. V.; et al., 89e:65055**
Li, Jong Du Application of the moment project-iteration method to solution of the integro-differential equation of one form. (Korean. English summary) **89e:65056**
Limaye, B. V. Numerical approximation of eigenvalues and eigenvectors. **89c:65070**
Manitius, A. *see* **Lasiecka, Irena, 89i:65062**
Marek, Ivo Aggregation and homogenization in reactor diffusion. **89i:65063**
Mika, Janusz Roman *see* **Lamb, Wilson; et al., 89a:65091**
Mokeĭchev, V. S. Calculation with a given accuracy of the eigenvalues and eigenelements of linear operators. (Russian) **89g:65075**
Morozov, V. A. (*with* Nazimov, A. B.) Approximate solution of a class of nonuniquely solvable operator equations. (Russian) **89c:65071**
Moss, William F. (*with* Smith, Philip W.; Ward, Joseph D.) Nonlinear eigenvalue approximation. **89g:65076**
Nair, M. Thamban A modified projection method for equations of the second kind. **89b:65139**
Nazimov, A. B. *see* **Morozov, V. A., 89c:65071**
Neubauer, Andreas ★ Tikhonov-regularization of ill-posed linear operator equations on closed convex sets. **89h:65093**
— Tikhonov-regularization of ill-posed linear operator equations on closed convex sets. **89h:65094**
— *see also* **Engl, Heinz W., 89b:65135** *and* **89c:65067**
Pang, Ju Hyon On self-regularization of incorrect problems with closable operator. (Korean. English summary) **89d:65062**
Pike, E. R. *see* **Bertero, M.; et al., 89e:65053**
Raus, T. The principle of the residual in the case of ambiguous information on the error of the input data. (Russian. English summary) **89a:65092**
Rebolia, L. *see* **Bertero, M.; et al., 89e:65053**
Roach, G. F. *see* **Lamb, Wilson; et al., 89a:65091**
Rodrigues, Maria João *see* **d'Almeida, Filomena Dias, 89b:65134**
Schock, Eberhard Approximate solution of ill-posed equations: arbitrarily slow convergence vs. superconvergence. **89a:65093**
Smith, Philip W. *see* **Moss, William F.; et al., 89g:65076**
Sonnevend, Gy. Sequential, stable and low complexity methods for the solution of moment (mass recovery) problems. **89h:65095**
Tanana, V. P. (*with* Yanchenko, S. I.) On the optimization of methods for the regularization of degenerate operator equations of the first kind. **89b:65140**
Timonov, A. A. *see* **Arsenin, V. Ya.; et al., 89a:65089**
Travis, C. H. *see* **Jones, Michael C., 89b:65136**
Vinokurov, V. A. Strict regularizability of linear inverse problems. (Russian) **89a:65094**
Ward, Joseph D. *see* **Moss, William F.; et al., 89g:65076**
Weinert, Howard L. *see* **Kayalar, Selahattin, 89b:65137**
Werschulz, Arthur G. An information-based approach to ill-posed problems. **89b:65141**
— What is the complexity of ill-posed problems? **89e:65057**
Yanchenko, S. I. *see* **Tanana, V. P., 89b:65140**
Zagonov, V. P. Some variational methods for constructing approximations of nonsmooth solutions of ill-posed problems. (Russian) **89f:65064**
Zhuk, P. F. *see* **Bondarenko, L. N., 89m:65057**
Zykin, S. V. Mixed approximation. (Russian) **89h:65096**

Items with secondary classifications in 65J10

Balashova, S. D. (*with* Osipov, N. M.) Some methods for finding eigenvalues of selfadjoint operators. (Russian) (*see* **89f:00011**)
Baumeister, Johann ★ Stable solution of inverse problems. **89a:65004**
Bernstein, Herbert J. An inequality for selfadjoint operators on a Hilbert space. **89b:47013a**
— Corrigenda to: "An inequality for selfadjoint operators on a Hilbert space". **89b:47013b**
Cox, Dennis D. Approximation of method of regularization estimators. **89f:62038**
Domanskiĭ, E. N. The equivalence of the convergence of a regularizing algorithm to the existence of a solution of an ill-posed problem. (Russian) **89f:47016**
Furuta, Takayuki An inequality for some nonnormal operators. **89i:47011**
Gibson, James S. (*with* Rosen, I. G.) Numerical approximation for the infinite-dimensional discrete-time optimal linear-quadratic regulator problem. **89a:93020**
Gilyazov, S. F. ★ Методы решения линейных некорректных задач. (Russian) [Methods for solving linear ill-posed problems] **89c:65002**
Go, Jong Bu *see* **Pak, Tae Je, 89a:65053**
Goncharskiĭ, A. V. Ill-posed problems and their solution methods. **89d:65061**
Gulyaev, N. I. *see* **Shelepen′, S. A.,** (**89c:00008**)
Ivanov, Valentin Konstantinovich Some estimates for quasisolutions of operator equations of the first kind. (Russian) **89b:47017**
Jódar, Lucas An algorithm for solving generalized algebraic Lyapunov equations in Hilbert space, applications to boundary value problems. **89c:47022**
Karyukin, V. V. Acceleration of the convergence of an iterative process in the solution of integral equations by the Monte Carlo method. (Russian. English summary) **89b:65017**
Kolyadin, V. L. (*with* Kravchenko, V. F.) The choice of subspaces in projection methods for solving operator equations. **89b:47018**
Kravchenko, V. F. *see* **Kolyadin, V. L., 89b:47018**
Kuang, Jiao Xun On the minimum property of the pseudo κ-condition number for a linear operator. **89k:47021**
Lenard, Christopher Iterative methods for eigenproblems. **89e:65039**
Marinov, Corneliu Truncation errors for infinite linear systems. **89h:65115**
Miel, George Iterative refinement of the method of moments. **89d:47020**
Mints, Anna On some results connected with the method of operator iterations. (Russian. English summary) **89c:47014**
Osipov, N. M. *see* **Balashova, S. D.,** (**89f:00011**)
Packel, Edward W. Do linear problems have linear optimal algorithms? **89h:68068**
Pak, Tae Je (*with* Go, Jong Bu) Several properties about stability of the pseudosolution and the normal solution of a noise equation of corrective value. (Korean. English summary) **89a:65053**
Rosen, I. G. *see* **Gibson, James S., 89a:93020**
Rudraiah, N. *see* **Shivakumar, P. N.; et al., 89a:47019**
Shelepen′, S. A. (*with* Gulyaev, N. I.) An approximate method for the solution of a linear operator equation and its application to the solution of a boundary value problem. (Russian) (*see* **89c:00008**)
Shivakumar, P. N. (*with* Williams, J. J.; Rudraiah, N.) Eigenvalues for infinite matrices. **89a:47019**
Wang, Guo Rong[1] Approximation methods for the W-weighted Drazin inverses of linear operators in Banach spaces. (Chinese. English summary) **89i:47005**
Williams, J. J. *see* **Shivakumar, P. N.; et al., 89a:47019**
Zítko, Jan Two step extrapolation and optimum choice of relaxation factor of the extrapolated S.O.R. method. (Russian and Czech summaries) **89h:65051**

65J15 Equations with nonlinear operators (do not use 65Hxx)

Agoshkov, V. I. *see* **Marchuk, G. I., 89b:65145** *and* **89g:65077**
Allgower, E. L. (*with* Chien, Cheng Sheng) Continuation and local perturbation for multiple bifurcations. **89a:65095**
Argyros, I. K. Newton-like methods under mild differentiability conditions with error analysis. **89b:65142**
Balázs, M. On the approximate solution of operator equations in Hilbert spaces. (Romanian summary) **89j:65046**
Chien, Cheng Sheng *see* **Allgower, E. L., 89a:65095**
Chiorean, Ioana (*with* Groze, Sever) On the solving of operatorial equations defined in Fréchet spaces by a modified chord method. (Romanian summary) **89k:65071**
— *see also* **Groze, Sever, 89h:65097**
Filippov, V. M. Classes of operators in a variational method for solving nonlinear equations. (Russian) **89e:65058**
Fleĭdervish, M. Iterative methods with a parametric sequence. (Russian. English summary) **89a:65096**
Frommer, A. Monotonicity of Brown's method. **89f:65065**
Georgescu, Adelina *see* **Oprea, Iuliana, 89j:65048**
Griewank, Andreas The local convergence of Broyden-like methods on Lipschitzian problems in Hilbert spaces. **89b:65143**
Groze, Sever (*with* Chiorean, Ioana) On the Steffensen's method in Fréchet spaces. **89h:65097**
— A method analogous to the Chebyshev method for the solving of the operator equations defined in Fréchet spaces. (Romanian summary) **89m:65058**
— *see also* **Chiorean, Ioana, 89k:65071**
Gutknecht, Martin (*with* Kaiser, André) Iterative k-step methods for computing possibly repulsive fixed points in Banach spaces. **89b:65144**
Hofmann, Bernd An algorithm for the control of a multiparameter regularization procedure. (Russian) **89i:65064**
Jin, Chong Fang Newton-like methods for solving singular problems. (Chinese. English summary) **89j:65047**
Kaiser, André *see* **Gutknecht, Martin, 89b:65144**
Karimova, D. Kh. The nonlinear relaxation method. (Russian. Tajiki summary) **89i:65065**
Levchenkov, V. S. The connection between sequentially compact approximation and uniform convergence. (Russian) **89f:65066**
Marchuk, G. I. (*with* Agoshkov, V. I.) ★ Сопряженные операторы и алгоритмы возмущений в нелинейных задачах. Принципы построения сопряженных операторов. (Russian) [Conjugate operators and perturbation algorithms in nonlinear problems. Principles for constructing conjugate operators] **89b:65145**
— (*with* Agoshkov, V. I.) ★ Сопряженные операторы и алгоритмы возмущений в нелинейных задачах. Алгоритмы возмущений. (Russian) [Conjugate operators and perturbation algorithms in nonlinear problems. Perturbation algorithms] **89g:65077**
Nashed, M. Z. On nonlinear ill-posed problems. I. Classes of operator equations and minimization of functionals. **89b:65146**
Oprea, Iuliana (*with* Georgescu, Adelina) Numerical methods in bifurcation theory. II. Stationary solutions in the infinite-dimensional case. (Romanian. English summary) **89j:65048**
Pan, Zhuang Yuan The use of the secant method to solve singular problems. (Chinese. English summary) **89d:65063**
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Reusken, A. Convergence of the multilevel full approximation scheme including the V-cycle. **89k:65072**
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— Convergence of mean iterations for nonlinear monotone equations in a Banach space. (Russian) **89b:65147**
Turinici, Mihai Iterative processes of maximal type in metric and Banach spaces. **89b:65148**
Vaarmann, O. Methods of tangent hyperbola type. (Russian. English and Estonian summaries) **89a:65097**
Vainikko, È. The convergence of the Tikhonov method for nonlinear ill-posed problems on a class of functions of bounded variation. (Russian. English summary) **89a:65098**
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Yao, Lin (*with* Pan, Zhuang Yuan) A region contraction algorithm in the space L^p ($p > 2$) and its applications. (Chinese. English summary) **89h:65098**

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Akhiezer, T. A. Iterative processes that are connected with nonexpansive mappings. (Russian) **89k:47087**
Aliev, Z. S. *see* **Makhmudov, A. P., 89a:47087**
Altman, Mieczyslaw Global linearization iterative methods and nonlinear partial differential equations. III. **89f:47090**

Anselone, P. M. (*with* Lei, Jin Gan) Nonlinear operator approximation theory based on demi-regular convergence. **89d:47138**

Bakhtin, I. A. The method of monotone approximations in the theory of nonlinear equations with extremal operators. (Russian) **89d:47139**

Balázs, M. (*with* Goldner, Gavrilă) Monotone enclosure for Cauchy problem. **89e:47093**

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Barashkov, A. S. On the uniqueness of quasisolutions of operator equations. (Russian) **89f:47092**

Bermúdez de Castro, Alfredo (*with* Rodriguez, Carmen) A nonlinear evolution equation modelling the Marangoni effect: existence of solution and numerical methods. (French summary) **89g:34094**

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Goldner, Gavrilă *see* **Balázs, M., 89e:47093**

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Ivanenko, V. I. (*with* Mel'nik, V. S.) The method of monotone operators in control problems for quasilinear systems. **89g:93031**

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Janovská, Dáša *see* **Janovský, Vladimír, 89b:58049**

Janovský, Vladimír (*with* Janovská, Dáša) Inflated mappings for singularities of codimension ≤ 2. **89b:58049**

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Khlobystov, V. V. *see* **Makarov, Vladimir Leonidovich, 89h:41008**

Kim, Myong Gil *see* **Sim, Sen Suk**, (Not in MR)

Lehtonen, Ari *see* **Nečas, Jindřich; et al., 89e:58026**

Lei, Jin Gan Finite-dimensional approximation of nonlinear variational inequalities. (Chinese. English summary) **89a:49012**

— *see also* **Anselone, P. M., 89d:47138**

Li, Yan Sheng The global problem of order reduction for systems of homogeneous linear ordinary differential equations. (Chinese. English summary) **89j:34008**

Makarevich, T. A. *see* **Zabreĭko, P. P., 89a:47085**

Makarov, Vladimir Leonidovich (*with* Khlobystov, V. V.) An interpolation method for solving the identification problem for a function system described by the Uryson operator. **89h:41008**

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Moret, Igor On a general iterative scheme for Newton-type methods. **89g:58016**

Musaev, V. M. *see* **Mamedov, Ya. D., 89d:47132**

Nečas, Jindřich (*with* Lehtonen, Ari; Neittaanmäki, Pekka) On the construction of Lusternik-Schnirelmann critical values with application to bifurcation problems. **89e:58026**

Neittaanmäki, Pekka *see* **Nečas, Jindřich; et al., 89e:58026**

Pan, Xing Bin Eigenvectors of nonmonotone operators and an iterative method. (Chinese. English summary) **89i:47114**

Potra, Florian A. Left subinverses and monotone iterations for nonlinear operator equations. **89d:47140**

Raitums, U. Preservation of potentiality in the case of *G*-convergence of monotone operators. (Russian) **89k:47107**

Reich, Simeon *see* **Banks, H. T.; et al., 89m:47060**

Rodriguez, Carmen *see* **Bermúdez de Castro, Alfredo, 89g:34094**

Rosen, I. G. *see* **Banks, H. T.; et al., 89m:47060**

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Shen, Zu He *see* **Moore, R. E., (89j:65011)**

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Stetsenko, V. Ya. (*with* Shaaban, M.) A method for proving the solvability of nonlinear boundary value problems. (Russian. Tajiki summary) **89d:47136**

Tsuchiya, Takuya Enlargement procedure for resolution of singularities at simple singular solutions of nonlinear equations. **89b:65127**

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65J99 None of the above, but in this section

Chuyan, O. R. A relationship between the guaranteed results of active and passive algorithms. (Russian) **89c:65073**

Dean, Edward J. (*with* Glowinski, R.; Li, Chin Hsien) Applications of operator splitting methods to the numerical solution of nonlinear problems in continuum mechanics and physics. **89e:65060**

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Gordeziani, D. G. (*with* Korshiya, T. K.; Lobzhanidze, G. B.) Averaged schemes of summary approximation for nonlinear parabolic equations. (Russian. English and Georgian summaries) **89f:65068**

Govaerts, W. On small relative distances in a three-dimensional space with infinite norm. **89b:65149**

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Woźniakowski, Henryk *see* **Sikorski, K., 89a:65100**

Items with secondary classifications in 65J99

Baker-Jarvis, James Solution to boundary value problems using the method of maximum entropy. **89k:65094**

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Kawato, M. (*with* Isobe, M.; Maeda, Yoshiharu; Suzuki, Ryoji^1) Coordinates transformation and learning control for visually-guided voluntary movement with iteration: a Newton-like method in a function space. **89h:92022**

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Items with secondary classifications in 65J99

Elsner, G. A new sequential cluster algorithm for optical lens design. (Not in MR)

65Kxx Mathematical programming, optimization and variational techniques [see also 49Dxx, 90Cxx, 93–XX]

Baginov, I. P. *see* **Gurman, V. I.; et al., 89h:65099**

Baturin, V. A. *see* **Gurman, V. I.; et al., 89h:65099**

Bobryshev, A. G. *see* **Gurman, V. I.; et al., 89h:65099**

Butin, A. A. *see* **Gurman, V. I.; et al., 89h:65099**

Danilina, E. V. *see* **Gurman, V. I.; et al., 89h:65099**

Derenko, N. V. *see* **Gurman, V. I.; et al., 89h:65099**

Dushin, K. B. *see* **Gurman, V. I.; et al., 89h:65099**

Dykhta, V. A. *see* **Gurman, V. I.; et al., 89h:65099**

Fedorova, E. Yu. *see* **Gurman, V. I.; et al., 89h:65099**

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Moskalenko, A. I. *see* **Gurman, V. I.; et al., 89h:65099**

Nikiforova, L. N. *see* **Gurman, V. I.; et al., 89h:65099**

Ovsyannikova, N. A. *see* **Gurman, V. I.; et al., 89h:65099**

Rasina, I. V. *see* **Gurman, V. I.; et al., 89h:65099**

Rozenraukh, D. M. *see* **Gurman, V. I.; et al., 89h:65099**

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Items with secondary classifications in 65Kxx

Mordukhovich, B. Sh. ★ Методы аппроксимаций в задачах оптимизации и управления. (Russian) [Approximation methods in problems of optimization and control] **89m:49001**

Sibony, Moïse ★ Analyse numérique. III. (French) [Numerical analysis. III] **89k:65002**

65K05 Mathematical programming

Balashova, S. D. (*with* Plaksiĭ, Z. T.) Projection-iteration methods for solving problems of minimization with constraints. (Russian) **89m:65059**

Barlow, J. L. (*with* Nichols, N. K.; Plemmons, Robert J.) Iterative methods for equality-constrained least squares problems. **89h:65100**

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Chen, Kai Zhou (*with* Wang, Kong Ming) A new continued fraction algorithm and its convergence. (Chinese. English summary) **89j:65049**

Conn, A. R. (*with* Gould, N. I. M.; Toint, Ph. L.) Testing a class of methods for solving minimization problems with simple bounds on the variables. **89e:65061**

Dinkel, John J. (*with* Tretter, Marietta J.; Wong, Danny) Interval Newton methods and perturbed problems. **89m:65060**

Fletcher, Roger ★ Practical methods of optimization. **89j:65050**

Fontecilla, R. Local convergence of secant methods for nonlinear constrained optimization. **89j:65051**

Gavrilyuk, I. P. An algorithm for solving a class of one-dimensional variational inequalities. (Russian) **89k:65073**

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Kaniovskiĭ, Yu. M. Sufficient conditions for the convergence of the method of successive approximations with discontinuous functions. (Russian) **89b:65151**

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— A subgradient selection method for minimizing convex functions subject to linear constraints. (German summary) **89h:65101**

— A constraint linearization method for nondifferentiable convex minimization. **89b:65152**

Kovács, Margit (*with* Vasil′ev, F. P.) On the convergence rate of the continuous version of the regularized gradient method (convergence rate of regularization). **89h:65103**

Kulinich, A. V. An iterative method for solving systems of inequalities. (Russian) **89h:65104**

Lapin, A. V. (*with* Solov′ev, D. O.) Solution of mesh obstacle problems. **89c:65074**

Lin, Ying Ju (*with* Zhuang, Jian Nan) An implemented version of a quasi-Newton type method for nonsmooth optimization. (Chinese. English summary) **89m:65064**

Nazareth, J. L. ★ Computer solution of linear programs. **89g:65078**

Ni, Qin A rank-1 update optimization method using decompositions of indefinite symmetric matrices and curvilinear search. (Chinese. English summary) **89e:65063**

Nichols, N. K. *see* **Barlow, J. L.; et al., 89h:65100**

Plaksiĭ, Z. T. *see* **Balashova, S. D., 89m:65059**

Plemmons, Robert J. *see* **Barlow, J. L.; et al., 89h:65100**

Raghavan, Prabhakar (*with* Thompson, C. D.) Randomized rounding: a technique for provably good algorithms and algorithmic proofs. **89b:65153**

Schnabel, Robert B. *see* **Byrd, Richard H.; et al., 89f:65069**

Shultz, Gerald A. *see* **Byrd, Richard H.; et al., 89f:65069**

Solov′ev, D. O. *see* **Lapin, A. V., 89c:65074**

Stoer, J. (*with* Tapia, R. A.) On the characterization of q-superlinear convergence of quasi-Newton methods for constrained optimization. **89g:65079**

Tapia, R. A. *see* **Stoer, J., 89g:65079**

Thompson, C. D. *see* **Raghavan, Prabhakar, 89b:65153**

Toint, Ph. L. *see* **Conn, A. R.; et al., 89e:65061**

Trenëv, N. N. Some algorithms for the agreement of particular solutions in distributed systems. (Russian) **89b:65154**

Tretter, Marietta J. *see* **Dinkel, John J.; et al., 89m:65060**

Utkin, S. L. *see* **Hoàng Tụy; et al., 89e:65062**

Vasil′ev, F. P. *see* **Kovács, Margit, 89h:65103**

Wang, Kong Ming *see* **Chen, Kai Zhou, 89j:65049**

Wong, Danny *see* **Dinkel, John J.; et al., 89m:65060**

Wright, Stephen Joseph Convergence of projected Hessian approximations in quasi-Newton methods for the nonlinear programming problem. **89h:65105**

Zhao, Feng Zhi An algorithm for unconstrained optimization. (Chinese. English summary) **89i:65066**

Zhuang, Jian Nan *see* **Lin, Ying Ju, 89m:65064**

Žilinskas, Antanas ★ Глобальная оптимизация. (Russian) [Global optimization] **89e:65064**

Items with secondary classifications in 65K05

Abadie, J. (*with* Salhi, Y.) Sur la dérivation numérique en optimisation. (English summary) [On numerical derivation in optimization] **89f:90129**

Adler, Ilan (*with* Karp, Richard M.; Shamir, Ron) A simplex variant solving an $m \times d$ linear program in $O(\min(m^2, d^2))$ expected number of pivot steps. **89m:90094**

Anstreicher, Kurt M. Linear programming and the Newton barrier flow. **89h:90139**

Antonyuk, A. A. (*with* Danilin, Yu. M.) The use of conjugate directions in methods of quasi-Newton type. (Russian) **89f:90131**

Ašić, M. D. (*with* Kovačević-Vujčić, V. V.) An implementation of a semi-definite programming method to Chebyshev approximation problems. **89m:49060**

— (*with* Kovačević-Vujčić, V. V.) An interior semi-infinite programming method. **89k:90095**

Auslender, A. A. (*with* Crouzeix, J.-P.; Fedit, P.) Penalty-proximal methods in convex programming. **89d:90161**

Baranovskiĭ, A. I. An iterational algorithm for solving a linear programming problem. **89m:90095**

Belash, K. N. (*with* Tret′yakov, A. A.) Methods for solving degenerate problems. (Russian) **89k:65066**

Belova, I. V. (*with* Zaikina, G. M.) Numerical comparison of some nonlinear optimization methods. (Russian) **89g:90183**

Bernau, Heinz Ein neues sequentielles quadratisches Optimierungsverfahren. [A new sequential quadratic optimization method] **89f:90112**

Blum, Lenore A new simple homotopy algorithm for linear programming. I. **89h:90140**

Bornstein, Claudio T. (*with* Rust, R.) Minimizing a sum of staircase functions under linear constraints. **89f:90045**

Bulatov, V. P. Methods for solving multiextremal problems (global search). (Russian) **89d:90180**

(Burdakov, O. P.) *see* **Dennis, John E., Jr., 89j:65002**

Burke, James V. (*with* Moré, Jorge J.) On the identification of active constraints. **89i:90068**

Burmeister, W. (*with* Dietze, Siegfried; Hess, Walter Paul; Schmidt, Jochen W.) Solution of a class of weakly coupled programs via dualization, and applications. **89j:90200**

Byers, Ralph (*with* Nash, Stephen G.) Approaches to robust pole assignment. **89m:93033**

Byrd, Richard H. (*with* Schnabel, Robert B.; Shultz, Gerald A.) Parallel quasi-Newton methods for unconstrained optimization. **89k:90139**

Calamai, Paul H. (*with* Moré, Jorge J.) Projected gradient methods for linearly constrained problems. **89f:90132**

— (*with* Moré, Jorge J.) Quasi-Newton updates with bounds. **89f:65059**

Castelli, M. *see* **Marsili-Libelli, S., 89a:90083**

Censor, Yair (*with* Elfving, Tommy; Herman, Gabor T.) Special-purpose algorithms for linearly constrained entropy maximization. **89d:92011**

Chang, Shi Wei (*with* Lin, Fu Rong) Extension of linearly independent systems of vectors. (Chinese) **89c:15011**

Chen, Guang Jun A gradient projection algorithm for optimization problems with general constraints. (Chinese. English summary) **89f:90133**

Chen, Qi Long A gradient acceleration method for solving unconstrained minimization problems. (Chinese. English summary) **89e:90172**

Coleman, Thomas F. A chordal preconditioner for large-scale optimization. **89d:90141**

Conforti, D. *see* **Grandinetti, L., 89k:90166**

Conn, A. R. (*with* Gould, N. I. M.; Toint, Ph. L.) Global convergence of a class of trust region algorithms for optimization with simple bounds. **89h:90192**

Crouzeix, J.-P. *see* **Auslender, A. A.; et al., 89d:90161**

Danilin, Yu. M. A method of gradient type for minimization of nonsmooth penalty functions. **89m:90137**

— *see also* **Antonyuk, A. A., 89f:90131**

De Leone, R. (*with* Mangasarian, O. L.) Asynchronous parallel successive overrelaxation for the symmetric linear complementarity problem. **89k:90158**

— *see also* **Mangasarian, O. L., 89i:90089**

Dennis, John E., Jr. (*with* Schnabel, Robert B.) ★ Численные методы безусловной оптимизации и решения нелинейных уравнений. (Russian) [Numerical methods for unconstrained optimization and solutions of nonlinear equations] **89j:65002**

Dietze, Siegfried *see* **Burmeister, W.; et al., 89j:90200**

Di Pillo, G. (*with* Grippo, L.) Recent results on nondifferentiable exact penalty functions. **89k:90140**

— (*with* Grippo, L.) On the exactness of a class of nondifferentiable penalty functions. **89h:90193**

Dixon, L. C. W. (*with* Price, R. C.) Numerical experience with the truncated Newton method for unconstrained optimization. **89e:90174**

Dodu, J. C. (*with* Huard, P.) Méthodes de quasi-Newton sous contraintes non linéaires: algorithmes à convergence locale superlinéaire. (English summary) [Quasi-Newton methods in the nonlinearly constrained case: locally and superlinearly convergent algorithms] **89i:90070**

Drexl, A. A simulated annealing approach to the multiconstraint zero-one knapsack problem. (German summary) **89a:90086**

Dunn, J. C. A projected Newton method for minimization problems with nonlinear inequality constraints. **89g:90189**

Egorushkin, A. A. *see* **Tikhonov, A. N.; et al., 89d:90114**

Elfving, Tommy *see* **Censor, Yair; et al., 89d:92011**

Elster, K.-H. (*with* Reinhardt, Rüdiger) Über Abstiegsmethoden in Lösungsverfahren der nichtlinearen Optimierung. [On descent methods in solution procedures of nonlinear programming] **89d:90187**

Ermakov, S. M. (*with* Zhiglyavskiĭ, A. A.; Kondratovich, M. V.) Comparison of certain procedures for random search for a global extremum. (Russian) **89m:90148**

Escudero, L. F. An algorithm for obtaining the multivariate stepsize in linearly constrained nonlinear programming. (Spanish. English summary) **89a:90122**

Ester, Jochen ★ Systemanalyse und mehrkriterielle Entscheidung. (German) [Systems analysis and multicriterial decision] **89f:90164**

Evans, David J. (*with* Li, Chang Jun) Numerical aspects of the generalized CG-method applied to least squares problems. (German summary) **89m:65043**

Evtushenko, Yu. G. (*with* Potapov, M. A.) Numerical methods for solving multicriteria problems. (Russian) **89e:90195**

— Accuracy estimates in penalty function methods. (Russian) **89j:90217**

— *see also* **Dennis, John E., Jr., 89j:65002**

Faigle, Ulrich (*with* Schrader, Rainer) On the convergence of stationary distributions in simulated annealing algorithms. **89b:90173**

Fedit, P. *see* **Auslender, A. A.; et al., 89d:90161**

Fel′genkhauèr, Ursula Eine Variante der ableitungsfreien Quadratsummenminimierung. [A variant of derivative-free minimization of square sums] **89m:90124**

(Flachs, Jacob) *see* **Pang, Ying**, (Not in MR)

Ford, J. A. (*with* Saadallah, A. F.) A rational function model for unconstrained optimization. **89e:90175**

Forgó, Ferenc ★ Nonconvex programming. **89m:90138**

Fukushima, Masao *see* **Itoh, Takehisa; et al., 89e:90097**

Galperin, E. A. Precision, complexity, and computational schemes of the cubic algorithm. **89h:90197**

Ganshin, G. S. ★ Методы оптимизации и решение уравнений. (Russian) [Methods for the optimization and solution of equations] **89i:90047**

Geetha, S. (*with* Vartak, M. N.) Time-cost tradeoff in a three-dimensional assignment problem. **89m:90108**

Gfrerer, H. Hölder continuity of solutions of perturbed optimization problems under Mangasarian-Fromovitz constraint qualification. **89a:90141**

Gilbert, Jean Charles A step-size selection procedure for equality constrained optimization. (French summary) **89e:90176**

— Mise à jour de la métrique dans les méthodes de quasi-Newton réduites en optimisation avec contraintes d'égalité. (English summary) [Update of the metric in reduced quasi-Newton methods in optimization with equality constraints] **89g:90191**

Glick, J. H. *see* **Pardalos, P. M.; et al., 89d:90158**

Gould, N. I. M. *see* **Conn, A. R.; et al., 89h:90192**

Grandinetti, L. (*with* Conforti, D.) Numerical comparisons of nonlinear programming algorithms on serial and vector processors using automatic differentiation. **89k:90166**

Grippo, L. *see* **Di Pillo, G., 89h:90193** *and* **89k:90140**

Grzegórski, S. M. Multilevel least-change Newton-like methods for equality constrained optimization problems. **89a:90124**

Guo, Jian[1] Invariance and convergence of a modified conjugate gradient method. (Chinese) (Not in MR)

Gupal, A. M. *see* **Mikhalevich, V. S.; et al., 89f:90148**

Gurvich, V. A. Equivalence of problems of calculating schemes, optimal flows and static equilibrium. (Russian) **89g:90170**

Hager, W. W. (*with* Presler, Dwayne L.) Dual techniques for minimax. **89b:90184**

Han, Ji Ye *see* **Yue, Min Yi**, (Not in MR)

Han, Shih-Ping (*with* Lou, Gang) A parallel algorithm for a class of convex programs. **89e:90159**

He, Guang Zong Discussion of an improvement in the gradient projection method. (Chinese) (Not in MR)

Helgason, R. V. (*with* Kennington, Jeff; Zaki, H. A.) A parallelization of the simplex method. **89h:90143**

Herman, Gabor T. *see* **Censor, Yair; et al., 89d:92011**

Hess, Walter Paul *see* **Burmeister, W.; et al., 89j:90200**

Hoàng Tụy (*with* Nguyen Van Thuong) On the global minimization of a convex function under general nonconvex constraints. **89j:90222**

Horst, Reiner Deterministic global optimization with partition sets whose feasibility is not known: application to concave minimization, reverse convex constraints, DC-programming, and Lipschitzian optimization. **89i:90073**

Huard, P. *see* **Dodu, J. C., 89i:90070**

Ibaraki, Toshihide (*with* Katoh, Naoki) ★ Resource allocation problems. **89e:90179**

— *see also* **Itoh, Takehisa; et al., 89e:90097**

Itoh, Takehisa (*with* Fukushima, Masao; Ibaraki, Toshihide) An iterative method for variational inequalities with application to traffic equilibrium problems. (Japanese summary) **89e:90097**

Iusem, Alfredo N. (*with* Moledo, Leonardo) A finitely convergent method of simultaneous subgradient projections for the convex feasibility problem. (Portuguese summary) **89a:90111**

Jakeš, Jaromír A numerical method of fitting a multiparameter nonlinear function to experimental data in the L_1 norm. (Russian and Czech summaries) **89d:65015**

Kalker, J. J. Contact mechanical algorithms. **89c:73084**

Karp, Richard M. *see* **Adler, Ilan; et al., 89m:90094**

Kashina, O. A. *see* **Zabotin, Ya. I., 89g:90204**

Katkauskaitė, Aldona *see* **Žilinskas, Antanas, 89h:90173**

Katoh, Naoki *see* **Ibaraki, Toshihide, 89e:90179**

Kennington, Jeff *see* **Helgason, R. V.; et al., 89h:90143**

Kiwiel, K. C. A direct method of linearization for continuous minimax problems. **89d:90193**

Kleinmichel, H. (*with* Schönefeld, K.) Newton-type methods for nonlinearly constrained programming problems. Algorithms and theory. **89j:90223**

Klincewicz, John G. Implementing an "exact" Newton method for separable convex transportation problems. **89j:90178**

Kolmychevskiĭ, A. V. Asymptotic behavior and acceleration of convergence of a stationary gradient method. (Russian) **89g:90195**

Kondratovich, M. V. *see* **Ermakov, S. M.; et al., 89m:90148**

Konysheva, V. M. (*with* Shil'man, S. V.) Estimates for the rate of convergence of random descent algorithms. (Russian) **89g:90196**

Körner, F. A tight bound for the Boolean quadratic optimization problem and its use in a branch and bound algorithm. (German summary) **89j:90183**

— (*with* Luderer, Bernd) A simultaneous method for checking second-order Kuhn-Tucker conditions for equality constrained nonlinear programming problems. **89j:90224**

Kovačević-Vujčić, V. V. *see* **Ašić, M. D., 89k:90095** *and* **89m:49060**

Kryazhimskiĭ, A. V. (*with* Osipov, Yu. S.) On the regularization of a convex extremal problem with inexactly given constraints. Application to an optimal control problem with phase constraints. (Russian) **89f:49032**

Kudin, V. I. *see* **Volkovich, V. L.; et al., 89m:90107**

Kummer, Bernd Ein Zugang zur quantitativen Stabilität in der nichtlinearen Optimierung: Variation von Kakutani-Abbildungen. [An approach to quantitative stability in nonlinear optimization: variation of Kakutani mappings] **89f:90166**

Lazarev, A. V. Convergence of the *t*-method for solving nonlinear minimax problems. (Russian. English summary) **89d:90195**

Li, Chang Jun *see* **Evans, David J., 89m:65043**

Lin, Fu Rong *see* **Chang, Shi Wei, 89c:15011**

Litvinchev, I. S. A decomposition method for optimization problems not possessing a block-separable structure. (Russian) **89a:90112**

Lou, Gang *see* **Han, Shih-Ping, 89e:90159**

Lucidi, S. A finite algorithm for the least two-norm solution of a linear program. **89c:90071**

Luderer, Bernd (*with* Schwartz, Bernd) Decomposition in convex programming and optimal control problems. **89a:49035**

— *see also* **Körner, F., 89j:90224**

Magnanti, T. L. (*with* Orlin, J. B.) Parametric linear programming and anti-cycling pivoting rules. **89h:90145**

Mangasarian, O. L. (*with* De Leone, R.) Parallel gradient projection successive overrelaxation for symmetric linear complementarity problems and linear programs. **89i:90089**

— *see also* **De Leone, R., 89k:90158**

Marsili-Libelli, S. (*with* Castelli, M.) An adaptive search algorithm for numerical optimization. **89a:90083**

Martínez, J. M. An accelerated successive orthogonal projections method for solving large-scale linear feasibility problems. **89d:65044**

Mayne, D. Q. *see* **Meewella, C. C., 89h:90203**

Meewella, C. C. (*with* Mayne, D. Q.) An algorithm for global optimization of Lipschitz continuous functions. **89h:90203**

Mifflin, Robert (*with* Strodiot, J.-J.) A bracketing technique to ensure desirable convergence in univariate minimization. **89m:90142**

Mikhalevich, V. S. (*with* Gupal, A. M.; Norkin, V. I.) ★ Методы невыпуклой оптимизации. (Russian) [Nonconvex optimization methods] **89f:90148**

— (*with* Redkovskiĭ, N. N.; Perekatov, A. E.) Methods for the minimization of functions on a sphere and their applications. (Russian. English summary) **89e:90183**

Mogilevskaya, R. L. (*with* Shvartsman, P. A.) On the correction of free terms of an inconsistent system of linear inequalities. (Russian) **89f:90084**

Moledo, Leonardo *see* **Iusem, Alfredo N., 89a:90111**

Molodtsov, D. A. ★ Устойчивость принципов оптимальности. (Russian) [Stability of optimality principles] **89d:90216**

Moré, Jorge J. *see* **Calamai, Paul H., 89f:65059; 89f:90132** *and* **Burke, James V., 89i:90068**

Mulvey, John M. *see* **Zenios, Stavros A., 89d:90231**

Narula, Subhash C. (*with* Wellington, John F.) An efficient algorithm for the MSAE and the MMAE regression problems. (Not in MR)

Nash, John Christopher (*with* Nash, Stephen G.) Compact algorithms for function minimization. **89j:90227**

Nash, Stephen G. *see* **Nash, John Christopher, 89j:90227** *and* **Byers, Ralph, 89m:93033**

Nemchenko, K. I. Extension of the feasible domain of auxiliary problems by a linearization method. (Russian) **89h:90205**

Nemirovskiĭ, A. S. *see* **Nesterov, Yu. E., 89k:90130**

Nesterov, Yu. E. (*with* Nemirovskiĭ, A. S.) Polynomial barrier methods in convex programming. (Russian) **89k:90130**

Nguyen Van Thoai A modified version of Tuy's method for solving d.c. programming problems. **89k:90146**

Nguyen Van Thuong *see* **Hoàng Tụy, 89j:90222**

Niederreiter, Harald Good lattice points for quasirandom search methods. **89f:11112**

Noor, Muhammad Aslam Convergence analysis of the iterative methods for quasicomplementarity problems. **89f:49008**

Norkin, V. I. *see* **Mikhalevich, V. S.; et al., 89f:90148**

Orlin, J. B. *see* **Magnanti, T. L., 89h:90145**

Osipov, Yu. S. *see* **Kryazhimskiĭ, A. V., 89f:49032**

Pang, Ying (*with* Wu, Shi Quan) Comment: "On the convergence, invariance and related aspects of a modification of Huang's algorithm" [J. Optim. Theory Appl. **37** (1982), no. 3, 315–341; MR 83g:90122] by J. Flachs. (Chinese) (Not in MR)

Panin, V. M. Finite penalty methods in equality constrained problems. (Russian) **89h:90210**

Papalambros, Panos Y. (*with* Wilde, Douglass J.) ★ Principles of optimal design. **89e:90215**

Pardalos, P. M. (*with* Glick, J. H.; Rosen, J. B.) Global minimization of indefinite quadratic problems. (German summary) **89d:90158**

— Quadratic problems defined on a convex hull of points. **89d:90197**

— (*with* Rosen, J. B.) Global optimization approach to the linear complementarity problem. **89d:90226**

Penev, G. D. (*with* Roslyakov, A. P.) Application of a method of parametric functionals for nonlinear global optimization. (Russian. English summary) **89j:90229**

Penot, Jean-Paul About linearization, conization, calmness, openness and regularity. **89d:90236**

Perekatov, A. E. *see* **Mikhalevich, V. S.; et al., 89e:90183**

Pevnyĭ, A. B. Optimality of a spline algorithm for finding the maximum of a class of functions of several variables. **89e:90185**

Pham Trong Quat An exact penalty function algorithm using the operation of space dilation for constrained optimization with convex functions. (Russian and Polish summaries) **89c:90086**

Phillips, A. T. (*with* Rosen, J. B.) A parallel algorithm for solving the linear complementarity problem. **89j:90252**

— (*with* Rosen, J. B.) A parallel algorithm for constrained concave quadratic global minimization. **89j:90199**

Pintér, J. (*with* Szábo, János Adolph) Global optimization algorithms: theory and some applications. **89d:90198**

Polyak, R. Modified barrier and center methods. **89g:90199**

Poolla, K. R. *see* **Ting, T. C. T., 89h:90232**

Popov, L. D. Application of a maximin criterion for the correction of improper problems of convex programming. (Russian) **89h:90179**

Potapov, M. A. *see* **Evtushenko, Yu. G., 89e:90195**

Powell, M. J. D. On error growth in the Bartels-Golub and Fletcher-Matthews algorithms for updating matrix factorizations. **89c:65039**

Presler, Dwayne L. *see* **Hager, W. W., 89b:90184**

Price, R. C. *see* **Dixon, L. C. W., 89e:90174**

Rao, M. R. *see* **Sterbin Gottlieb, Elsie, 89f:90091**

Raouf, Samir S. (*with* Rashid, Najat M.) A new direct search optimization method. **89g:90200**

Rashid, Najat M. *see* **Raouf, Samir S., 89g:90200**

Redkovskiĭ, N. N. *see* **Mikhalevich, V. S.; et al., 89e:90183**

Reinhardt, Rüdiger *see* **Elster, K.-H., 89d:90187**

Renegar, James A polynomial-time algorithm, based on Newton's method, for linear programming. **89b:90130**

Repin, S. I. Minimization of a class of nondifferentiable functionals by means of the relaxation method. (Russian) **89a:90113**

Ringuest, Jeffrey L. Substitute derivatives in unconstrained optimization: a comparison of finite difference and response surface approximations. **89e:90188**

Rosen, J. B. *see* **Pardalos, P. M.; et al., 89d:90158**; **89d:90226**; **Phillips, A. T., 89j:90199** *and* **89j:90252**

Roslyakov, A. P. *see* **Penev, G. D., 89j:90229**

Rubal′skiĭ, G. B. The bisection method in the pit-filling problem. (Russian) **89e:90189**

Rückmann, Jan (*with* Tammer, Klaus) Theoretical foundations of two-level methods in nonconvex optimization. **89f:90155**

Rust, R. *see* **Bornstein, Claudio T., 89f:90045**

Saadallah, A. F. *see* **Ford, J. A., 89e:90175**

Sahba, M. Algorithms for solving nonlinear inequalities in a finite number of iterations using approximate derivatives. **89a:90137**

Salhi, Y. *see* **Abadie, J., 89f:90129**

Schmidt, Jochen W. Specially structured convex optimization problems: computational aspects and applications. **89f:90119**

— *see also* **Burmeister, W.; et al., 89j:90200**

Schnabel, Robert B. *see* **Dennis, John E., Jr., 89j:65002** *and* **Byrd, Richard H.; et al., 89k:90139**

Schönefeld, K. *see* **Kleinmichel, H., 89j:90223**

Schrader, Rainer *see* **Faigle, Ulrich, 89b:90173**

Schwartz, Bernd *see* **Luderer, Bernd, 89a:49035**

Şerban, R. Solving some systems of nonlinear equations by means of function optimizing algorithms. **89f:90157**

Shamir, Ron *see* **Adler, Ilan; et al., 89m:90094**

Shil′man, S. V. *see* **Konysheva, V. M., 89g:90196**

Shultz, Gerald A. *see* **Byrd, Richard H.; et al., 89k:90139**

Shvartsman, P. A. *see* **Mogilevskaya, R. L., 89f:90084**

Sikorski, Jarosław Quasisubgradient algorithms for calculating surrogate constraints. **89b:90148**

Skulimowski, Andrzej M. J. A sufficient condition for Θ-minimality of distance scalarization procedures. **89m:90166**

Sloan, S. W. A steepest edge active set algorithm for solving sparse linear programming problems. **89h:90148**

Sniedovich, Moshe c-programming: a nonlinear parametric optimization method. **89k:90154**

Snyman, J. A. A parameter-free multiplier method for constrained minimization problems. **89h:90214**

Sobol′, I. M. Search for extremal values of a function of several variables that satisfies a general Lipschitz condition. (Russian) **89h:90215**

Sorokin, N. V. A modified Steuer procedure for solving a problem of linear multicriteria programming. (Russian) **89d:90221**

Sreedharan, V. P. ε-subgradient projection algorithm. **89a:90138**

Sterbin Gottlieb, Elsie (*with* Rao, M. R.) Facets of the knapsack polytope derived from disjoint and overlapping index configurations. **89f:90091**

Strodiot, J.-J. *see* **Mifflin, Robert, 89m:90142**

Sun, Shi Jie A new algorithm for successive orthogonalization. (Chinese) (Not in MR)

Szábo, János Adolph *see* **Pintér, J., 89d:90198**

Tammer, Klaus *see* **Rückmann, Jan, 89f:90155**

Tanabe, Kunio Centered Newton method for mathematical programming. **89j:90231**

Tewarson, R. P. *see* **Zhang, Yin^1, 89f:90161**

Tikhonov, A. N. (*with* Egorushkin, A. A.; Zyabrev, N. B.) A two-factor problem of the reequipping of a branch for joint production. (Russian) **89d:90114**

Ting, T. C. T. (*with* Poolla, K. R.) Upper bounds and approximate solutions for multidisk problems. **89h:90232**

Todd, M. J. Improved bounds and containing ellipsoids in Karmarkar's linear programming algorithm. **89k:90100**

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65K10 Optimization and variational techniques

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Golubev, Yu. F. (*with* Grushevskiĭ, A. V.; Khaĭrullin, R. Z.) Control laws that ensure maximal range for the descent of a satellite in the atmosphere. (Russian. English summary) **89b:65156**

Grushevskiĭ, A. V. *see* **Golubev, Yu. F.; et al., 89b:65156**

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Ip, Chi Ming On least-change secant updates in factored form. **89e:65065**

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Khaĭrullin, R. Z. *see* **Golubev, Yu. F.; et al., 89b:65156**

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Ratschek, Helmut (*with* Rokne, J. G.) Efficiency of a global optimization algorithm. **89g:65080**

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Rokne, J. G. *see* **Ratschek, Helmut, 89g:65080**

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Shi, Xing Zhong *see* **You, Zhao Yong; et al., 89c:65076**

(Skorokhodov, A. L.) *see* **Lebedev, V. I., 89b:65159**

Solov′ev, D. O. *see* **Lapin, A. V., 89b:65158**

Steihaug, Trond *see* **Fontecilla, R.; et al., 89b:65155**

Tapia, R. A. *see* **Fontecilla, R.; et al., 89b:65155**

Tsay, Shuh Chuan (*with* Li, Tsu T'ien) Solution of variational problems via general orthogonal polynomials. **89b:65162**

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hu, Si Quan *see* **You, Zhao Yong, 89f:65073**

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leksandrov, Vladimir Mikhaĭlovich Solution of optimal control problems on the basis of the quasi-optimal control method. (Russian) **89e:93081**
l-Hassan, Q. *see* **Poore, A. B., 89e:90186**
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niţa, Sebastian^2 Approximating linear optimal control problems via Trotter formula. **89k:93077**
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ancora-Imbert, M. C. (*with* Chow, P. L.; Menaldi, José-Luis) On the numerical approximation of an optimal correction problem. **89i:93127**
arbu, Viorel Approximation of the Hamilton-Jacobi equations via Lie-Trotter product formula. **89m:49046**
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urkovskaya, V. L. *see* **Makarov, Vladimir Leonidovich; et al., 89b:65298**
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aarna, A. *see* **Haslinger, J.; et al., 89j:49001**
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arwan, Mark H. *see* **Ram, Balasubramanian; et al., 89f:90102**
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ayne, D. Q. *see* **Smith, Stephen Bevis, 89m:49058**
el′nik, V. S. *see* **Ivanenko, V. I., 89g:93031**
enaldi, José-Luis *see* **Bancora-Imbert, M. C.; et al., 89i:93127**
oore, R. E. (*with* Ratschek, Helmut) Inclusion functions and global optimization. II. **89j:90226**
eittaanmäki, Pekka *see* **Haslinger, J.; et al., 89j:49001**
guyen, V. H. *see* **Strodiot, J.-J., 89j:49007**
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Plöchinger, E. *see* **Marti, K., 89j:90194**
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Rubio, J. E. *see* **Ibiejugba, M. A., 89k:49025**
Russak, I. B. *see* **Goldstein, A. A., 89a:90110**
Sachs, E. W. *see* **Kelley, C. T., 89g:49043**
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Tirmizi, S. I. A. *see* **Noor, Muhammad Aslam**, (Not in MR)
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Stoer, J. *see* **Jarre, F.; et al., 89e:90160**
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65Lxx Ordinary differential equations

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Items listed otherwise than by author

Numerical solution of ordinary differential equations ★ Sho bibun hoteishiki no suchi kaiho. (Japanese) [Numerical solution of ordinary differential equations] **89c:65008**
Recent theoretical results in numerical ordinary differential equations ★ Recent theoretical results in numerical ordinary differential equations. (Not in MR)
Special issue:
  Recent theoretical results in numerical ordinary differential equations ★ Recent theoretical results in numerical ordinary differential equations. (Not in MR)
Symposium:
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65L05 Initial value problems

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Adomian, George A. (*with* Rach, R.) Evaluation of integrals by decomposition. **89g:65081**
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Cordes, D. *see* **Adams, Ernst Wilhelm; et al., 89i:65068**
Curtis, A. R. Stiff ODE initial value problems and their solution. **89b:65168**
Danilov, V. A. Two-sided and interval methods for solving linear ordinary differential equations with account taken of the phenomenon of the stiffness of systems. (Russian) **89b:65169**
Dekker, K. *see* **Liu, M. Z.; et al., 89a:65109**
Demirchyan, K. S. (*with* Rakitskiĭ, Yu. V.) Apropos of the stiff system theory. **89a:65104**
Derr, L. (*with* Outlaw, C.; Sarafyan, D.) Higher order continuous solution of $y'' = f(x,y,y')$ and $y'' = f(x,y)$ initial value problems. **89k:65081**
— *see also* **Sarafyan, D.; et al., 89c:65080**
Desai, Dilip (*with* Potter, O. E.) Use of asymptotic cases in the solution of ordinary differential equations with constant coefficients: case study of a tridiagonal system. **89e:65068**
Deuflhard, P. (*with* Hairer, E.; Zugck, J.) One-step and extrapolation methods for differential-algebraic systems. **89e:65069**
Drakhlina, N. Sh. A modification of the Runge-Kutta method. (Russian) (*see* **89c:00008**)
Durakova, V. K. (*with* Novikov, Vyacheslav Aleksandrovich; Novikov, E. A.) Explicit methods of Runge-Kutta type of first order of accuracy with a given size for the interval of stability. (Russian) **89e:65070**
Eirola, Timo (*with* Nevanlinna, Olavi) What do multistep methods approximate? **89i:65069**
Elrod, M. *see* **Adomian, George A.; et al., 89e:65066**
Engquist, Björn *see* **Brenan, Kathryn E., 89a:65102**
Enright, W. H. *see* **Muir, P. H., 89a:65110**
Evans, David J. A class of nonlinear O.D.E. methods based on Euler formulae. **89a:65105**
— (*with* Sanugi, B. B.) A nonlinear trapezoidal formula for the solution of initial value problems. **89c:65077**
— *see also* **Sanugi, B. B., 89e:65077**
Evans, S. J. *see* **Thomas, Ruth Margaret**, (Not in MR)
Fatunla, Simeon Ola ★ Numerical methods for initial value problems in ordinary differential equations. **89j:65053**
Fedorenko, R. P. On numerical integration of stiff systems. **89b:65170**
Fine, J. M. Low order practical Runge-Kutta-Nyström methods. (German summary) **89c:65078**
Franco, J. M. (*with* Palacios, M.) Une classe de méthodes numériques pour l'intégration directe d'équations différentielles du type $y'' = f(t,y,y')$. [A class of numerical methods for the direct integration of differential equations of type $y'' = f(t,y,y')$] **89g:65084**
Fuchs, P. M. On the stability of spline-collocation methods of multivalue type. **89e:65071**
Gekeler, E. W. On implicit Runge-Kutta methods with higher derivatives. **89k:65082**
Gerasimov, B. P. (*with* Kul′chitskaya, I. A.; Mingaleev, G. S.; Pestryakova, G. A.) On construction of linear multistep methods for stiff and nonstiff ODE. **89b:65171**
Gheri, G. (*with* Marzulli, P.) Error bounds for initial value problems integrating the principal error equation. **89e:65072**
Gladwell, I. (*with* Thomas, Ruth Margaret) Variable-order variable-step algorithms for second-order systems. II. The codes. **89b:65182b**
— *see also* **Brankin, R. W.; et al., 89b:65166** *and* **Thomas, Ruth Margaret, 89b:65182a**
Goel, Rakesh *see* **Jain, Rajinder Kumar, 89i:65071**
Gray, William G. *see* **Kinnmark, Ingemar P. E., 89b:65175**
Gudovich, N. N. (*with* Terteryan, A. A.) Stability of block difference schemes for parabolic equations. **89f:65074**
Gur′yanov, A. E. Exact numerical solution of systems of linear stationary ordinary differential equations. (Russian) **89f:65075**
Gustafsson, Kjell (*with* Lundh, Michael; Söderlind, Gustaf) A PI stepsize control for the numerical solution of ordinary differential equations. **89e:65073**
Hairer, E. (*with* Lubich, C.) Extrapolation at stiff differential equations. **89m:65066**
— *see also* **Deuflhard, P.; et al., 89e:65069**
Hall, George (*with* Higham, Desmond) Analysis of stepsize selection schemes for Runge-Kutta codes. **89m:65067**
He, Yuan Ping (*with* Wang, Neng Chao) The parallel Newton-Raphson iterative method for linear multistep formulas. (Chinese. English summary) **89i:65070**
Heinig, Georg (*with* Jankowski, P.; Rost, Karla) Fast inversion algorithms of Toeplitz-plus-Hankel matrices. **89j:65054**
Higham, Desmond *see* **Hall, George, 89m:65067**
Hoff, C. (*with* Pahl, P. J.) Development of an implicit method with numerical dissipation from a generalized single-step algorithm for structural dynamics. **89b:65172**
Holley, W. E. *see* **Yuh, J., 89d:65070**
Hundsdorfer, W. H. A note on monotonicity of a Rosenbrock method. **89e:65074**
Jackson, Kenneth R. The convergence of integrand-approximation formulas for the numerical solution of IVPs for ODEs. **89b:65173**
Jahn, K.-U. Enclosure functions for the solutions of initial value problems. **89h:65111**
Jain, Mahendra Kumar A modification of the Stiefel-Bettis method for nonlinearly damped oscillators. **89c:65079**
Jain, Rajinder Kumar Single step methods for general second order singular initial value problems with spherical symmetry. **89k:65083**
— (*with* Goel, Rakesh) Superstable single-step methods for second-order initial value problems. **89i:65071**
— Sixth-order superstable two-step methods for second-order initial-value problems. (Not in MR)
— (*with* Kumar, Rajive^2) A sixth-order modification of the Stiefel-Bettis method for nonlinearly damped oscillators. **89m:65068**

Jankowski, P. *see* **Heinig, Georg; et al., 89j:65054**
Jankowski, Tadeusz On numerical solution of ordinary differential equations with discontinuities. (Russian and Czech summaries) **89k:65084**
Kacewicz, B. Z. Optimal solution of ordinary differential equations. **89a:65106**
— Minimum asymptotic error of algorithms for solving ODE. **89k:65085**
Kairytė, Genė (*with* Norvaišas, Saulius; Čiegis, Raimondas) On the problem of the numerical integration of an ordinary differential equation. (Russian. English and Lithuanian summaries) **89b:65174**
Kalaida, A. F. (*with* Yudenko, G. P.) Matrix methods for solving initial value problems for equations with delays. (Ukrainian. Russian summary) (Not in MR)
Karakashian, Ohannes A. (*with* Rust, William) On the parallel implementation of implicit Runge-Kutta methods. **89h:65112**
Khilenko, V. V. Convergence of the method of reduction of order for solving stiff systems of linear differential equations. (Russian. English summary) **89a:65107**
Kinnmark, Ingemar P. E. (*with* Gray, William G.) Fourth-order accurate one-step integration methods with large imaginary stability limits. **89b:65175**
Kirchgraber, U. An ODE-solver based on the method of averaging. **89k:65086**
Kramer, Mark A. *see* **Leis, Jorge R., 89b:65176**
Kuang, Jiao Xun (*with* Xiang, Jia Xiang) A class of modified BDF methods. (Chinese. English summary) **89g:65085**
— *see also* **Xiang, Jia Xiang, 89i:65073**
Kul'chitskaya, I. A. *see* **Gerasimov, B. P.; et al., 89b:65171**
Kumar, Rajive² *see* **Jain, Rajinder Kumar, 89m:65068**
Lasagni, F. M. Canonical Runge-Kutta methods. (Not in MR)
Leis, Jorge R. (*with* Kramer, Mark A.) The simultaneous solution and sensitivity analysis of systems described by ordinary differential equations. **89b:65176**
Levykin, A. I. (*with* Novikov, E. A.) ★ O (m,k)-методе второго порядка точности для решения неявных систем обыкновенных дифференциальных уравнений. (Russian) [An (m,k)-method of second order of accuracy for solving implicit systems of ordinary differential equations] **89h:65113**
Li, Shou Fu The nonlinear stability of explicit and diagonally implicit Runge-Kutta methods. (Chinese. English summary) **89h:65114**
— Stability criteria for Runge-Kutta methods. (Chinese. English summary) **89a:65108**
— Stability criteria for one-leg methods and linear multistep methods. (Chinese. English summary) **89k:65087**
Li, Wang Yao An automatic program suitable for stiff and highly oscillatory ordinary differential equations. (Chinese. English summary) **89e:65075**
Lie, Ivar (*with* Nørsett, Syvert P.) Superconvergence for multistep collocation. **89m:65069**
Liseĭkin, V. D. (*with* Petrenko, V. E.) ★ О численном решении нелинейных сингулярно-возмущенных задач. (Russian) [Numerical solution of nonlinear singularly perturbed problems] **89g:65086**
Liu, M. Z. (*with* Dekker, K.; Spijker, M. N.) Suitability of Runge-Kutta methods. **89a:65109**
Lohner, Rudolf Josef *see* **Adams, Ernst Wilhelm; et al., 89i:65068**
Lubich, C. *see* **Hairer, E., 89m:65066**
Lundh, Michael *see* **Gustafsson, Kjell; et al., 89e:65073**
Mandrik, P. A. *see* **Bobkov, V. V.; et al., 89h:65109**
Mao, Zu Fan *see* **Sun, Geng, 89a:65112**
Marinov, Corneliu Truncation errors for infinite linear systems. **89h:65115**
Marzulli, P. *see* **Gheri, G., 89e:65072**
Miekkala, Ulla (*with* Nevanlinna, Olavi) Sets of convergence and stability regions. **89i:65072**
— (*with* Nevanlinna, Olavi) Convergence of dynamic iteration methods for initial value problem. **89f:65076**
Mingaleev, G. S. *see* **Gerasimov, B. P.; et al., 89b:65171**
Model, R. Zur Integration über Unstetigkeiten in gewöhnlichen Differentialgleichungen. (English and Russian summaries) [On integration across discontinuities in ordinary differential equations] **89g:65087**
Muir, P. H. (*with* Enright, W. H.) Relationships among some classes of implicit Runge-Kutta methods and their stability functions. **89a:65110**
Mureşan, Marian A semi-explicit Runge-Kutta method. (*see* **89j:00023**)
Nakashima, Masaharu Pseudo-Runge-Kutta processes. **89b:65177**
Nekrasov, S. A. Construction of two-sided approximations to the solution of the Cauchy problem. (Russian) **89g:65088**
Nevanlinna, Olavi *see* **Miekkala, Ulla, 89f:65076; Eirola, Timo, 89i:65069** *and* **Miekkala, Ulla, 89i:65072**
van Niekerk, F. D. Rational one-step methods for initial value problems. (Not in MR)
Nørsett, Syvert P. *see* **Lie, Ivar, 89m:65069**
Norvaišas, Saulius *see* **Kairytė, Genė; et al., 89b:65174**
Novikov, E. A. *see* **Durakova, V. K.; et al., 89e:65070; Levykin, A. I., 89h:65113** *and* **Novikov, Vyacheslav Aleksandrovich, (89j:65008)**
Novikov, Vyacheslav Aleksandrovich (*with* Novikov, E. A.) Explicit methods of Runge-Kutta type with adaptive stability region. (*see* **89j:65008**)
— *see also* **Durakova, V. K.; et al., 89e:65070**
de Oliveira, Paula (*with* Patrício, Fernanda) Instability in linear multistep methods. **89k:65088**
O'Malley, R. E., Jr. On nonlinear singularly perturbed initial value problems. **89g:65089**
Outlaw, C. *see* **Sarafyan, D.; et al., 89c:65080** *and* **Derr, L.; et al., 89k:65081**
Pahl, P. J. *see* **Hoff, C., 89b:65172**
Pak, Ryong Ju On an estimate method of convergence degree for initial problem of second-order differential equation. (Korean. English summary) **89k:65089**
Palacios, M. *see* **Franco, J. M., 89g:65084**
Panovsky, J. (*with* Richardson, D. L.) A family of implicit Chebyshev methods for the numerical integration of second-order differential equations. **89g:65090**
Papageorgiou, G. S. Comparison of Runge-Kutta type methods of order five. **89e:65076**
— (*with* Simos, Th.; Tsitouras, Ch.) Some new Runge-Kutta methods with interpolation properties and their application to the magnetic-binary problem. **89k:65090**
Patrício, Fernanda *see* **de Oliveira, Paula, 89k:65088**
Pavel, Garofiţa A spline method for the numerical solution of nth-order linear differential equations. (Romanian. French summary) **89b:65178**
Pestryakova, G. A. *see* **Gerasimov, B. P.; et al., 89b:65171**
Petrenko, V. E. *see* **Liseĭkin, V. D., 89g:65086**
Potter, O. E. *see* **Desai, Dilip, 89e:65068**
Qin, Zeng Fu Algebraic criterion of consistency for general linear methods of ordinary differential equations. **89b:65179**
— On the numerical solution of steady Burgers' equation. (*see* **89j:65008**)
Rach, R. *see* **Adomian, George A.; et al., 89e:65066** *and* **89g:65081**
Rakitskiĭ, Yu. V. *see* **Demirchyan, K. S., 89a:65104**
Rao, Ponakala Srinivasa *see* **Chawla, M. M., 89k:65080**
Richardson, D. L. *see* **Panovsky, J., 89g:65090**
Rockswold, Gary K. Implementation of α-type multistep methods for stiff differential equations. **89d:65068**
Rost, Karla *see* **Heinig, Georg; et al., 89j:65054**
Rust, William *see* **Karakashian, Ohannes A., 89h:65112**
Salane, Douglas E. A stiff ODE solver for use in solving two-dimensional reaction-diffusion problems. **89g:65091**
Sanugi, B. B. (*with* Evans, David J.) A new fourth order Runge-Kutta formula for $y' = Ay$ with stepsize control. **89e:65077**
— *see also* **Evans, David J., 89c:65077**
Sarafyan, D. (*with* Outlaw, C.; Derr, L.) Continuous approximate solution of differential equations. **89c:65080**
— Families of continuous approximate processes for the solution of ordinary differential equations. **89k:65091**
— *see also* **Derr, L.; et al., 89k:65081**
Saxena, Anjula Solution of Cauchy's problem by deficient lacunary spline interpolants. **89h:65116**
Schneid, Josef Stability properties of collocation methods. **89c:65081**
Schneider, Claus Zur Analysis verallgemeinerter einfach-impliziter Runge-Kutta Verfahren. [On the analysis of generalized simply implicit Runge-Kutta methods] (Not in MR)
Scholz, Siegfried On the behaviour of m-stage ROW methods with global error estimation in the smooth phase of stiff problems. **89h:65117**
Serbin, S. M. *see* **Voss, David, 89g:65093**
Shah, S. A. P-stable modification of the Numerov method. (Not in MR)
Shampine, L. F. (*with* Zhang, Wen) Efficient integration of ordinary differential equations by transformation. **89g:65092**
— *see also* **Brankin, R. W.; et al., 89b:65166**
Sharma, Rakesh K. Numerical solutions to radial form of transistor equations. (Not in MR)
Shintani, Hisayoshi Eight-stage block one-step methods with two step-points. **89f:65077**
— On scaled one-step methods. **89b:65180**
Simos, Th. *see* **Papageorgiou, G. S.; et al., 89k:65090**
Skelboe, Stig Stability properties of backward differentiation multirate formulas. **89k:65092**
Söderlind, Gustaf *see* **Gustafsson, Kjell; et al., 89e:65073**
Spijker, M. N. A note on contractivity in the numerical solution of initial value problems. **89a:65111**
— *see also* **Liu, M. Z.; et al., 89a:65109**
Strehmel, K. *see* **Bruder, Jürgen; et al., 89d:65067** *and* **Weiner, R., 89g:65094**
Subrahmanyam, M. B. Simple scheme for the integration of stiff differential equations. (Not in MR)
Sun, Geng (*with* Mao, Zu Fan) On a class of nonlinear methods for ordinary differential equations. **89a:65112**
Suris, Yu. B. Some properties of methods for the numerical integration of systems of the form $\ddot{x} = f(x)$. (Russian) **89a:65113**
Swartz, Blair Conditioning collocation. **89b:65181**
Terteryan, A. A. *see* **Gudovich, N. N., 89f:65074**
Thandapani, E. (*with* Balachandran, Krishnan; Balasubramanian, G.) Series solutions of some nonlinear differential equations. **89k:65093**
Thomas, Ruth Margaret Efficient fourth order P-stable formulae. **89f:65078**
— (*with* Gladwell, I.) Variable-order variable-step algorithms for second-order systems. I. The methods. **89b:65182a**
— (*with* Evans, S. J.) A single-step algorithm for oscillatory problems. (Not in MR)
— *see also* **Gladwell, I., 89b:65182b**
Toparkus, Heinz Zur lokalen Darstellung implizit gegebener Abbildungen durch Lie-Reihen. [On the local representation of implicitly defined mappings by Lie series] **89a:65114**
Tsitouras, Ch. *see* **Papageorgiou, G. S.; et al., 89k:65090**
Twizell, E. H. A family of numerical methods for the solution of high-order general initial value problems. **89b:65183**
Vasilenko, Ya. F. Application of the approximation-iterative method to the solution of ordinary differential equations that are not solved with respect to the derivative. (Russian) **89j:65055**
van Veldhuizen, M. A new algorithm for the numerical approximation of an invariant curve. **89f:65079**
Vogt, Werner Numerische Verfahren für Anfangswertaufgaben, deren Lösungen Singularitäten besitzen. [Numerical methods for initial value problems with singularities in the solution] **89a:65115**
Voss, David (*with* Serbin, S. M.) Two-step hybrid methods for periodic initial value problems. **89g:65093**
— A fifth-order exponentially fitted formula. **89d:65069**
Wang, Neng Chao *see* **He, Yuan Ping, 89i:65070**
Wanner, G. Study of Rosenbrock methods for stiff differential equations. **89h:65118**
Weiner, R. (*with* Strehmel, K.) A type insensitive code for delay differential equations basing on adaptive and explicit Runge-Kutta interpolation methods. (German summary) **89g:65094**
— *see also* **Bruder, Jürgen; et al., 89d:65067**
Wiebigke, Volkmar *see* **Bauch, Hartmut, 89g:65082**
Xiang, Jia Xiang (*with* Kuang, Jiao Xun) A class of DBDF methods with the derivative modifying term. **89i:65073**
— *see also* **Kuang, Jiao Xun, 89g:65085**
Yang, Zhiwei Runge-Kutta-Verfahren vierter Ordnung mit dreimaliger Funktionsberechnung. [Runge-Kutta methods of fourth order with threefold computation of functions]

89m:65070
Yudenko, G. P. *see* **Kalaïda, A. F.**, (Not in MR)
Yuh, J. (*with* Holley, W. E.) On the development of an algorithm for solving stiff nonlinear dynamic equations based on the Broyden's updating method. **89d:65070**
Zennaro, Marino Natural Runge-Kutta and projection methods. **89h:65119**
— *see also* **Bellen, Alfredo, 89e:65067**
Zhang, Ji Yuan Optimal coefficients in four-step linear methods. (Chinese. English summary) **89d:65071**
Zhang, Wen *see* **Shampine, L. F., 89g:65092**
Zhao, Shuang Suo Multicorrection CDS schemes for solving initial value problems of a system of stiff ordinary differential equations. (Chinese. English summary) **89g:65095**
Zin′ko, P. N. Some modifications of numerical methods for solving the Cauchy problem. (Russian) (Not in MR)
Zugck, J. *see* **Deuflhard, P.; et al., 89e:65069**

Items with secondary classifications in 65L05

Adams, Ernst Wilhelm *see* **Cordes, D., 89c:34003**
Balázs, M. (*with* Goldner, Gavrilă) Monotone enclosure for Cauchy problem. **89e:47093**
Bazarov, M. V. *see* **Shokin, Yu. I.; et al., 89g:65061**
Berg, Lothar On nonlinear systems of ordinary differential equations. (*see* **89i:00025**)
Bespalova, S. A. (*with* Klokov, Yu. A.) Solution of the Cauchy problem for a system of ordinary differential equations using Chebyshev polynomials. (Russian) **89e:34002**
Beyn, Wolf-Jürgen (*with* Lorenz, Jens) Center manifolds of dynamical systems under discretization. **89a:58055**
Brankin, R. W. *see* **Gladwell, I.; et al.**, (Not in MR)
Brunner, H. The numerical solution of initial value problems for integro-differential equations. **89j:65088**
Chen, Gui Qiang *see* **Ding, Xia Xi; et al., 89f:76006**
Cordes, D. (*with* Adams, Ernst Wilhelm) Test for uniform boundedness for dynamic problems admitting parameter and combination resonance. **89c:34003**
Dekker, K. (*with* Verwer, Jan G.) ★ Устойчивость методов Рунге-Кутты для жестких нелинейных дифференциальных уравнений. (Russian) [Stability of Runge-Kutta methods for stiff nonlinear differential equations] **89c:65001**
Ding, Xia Xi (*with* Chen, Gui Qiang; Luo, Pei Zhu) Convergence of the Lax-Friedrichs scheme for isentropic gas dynamics. I, II. **89f:76006**
(Filippov, S. S.) *see* **Dekker, K., 89c:65001**
Flashner, H. *see* **Guttalu, R. S., 89h:58101**
Gambill, Thomas N. (*with* Skeel, Robert D.) Logarithmic reduction of the wrapping effect with application to ordinary differential equations. **89a:65075**
Gladwell, I. (*with* Shampine, L. F.; Brankin, R. W.) Locating special events when solving ODEs. (Not in MR)
Goldner, Gavrilă *see* **Balázs, M., 89e:47093**
Gordeziani, D. G. (*with* Korshiya, T. K.; Lobzhanidze, G. B.) Averaged schemes of summary approximation for nonlinear parabolic equations. (Russian. English and Georgian summaries) **89f:65068**
Guttalu, R. S. (*with* Flashner, H.) A numerical method for computing domains of attraction for dynamical systems. **89h:58101**
Kerckhoffs, E. J. H. Multiprocessor algorithms for ODEs. **89j:65092**
Klokov, Yu. A. *see* **Bespalova, S. A., 89e:34002**
Kolev, L. V. A quasi-Newton algorithm for following solution curves. **89a:65087**
Korshiya, T. K. *see* **Gordeziani, D. G.; et al., 89f:65068**
Kraaijevanger, J. F. B. M. (*with* Lenferink, H. W. J.; Spijker, M. N.) Stepsize restrictions for stability in the numerical solution of ordinary and partial differential equations. **89a:65128**
(Kul′chitskaya, I. A.) *see* **Dekker, K., 89c:65001**
Lenferink, H. W. J. *see* **Kraaijevanger, J. F. B. M.; et al., 89a:65128**
Li, Ji Yue *see* **Ling, Fu Hua, 89k:65097**
Ling, Fu Hua (*with* Li, Ji Yue) Shooting method in singular perturbation problem of ordinary differential equations with boundary layers. **89k:65097**
Liu, Fa Wang A class of Adams implicit methods with stable parameter and a new algorithm. (Chinese. English summary) **89e:65083**
Lobzhanidze, G. B. *see* **Gordeziani, D. G.; et al., 89f:65068**
Lorenz, Jens *see* **Beyn, Wolf-Jürgen, 89a:58055**
Lubich, C. Convolution quadrature and discretized operational calculus. I. **89g:65018**
Luo, Pei Zhu *see* **Ding, Xia Xi; et al., 89f:76006**
Miao, Shu Mei Asymptotic expansions of solutions of initial value problems for singularly perturbed differential-difference equations. (Chinese. English summary) **89e:34130**
Moulden, T. H. (*with* Scott, M. A.) Walsh spectral analysis for ordinary differential equations. I. Initial value problems. **89e:34006**
Novikov, Vyacheslav Aleksandrovich *see* **Shokin, Yu. I.; et al., 89g:65061**
Rach, R. On continuous approximate solutions of nonlinear differential equations. **89b:34031**
(Samarskiĭ, A. A.) *see* **Dekker, K., 89c:65001**
Scott, M. A. *see* **Moulden, T. H., 89e:34006**
Shampine, L. F. *see* **Gladwell, I.; et al.**, (Not in MR)
Shao, Xiu Min A numerical method for the identification of linear compartmental systems. **89m:92030**
Shi, Le Yuan A continuous minimization method for solving nonlinear equations. (Chinese. English summary) **89h:65084**
Shokin, Yu. I. (*with* Novikov, Vyacheslav Aleksandrovich; Bazarov, M. V.) On the construction and package realization of interval methods for solving ordinary differential equations. **89g:65061**
Skeel, Robert D. *see* **Gambill, Thomas N., 89a:65075**
Spijker, M. N. Monotonicity and contractivity phenomena in the numerical solution of stiff differential equations. **89g:65107**
— *see also* **Kraaijevanger, J. F. B. M.; et al., 89a:65128**
Taubert, Klaus Accretive operators with applications to numerical integration of ordinary differential equations. **89m:47045**
Verwer, Jan G. *see* **Dekker, K., 89c:65001**
Vinogradov, Yu. I. Computational methods and the construction of algorithms for the solution of boundary value problems of structural mechanics. **89g:73039**
Weissinger, Johannes An enclosure method for differential equations. **89a:65123**
(Zakharov, A. Yu.) *see* **Dekker, K., 89c:65001**

65L07 Numerical investigation of stability of solutions

Bales, L. A. (*with* Karakashian, Ohannes A.; Serbin, S. M.) On the A_0-acceptability of rational approximations to the exponential function with only real poles. **89f:65080**
Bishop, Steve R. (*with* Virgin, Lawrence N.; Leung, Dennis L. M.) On the computation of domains of attraction during the dynamic modelling of oscillating systems. **89h:65120**
Drozdova, O. M. *see* **Gulin, A. V.; et al., 89h:65121**
Gulin, A. V. (*with* Drozdova, O. M.; Kartyshov, S. V.; Koshelev, I. M.) Numerical investigation of the stability of higher-order differential-algebraic systems with delay. (Russian) **89h:65121**
Karakashian, Ohannes A. *see* **Bales, L. A.; et al., 89f:65080**
Kartyshov, S. V. *see* **Gulin, A. V.; et al., 89h:65121**
Koshelev, I. M. *see* **Gulin, A. V.; et al., 89h:65121**
Leiber, T. (*with* Risken, H.) Stability of parametrically excited dissipative systems. **89c:65082**
Leung, Dennis L. M. *see* **Bishop, Steve R.; et al., 89h:65120**
Mickens, R. E. Runge-Kutta schemes and numerical instabilities: the logistic equation. **89h:65122**
Risken, H. *see* **Leiber, T., 89c:65082**
Serbin, S. M. *see* **Bales, L. A.; et al., 89f:65080**
Virgin, Lawrence N. *see* **Bishop, Steve R.; et al., 89h:65120**

Items with secondary classifications in 65L07

Goldhirsch, I. (*with* Sulem, P.-L.; Orszag, Steven A.) Stability and Lyapunov stability of dynamical systems: a differential approach and a numerical method. **89f:34068**
Gray, William G. *see* **Kinnmark, Ingemar P. E., 89b:65175**
Kinnmark, Ingemar P. E. (*with* Gray, William G.) Fourth-order accurate one-step integration methods with large imaginary stability limits. **89b:65175**
Mattheij, R. M. M. Analytical and numerical aspects of BVPs for ODEs. **89b:65193**
Orszag, Steven A. *see* **Goldhirsch, I.; et al., 89f:34068**
Sulem, P.-L. *see* **Goldhirsch, I.; et al., 89f:34068**
Trubuil, A. Hopf bifurcation point detection. Application of a continuation method to optimization of multistate systems. **89i:58108**
Wanner, G. Study of Rosenbrock methods for stiff differential equations. **89h:65118**
Zhu, Ben Ren A singular perturbation problem of third order and its applications to numerical analysis. (Chinese. English summary) **89j:34084**

65L10 Boundary value problems

Agarwal, Ravi Prakash Monotone convergence of iterative methods for (n, p) and (p, n) boundary value problems. **89g:65096**
— *see also* **Usmani, Riaz A., 89j:65058**
Aldeen, I. K. (*with* Khalid, L. H.) Comparison of numerical methods in the solution of eigenvalue problems. (Arabic summary) **89m:65071**
Azarov, A. I. (*with* Monastyrnyĭ, P. I.; Shibut, A. S.) Invariant embedding for singularly perturbed boundary value problems with a parameter. (Russian. English summary) **89h:65123**
Baĭnov, D. D. *see* **Khristova, S. G., 89a:65119**
Baker-Jarvis, James Solution to boundary value problems using the method of maximum entropy. **89k:65094**
Balla, Katalin (*with* Vicsek, M.) On the reduction of Holt's problem to a finite interval. **89g:65097a**
— (*with* Vicsek, M.) Erratum: "On the reduction of Holt's problem to a finite interval". **89g:65097b**
Bamigbola, O. M. (*with* Ibiejugba, M. A.; Onumanyi, P.) Higher order Chebyshev basis functions for two-point boundary value problems. **89h:65124**
Boglaev, I. P. Numerical integration of some singularly perturbed systems of ordinary differential equations. **89b:65184**
Böhmer, Klaus (*with* Locker, John) Asymptotic expansions for the discretization error of least squares solutions of linear boundary value problems. **89f:65081**
Boĭchuk, A. A. Iterative methods for constructing solutions of two-point boundary value problems for nonlinear systems. (Russian. English summary) **89h:65125**
Brădeanu, Doina Some considerations on the application of the Galerkin method to unidimensional diffusion-convection problems. **89i:65074**
Bradler, I. (*with* Fel′dman, I. A.) A difference method for solving some elliptic boundary value problems. (Russian. English summary) **89g:65098**
Cash, J. R. An adaptive deferred correction method for nonlinear two-point boundary value problems. **89h:65126**
— On the numerical integration of nonlinear two-point boundary value problems using iterated deferred corrections. II. The development and analysis of highly stable deferred correction formulae. **89g:65099**
Chawla, M. M. (*with* Subramanian, R.; Sathi, H. L.) A fourth order method for a singular two-point boundary value problem. **89b:65185**
— (*with* Subramanian, R.; Sathi, H. L.) A fourth-order spline method for singular two-point boundary value problems. **89j:65056**
Christara, C. C. *see* **Houstis, E. N.; et al., 89g:65103**
Chung, S. K. Numerical solutions of nonlinear boundary value problems. **89h:65127**
Dalík, Josef An a priori error estimate for the solution of a boundary value problem for ordinary differential equations by the Petrov-Galerkin method. (Czech) **89m:65072**
Demchenko, V. F. Difference schemes on generalized solutions of a two-point boundary value problem for an ordinary differential equation. (Russian) **89f:65082**
Dmitriev, M. G. (*with* Klishevich, A. M.) Iterative methods for solving singularly perturbed boundary value problems of conditionally stable type. (Russian) **89h:65128**
Dormand, J. R. (*with* Prince, P. J.) Runge-Kutta-Nystrom triples. **89c:65083**

El-Namoury, A. R. M. On applying the method of iteration for solving a boundary value problem. (Arabic summary) **89d:65072**

England, Roland (*with* Mattheij, R. M. M.) Boundary value problems and dichotomic stability. **89k:65095**

Farrell, Paul A. Criteria for uniform convergence. **89m:65073**

— Sufficient conditions for the uniform convergence of a difference scheme for a singularly perturbed turning point problem. **89g:65100**

Fel'dman, I. A. *see* **Bradler, I., 89g:65098**

Funaro, D. Domain decomposition methods for pseudospectral approximations. I. Second order equations in one dimension. **89b:65186**

Gartland, Eugene C., Jr. Uniform high-order difference schemes for a singularly perturbed two-point boundary value problem. **89a:65116**

— An analysis of a uniformly convergent finite difference/finite element scheme for a model singular-perturbation problem. **89b:65187**

— Graded-mesh difference schemes for singularly perturbed two-point boundary value problems. **89d:65073**

Gordeziani, D. G. Finite-difference schemes for solving nonlocal boundary value problems. (Russian. English and Georgian summaries) **89d:65074**

Gräff, Martin L. (*with* Weinmüller, Ewa B.) Testing of error estimation procedures for boundary value problems with a singularity of the first kind. **89g:65101**

Griewank, Andreas On the iterative solution of differential and integral equations using secant updating techniques. **89h:65129**

Grossmann, Ch. (*with* Roos, H.-G.) Feedback grid generation via monotone discretization for two-point boundary-value problems. **89h:65130**

— Monotone discretization of two-point boundary value problems and related numerical methods. **89g:65102**

— (*with* Roos, H.-G.) Zur Herleitung der Konvergenzordnung bei C^1-Spline-Kollokationsmethoden für eine monotone Randwertaufgabe. [On deriving the rate of convergence in C^1-spline collocation methods for a monotone boundary value problem] **89b:65188**

Han, Guo Qiang Asymptotic expressions and extrapolations of tension spline collocation for second-order ordinary differential equations. (Chinese. English summary) **89i:65075**

Hantzschmann, K. (*with* Thinh, N. X.) Fehleranalyse und rechnergestützte Fehlerabschätzung für eine Klasse von Randwertaufgaben bei gewöhnlichen Differentialgleichungen. [Error analysis and computer-aided error estimates for a class of boundary value problems of ordinary differential equations] **89a:65117**

Hassan Salem, Zeinab *see* **Jain, Mahendra Kumar, 89a:65118**

Herceg, Dragoslav (*with* Petrović, Nenad) On numerical solution of a singularly perturbed boundary value problem. II. (Serbo-Croatian summary) **89c:65084**

— (*with* Petrović, Nenad) Numerische Modelle höherer Ordnung für gestörte Randwertaufgaben. [Numerical models of higher order for perturbed boundary value problems] (Not in MR)

Hermann, Martin Efficient shooting algorithms for solving nonlinear TPBVPs with separated endconditions. **89m:65074**

— *see also* **Wallisch, Walter, 89e:65081**

Horiuchi, Kazuo *see* **Yamamura, Kiyotaka; et al., 89j:65059**

Houstis, E. N. (*with* Christara, C. C.; Rice, John Rischard) Quadratic-spline collocation methods for two-point boundary value problems. **89g:65103**

— *see also* **Irodotou-Ellina, M., 89e:65078**

Ibiejugba, M. A. *see* **Bamigbola, O. M.; et al., 89h:65124**

Ignat'ev, V. N. (*with* Zadorin, A. I.) ★ О некоторых методах численного решения нелинейной сингулярно возмущенной краевой задачи. (Russian) [Some methods for the numerical solution of a nonlinear singularly perturbed boundary value problem] **89d:65075**

— *see also* **Zadorin, A. I., 89f:65089**

Irodotou-Ellina, M. (*with* Houstis, E. N.) An $O(h^6)$ quintic spline collocation method for fourth order two-point boundary value problems. **89e:65078**

Iyengar, Satteluri R. K. (*with* Pillai, A. C. Radhakrishna) Difference schemes of polynomial and exponential orders. (Not in MR)

Jain, Mahendra Kumar (*with* Hassan Salem, Zeinab) Numerical solution of singular boundary value problems. **89a:65118**

Jiang, Ben Xian *see* **Lin, Peng Cheng, 89c:65087**

Kadalbajoo, Mohan K. (*with* Reddy, Y. N.) A boundary value method for a class of nonlinear singular perturbation problems. **89d:65076**

— (*with* Reddy, Y. N.) An approximate method for solving a class of singular perturbation problems. **89e:65079**

Kadner, H. Genähert-analytische Berechnung Greenscher Funktionen. [Approximate analytical computation of Green's functions] **89b:65189**

Kaiser, Dieter Zur Berechnung von Zweipunktrandwertproblemen mit partiell separierten Randbedingungen mit der Methode der komplementären Funktionen bzw. dem Stabilized March Verfahren. [On the computation of two-point boundary value problems with partially separated boundary conditions by the method of complementary functions and the stabilized march method] **89b:65190**

Kalaba, Robert E. (*with* Wexler, Anthony S.) New methods for boundary value problems. **89k:65096**

Kamowitz, David Multigrid applied to singular perturbation problems. **89c:65085**

Khalid, L. H. *see* **Aldeen, I. K., 89m:65071**

Khristova, S. G. (*with* Baĭnov, D. D.) Numeric-analytic method for finding the solution of a boundary-value problem for a system of differential equations with impulses. **89a:65119**

Kim, Ryon Sun Parallel algorithm of numerical solution for a boundary value problem of a system of linear ordinary differential equations of the first order with constant coefficients. (Korean. English summary) (Not in MR)

Klishevich, A. M. *see* **Dmitriev, M. G., 89h:65128**

Kuklina, G. Ya. ★ О равномерной сходимости схемы Шарфеттера для одномерного уравнения переноса носителей заряда в полупроводниковых приборах. (Russian) [Uniform convergence of a Scharfetter scheme for a one-dimensional equation of the transport of charge carriers in semiconductors] **89h:65131**

Kuleshova, I. F. (*with* Monastyrnyĭ, P. I.) Numerical solution of problems with a boundary layer. (Russian) (Not in MR)

Larsen, Edward W. (*with* Morel, Jim Emanuel; Miller, Warren F., Jr.) Asymptotic solutions of numerical transport problems in optically thick, diffusive regimes. **89b:65191**

Leipholz, H. H. E. On Galerkin's method interpreted as a generalized integral transformation. **89e:65080**

Leyk, Zbigniew C^0-collocation-like methods at Radau points for two-point boundary value problems. **89c:65086**

Li, Ji Yue *see* **Ling, Fu Hua, 89k:65097**

Li, Tien-Yien Finding all isolated zeros of polynomial systems. (Chinese. English summary) **89j:65057**

Lin, Peng Cheng (*with* Jiang, Ben Xian) A singular perturbation problem for periodic boundary differential equation. **89c:65087**

— (*with* Sun, Guang Fu) A class of incompletely exponentially fitted difference schemes for a singular perturbation problem. **89i:65076**

Ling, Fu Hua (*with* Li, Ji Yue) Shooting method in singular perturbation problem of ordinary differential equations with boundary layers. **89k:65097**

Liseĭkin, V. D. Numerical solution of an equation with an interior boundary layer. (Russian) **89a:65120**

— (*with* Petrenko, V. E.) ★ Метод адаптивно инвариантной сетки для численного решения квазилинейного сингулярно возмущенного уравнения с точкой возврата. (Russian) [An adaptively invariant grid method for the numerical solution of a quasilinear singularly perturbed equation with a turning point] **89c:65088**

— (*with* Petrenko, V. E.) Numerical solution of nonlinear singularly perturbed problems. **89d:65077**

Locker, John *see* **Böhmer, Klaus, 89f:65081**

van Loon, P. M. (*with* Mattheij, R. M. M.) Stable continuous orthonormalisation techniques for linear boundary value problems. **89d:65078**

Lü, Tao Correction and splitting extrapolation methods for the collocation solutions of two-point boundary value problems. (Chinese. English summary) **89b:65192**

Mal'tsev, V. A. Numerical solution of problems with a small parameter by the Lagrange-Chebyshev polynomial method. (Russian) (*see* **89h:76002**)

Mattheij, R. M. M. Analytical and numerical aspects of BVPs for ODEs. **89b:65193**

— *see also* **van Loon, P. M., 89d:65078** *and* **England, Roland, 89k:65095**

Meek, D. S. *see* **Sakai, Manabu, 89g:65104**

Meyer, P. W. A fixed point multiple shooting method. (German summary) **89f:65083**

Miller, Warren F., Jr. *see* **Larsen, Edward W.; et al., 89b:65191**

(Mitropol'skiĭ, Yu. A.) *see* **Samoĭlenko, A. M., 89a:65121**

Monastyrnyĭ, P. I. *see* **Azarov, A. I.; et al., 89h:65123** *and* **Kuleshova, I. F.,** (Not in MR)

Morel, Jim Emanuel *see* **Larsen, Edward W.; et al., 89b:65191**

Nassif, N. R. Eigenvalue finite difference approximations for regular and singular Sturm-Liouville problems. **89f:65084**

Niepage, H.-D. Inverse stability and convergence of difference approximations for boundary value problems for differential inclusions. **89d:65079**

Novikov, E. A. (*with* Yumatova, L. A.) Some methods for solving ordinary differential equations that are not solved with respect to the derivative. **89b:65194**

Oishi, Shin'ichi *see* **Yamamura, Kiyotaka; et al., 89j:65059**

Oliveira, F. Aleixo Relations among numerical methods for ordinary differential equations with two-point boundary conditions. (Portuguese. English summary) **89i:65077**

Onumanyi, P. *see* **Bamigbola, O. M.; et al., 89h:65124**

Petrenko, V. E. *see* **Liseĭkin, V. D., 89c:65088** *and* **89d:65077**

Petrović, Nenad *see* **Herceg, Dragoslav, 89c:65084** *and* (Not in MR)

Pillai, A. C. Radhakrishna *see* **Iyengar, Satteluri R. K.,** (Not in MR)

Prince, P. J. *see* **Dormand, J. R., 89c:65083**

Rao, Chuan Xia An analytical-numerical method for a typical bifurcation problem. **89d:65080**

Reddy, Y. N. *see* **Kadalbajoo, Mohan K., 89d:65076** *and* **89e:65079**

Regińska, Teresa The superconvergence effect in the finite element method for two-point boundary value problems. (Polish. English summary) **89f:65085**

— Error estimates for external approximation of ordinary differential equations and the superconvergence property. (Russian and Czech summaries) **89f:65086**

Rice, John Rischard *see* **Houstis, E. N.; et al., 89g:65103**

Ronto, N. I. *see* **Samoĭlenko, A. M., 89a:65121**

Roos, H.-G. *see* **Grossmann, Ch., 89b:65188** *and* **89h:65130**

Sakai, Manabu (*with* Meek, D. S.) A collocation method for a singular boundary value problem. **89g:65104**

Samoĭlenko, A. M. (*with* Ronto, N. I.) ★ Численно-аналитические методы исследования решений краевых задач. (Russian) [Numerical-analytic methods for investigating the solutions of boundary value problems] **89a:65121**

Samokish, B. A. Construction of the residual in the tabular solution of an ordinary differential equation. (Russian) (Not in MR)

Sathi, H. L. *see* **Chawla, M. M.; et al., 89b:65185** *and* **89j:65056**

Schaper, Michael Extrapolationsverfahren zur Genauigkeitsverbesserung von Finite-Differenzen-Lösungen für eine singulär gestörte Zweipunkt-Randwertaufgabe. [Extrapolation methods for improving the accuracy of finite difference solutions for a singularly perturbed two-point boundary value problem] **89i:65078**

Scheiber, Ernest Numerical solution of a nonlinear two-point boundary value problem by optimal control methods. (Romanian summary) (Not in MR)

Scott, Melvin R. *see* **Watson, Layne T., 89a:65122**

Shibut, A. S. *see* **Azarov, A. I.; et al., 89h:65123**

Sivasundaram, S. The method of upper and lower solutions and the interval method for second order differential equations. **89m:65075**

Smiley, Michael W. A numerical study of spontaneous bifurcation. **89f:65087**

Stanzhitskiĭ, A. N. (*with* Sukhomlin, A. A.) A numerical-analytic method for systems with random perturbation. (Russian) **89i:65079**

Stojanović, Mirjana A first order accuracy scheme on a nonuniform mesh. **89h:65132**

— *see also* **Surla, K., 89b:65195**

Subramanian, R. *see* **Chawla, M. M.; et al., 89b:65185** *and* **89j:65056**

Sukhomlin, A. A. *see* **Stanzhitskiĭ, A. N., 89i:65079**

Sun, Guang Fu *see* **Lin, Peng Cheng, 89i:65076**

Surla, K. The singularly perturbed spline collocation method for boundary value problems with mixed boundary conditions. (Serbo-Croatian summary) **89f:65088**

— Uniformly convergent spline collocation method for a differential equation with a small parameter. **89k:65098**

— (*with* Stojanović, Mirjana) Singularly perturbed spline difference schemes on a nonequidistant grid. (German and Russian summaries) **89b:65195**

— A uniformly convergent spline difference scheme for a singularly perturbed selfadjoint problem on nonuniform mesh. **89k:65099**

— *see also* **Uzelac, Z., 89m:65076** *and* **89m:65077**

Temnenko, V. A. A numerical-analytic method for solving some singular problems of the theory of oscillations. (Russian) **89i:65080**

Thinh, N. X. *see* **Hantzschmann, K., 89a:65117**

Tirmizi, S. I. A. A fourth-order accurate method for fourth-order two-point nonlinear boundary value problems. **89k:65100**

— *see also* **Twizell, E. H., 89b:65196**

Twizell, E. H. (*with* Tirmizi, S. I. A.) Multiderivative methods for nonlinear beam problems. **89b:65196**

Usmani, Riaz A. (*with* Agarwal, Ravi Prakash) On the numerical solution of two-point discrete boundary value problems. **89j:65058**

Uzelac, Z. (*with* Surla, K.) Exponentially fitted quadratic spline difference schemes. **89m:65076**

— (*with* Surla, K.) A spline difference scheme for a singular perturbation problem. **89m:65077**

Vicsek, M. Efficient error bounds for reducing an infinite interval in a singular boundary value problem. (Not in MR)

— *see also* **Balla, Katalin, 89g:65097a** *and* **89g:65097b**

Wallisch, Walter (*with* Hermann, Martin) ★ Numerische Behandlung von Fortsetzungs- und Bifurkationsproblemen bei Randwertaufgaben. (German) [Numerical treatment of continuation and bifurcation problems in boundary value problems] **89e:65081**

Watson, Layne T. (*with* Scott, Melvin R.) Solving spline-collocation approximations to nonlinear two-point boundary-value problems by a homotopy method. **89a:65122**

Weinmüller, Ewa B. *see* **Gräff, Martin L., 89g:65101**

Weissinger, Johannes An enclosure method for differential equations. **89a:65123**

Wexler, Anthony S. *see* **Kalaba, Robert E., 89k:65096**

Yamamura, Kiyotaka (*with* Oishi, Shin'ichi; Horiuchi, Kazuo) Simplicial homotopy method for the solution of nonlinear two-point boundary value problems. **89j:65059**

Yumatova, L. A. *see* **Novikov, E. A., 89b:65194**

Zadorin, A. I. (*with* Ignat′ev, V. N.) Numerical solution of the singularly perturbed third boundary value problem for a second-order ordinary equation. (Russian) **89f:65089**

— *see also* **Ignat′ev, V. N., 89d:65075**

Zhu, Ben Ren Discretized Gel′fand-Levitan equations. (Chinese. English summary) **89i:65081**

Items with secondary classifications in 65L10

Agarwal, Ravi Prakash Boundary value problems for second order differential equations of Sobolev type. **89d:34031**

Balla, Katalin Error estimation for a class of singular, matrix differential equations of Riccati type. **89b:65165**

Bryson, Arthur E., Jr. *see* **Lee, Allan Yeow-Nam, 89k:49013**

Bublik, B. N. (*with* Lyashenko, I. N.; Lyashenko, B. N.) Two-sided approximation of a solution of a problem of two centers in quantum mechanics. (Russian. English summary) **89k:81021**

(Buendía, E.) *see* **Ixaru, L. Gr., 89b:81011**

Cai, Sui Lin *see* **Zheng, Jian Min, 89a:34028**

Castro, Eduardo A. *see* **Estrín, Darío A.; et al., 89i:81017**

Chan, Chiu Yeung (*with* Hon, Y. C.) Computational methods for generalized Thomas-Fermi models of neutral atoms. **89j:81274**

Dankanich, V. A. *see* **Martynyuk, D. I., 89b:34160**

Davie, K. (*with* Wallace, Robert) Solution of bound state single variable eigenproblems by the extended renormalized Numerov method. **89j:65007**

Dzhumabaev, D. S. *see* **Zhautykov, O. A., 89j:49026**

Emel′yanov, K. V. Difference schemes for singularly perturbed boundary value problems. **89c:65112**

Estrín, Darío A. (*with* Fernández, Francisco M.; Castro, Eduardo A.) Generalized Hill determinant method. **89i:81017**

Farrell, Paul A. (*with* Gartland, Eugene C., Jr.) A uniform convergence result for a turning point problem. (*see* **89j:65008**)

Fernández, Francisco M. *see* **Estrín, Darío A.; et al., 89i:81017**

Filanovsky, I. M. *see* **Qiu, Shui Sheng, 89c:70049**

Gal′, M. M. *see* **Kovach, Yu. I., 89b:34157**

Gartland, Eugene C., Jr. Strong stability of compact discrete boundary value problems via exact discretizations. **89a:65127**

— *see also* **Farrell, Paul A.**, (**89j:65008**)

Goldmann, Mark Vectorisation of the multiple shooting method for the nonlinear boundary value problem in ordinary differential equations. **89b:65330**

Gregory, John (*with* Zeman, Marvin) Spline matrices and their applications to some higher order methods for boundary value problems. **89c:65016**

(Guardiola, R.) *see* **Ixaru, L. Gr., 89b:81011**

Hon, Y. C. *see* **Chan, Chiu Yeung, 89j:81274**

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Kang, Li Shan *see* **Xiao, You En, 89k:65129**

Karandzhulov, Lyudmil A method of differentiation with respect to a parameter for solving nonlinear two-point boundary value problems. Program realization. (Bulgarian. English and Russian summaries) **89d:34036**

Khavanin, Mohammad (*with* Lakshmikantham, V.) The method of mixed monotony and second order boundary value problems. **89f:34027**

Kobeissi, Hafez (*with* Kobeissi, Majida) A new variable step method for the numerical integration of the one-dimensional Schrödinger equation. **89j:81030**

Kobeissi, Majida *see* **Kobeissi, Hafez, 89j:81030**

Kovach, Yu. I. (*with* Gal′, M. M.) ★ О двустороннем аналитическом методе академика С. А. Чаплыгина для дифференциальных уравнений. (Russian) [Academician S. A. Chaplygin's two-sided analytic method for differential equations] **89b:34157**

Lakshmikantham, V. *see* **Khavanin, Mohammad, 89f:34027**

Lavery, John E. Nonoscillatory solution of the steady-state inviscid Burgers' equation by mathematical programming. **89j:76020**

Lee, Allan Yeow-Nam (*with* Bryson, Arthur E., Jr.) Neighbouring extremals of dynamic optimization problems with parameter variations. **89k:49013**

Lepin, A. Ya. *see* **Virzhbitskiĭ, Ya. V.; et al., 89e:34039**

Lepin, L. A. *see* **Virzhbitskiĭ, Ya. V.; et al., 89e:34039**

Liseĭkin, V. D. (*with* Petrenko, V. E.) ★ О численном решении нелинейных сингулярно-возмущенных задач. (Russian) [Numerical solution of nonlinear singularly perturbed problems] **89g:65086**

Lyashenko, B. N. *see* **Bublik, B. N.; et al., 89k:81021**

Lyashenko, I. N. *see* **Bublik, B. N.; et al., 89k:81021**

Maksimov, V. P. (*with* Rumyantsev, A. N.) Investigation of the solvability of boundary value problems using the techniques of analytic computations on a computer. (Russian) (*see* **89c:00009**)

Marciniak, Andrzej A variable order method for solving the planetary type N-body problem. **89c:70017**

Martynyuk, D. I. (*with* Dankanich, V. A.) Periodic solutions of nonlinear autonomous systems with delay. (Russian) **89b:34160**

Nesterenko, L. I. Two-sided approximation to the solution of a boundary value problem for a system of ordinary differential equations. (Russian) **89j:34027**

Petrenko, V. E. *see* **Liseĭkin, V. D., 89g:65086**

Puzynin, I. V. *see* **Zhanlav, T.; et al., 89k:81186**

Qin, Zeng Fu On the numerical solution of steady Burgers' equation. (*see* **89j:65008**)

Qiu, Shui Sheng (*with* Filanovsky, I. M.) On verification of stability of periodic oscillations in nonlinear systems. **89c:70049**

Rakit·skiĭ, A. V. *see* **Zhanlav, T.; et al., 89k:81186**

Reddien, George W. Determining equations for bifurcation problems. **89f:58035**

Roberts, Sanford M. Further examples of the boundary value technique in singular perturbation problems. **89h:34054**

Rumyantsev, A. N. *see* **Maksimov, V. P.**, (**89c:00009**)

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65L15 Eigenvalue problems

Andrew, Alan L. Correction of finite element eigenvalues for problems with natural or periodic boundary conditions. **89b:65197**

— Correction of finite difference eigenvalues of periodic Sturm-Liouville problems. **89k:65101**

Banerjee, Uday Approximation of eigenvalues of differential equations with nonsmooth coefficients. (French summary) **89c:65089**

Cao, Ce Wen *see* **Cao, Ying Luo, 89k:65102**

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Jarratt, Mary *see* **Eggert, Norman; et al., 89c:65090**

Kuiper, Hendrik J. On spurious numerical solutions for nonlinear eigenvalue problems. **89k:65103**

Liu, Kam Moon (*with* Ortiz, E. L.) Tau method approximation of differential eigenvalue problems where the spectral parameter enters nonlinearly. **89a:65124**

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Vicsek, M. Numerical experiment on a singular boundary value problem. **89m:65078**

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Aldeen, I. K. (*with* Khalid, L. H.) Comparison of numerical methods in the solution of eigenvalue problems. (Arabic summary) **89m:65071**

Castro, Eduardo A. *see* **Fernández, Francisco M., 89b:34057**

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65L20 Stability of numerical methods

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Butcher, J. C. The equivalence of algebraic stability and AN-stability. **89a:65126**

Coleman, John P. Characterisation of a class of P-stable methods for differential equations of second order. **89k:65104**

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Jackiewicz, Zdzisław *see* **Bellen, Alfredo; et al., 89h:65134**

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Lenferink, H. W. J. *see* **Kraaijevanger, J. F. B. M.; et al., 89a:65128**

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Pospelov, V. V. A method for the investigation of the stability and approximation of difference schemes. (Russian) **89d:65081**

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— *see also* **Kraaijevanger, J. F. B. M.; et al., 89a:65128**

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Items with secondary classifications in 65L20

Chen, Wu Fan The over implicit difference scheme and its analysis of stability for an improved Prajneshu system. (Chinese. English summary) **89c:92052**

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Kuang, Jiao Xun *see* **Xiang, Jia Xiang, 89i:65073**

Mao, Zu Fan *see* **Sun, Geng, 89a:65112**

Mattheij, R. M. M. *see* **England, Roland, 89k:65095**

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Palacios, M. *see* **Franco, J. M., 89g:65084**

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65L50 Mesh generation and refinement

Altas, I. (*with* Manohar, R.; Stephenson, J. W.) Adaptive mesh generation using quadratures. **89g:65108**

Ivanova, T. S. The use of nets that adapt to the solution in one-dimensional boundary value problems. (Russian) **89c:65091**

Manohar, R. *see* **Altas, I.; et al., 89g:65108**

Mickens, R. E. Properties of finite difference models of nonlinear conservative oscillators. **89h:65135**

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Items with secondary classifications in 65L50

Babuška, I. Information-based numerical practice. **89f:65056**

(McCormick, Stephen F.) *see* **Multigrid methods, 89m:65004**

Items listed otherwise than by author

Multigrid methods ★ Multigrid methods. **89m:65004**

65L60 Finite elements, Rayleigh-Ritz and Galerkin methods, finite methods

Bixler, Nathan E. An improved time integrator for finite element analysis. (Not in MR)

Kucherenko, È. I. Justification of the finite element method for a boundary value problem of a system of nonlinear ordinary differential equations. **89h:65136**

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Adjerid, Slimane (*with* Flaherty, Joseph E.) Second-order finite element approximations and a posteriori error estimation for two-dimensional parabolic systems. **89i:65110**

Andrew, Alan L. Correction of finite element eigenvalues for problems with natural or periodic boundary conditions. **89b:65197**

Banerjee, Uday Approximation of eigenvalues of differential equations with nonsmooth coefficients. (French summary) **89c:65089**

Carey, G. F. *see* **MacKinnon, R. J., 89g:76009**

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(Whiteman, Caroline M.) *see* **Schwarz, H.-R., 89h:65190**

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65L99 None of the above, but in this section

Andrianov, I. V. (*with* Bulanova, N. S.) Application of the method of Padé approximants for estimating the domain of applicability of the small parameter method. (Russian) **89c:65092**

Balla, Katalin An error estimate for the approximate solution of some singular ordinary differential equations. (Russian) **89d:65082**

Brankin, R. W. *see* **Gladwell, I.; et al.**, (Not in MR)

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Danilevich, A. B. (*with* Koshelev, V. N.) A method for introducing a correction to the solution of a system of differential equations in order to improve its accuracy. (Russian) **89k:65106**

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Gao, Jie *see* **Ling, Fu Hua**, (Not in MR)

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Kohda, Atsuhito *see* **Shinohara, Yoshitane; et al., 89f:65090**

Koshelev, V. N. *see* **Danilevich, A. B., 89k:65106**

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Mickens, R. E. Mathematical modeling of differential equations by difference equations. **89c:65093**

Niepage, H.-D. (*with* Wendt, Werner) On the discrete convergence of multistep methods for differential inclusions. **89b:65200**

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Pan, Jing Song *see* **Su, De Fu; et al., 89c:65094**

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Wendt, Werner *see* **Niepage, H.-D., 89b:65200**

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Yi, Lian Xing *see* **Su, De Fu; et al., 89c:65094**

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Items with secondary classifications in 65L99

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Angeles, J. *see* **Zung, E., 89g:93027**

Armbruster, D. *see* **Rand, Richard H., 89a:58083**

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Campbell, L. A. *see* **Bucy, R. S., 89e:93192**

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— *see also* **Ge, Zhong, 89m:70029**

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Khripunov, A. P. *see* **Taras′ev, A. M.; et al., 89h:90280**

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Levy, Bernard C. *see* **Kuo, C.-C. Jay, 89h:65158**

Martín, Pablo *see* **Guerrero, Antonio L., 89j:65016**

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Qin, Meng Zhao *see* **Feng, Kang, 89e:70003**

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Shub, Michael *see* **Pugh, Charles, 89m:58117**

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Ushakov, V. N. *see* **Taras′ev, A. M.; et al., 89h:90280**

Zhang, Ji Zu *see* **Cheng, Pei Ji, 89h:58086**

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65Mxx Partial differential equations, initial value problems

Items with secondary classifications in 65Mxx

Kal′ts, A. L. *see* **Zhubaev, N. Zh.; et al., 89g:73015**

Karymsakov, K. U. *see* **Zhubaev, N. Zh.; et al., 89g:73015**

Kim, V. T. *see* **Zhubaev, N. Zh.; et al., 89g:73015**

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Nurzhanova, Sh. Zh. *see* **Zhubaev, N. Zh.; et al., 89g:73015**

Sarsenov, B. Sh. *see* **Zhubaev, N. Zh.; et al., 89g:73015**

Sibony, Moïse ★ Analyse numérique. III. (French) [Numerical analysis. III] **89k:65002**

Sinyaev, A. Ya. *see* **Zhubaev, N. Zh.; et al., 89g:73015**

Turekulova, A. N. *see* **Zhubaev, N. Zh.; et al., 89g:73015**

Zhubaev, N. Zh. (*with* Kal′ts, A. L.; Karymsakov, K. U.; Kim, V. T.; Kozhabekov, Zh. T.; Nurzhanova, Sh. Zh.; Sarsenov, B. Sh.; Sinyaev, A. Ya.; Turekulova, A. N.) ★ Численные методы исследования двухмерных волн напряжений (в упругих и упругопластических средах). (Russian) [Numerical methods for the study of two-dimensional stress waves (in elastic and elastoplastic media)] **89g:73015**

65M05 Derivation of finite difference approximations

Alekseev, B. V. (*with* Ustyugov, S. A.) Numerical solution of generalized equations of gas dynamics. (Russian) **89g:65110**

Amosov, A. A. (*with* Zlotnik, A. A.) A family of difference schemes for equations of one-dimensional magnetogasdynamics: properties and error estimates “in the large”. **89g:65111**

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Glowinski, R. *see* **Dean, Edward J.; et al., 89c:65096** *and* **Bristeau, M. O.; et al., 89m:65081**

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Han, Zhen *see* **Li, De Yuan, 89m:65082**

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Khaliq, A. Q. M. *see* **Twizell, E. H., 89e:65092**

Khazanov, M. V. A method for the numerical solution of one-dimensional equations of the hydrodynamics of a two-phase gas-liquid mixture. (Russian) **89i:65087**

Kondrat′eva, A. I. *see* **Kozlov, N. I.; et al., 89a:65132**

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Liu, Hai Lou (*with* Ma, Si Liang) Some monotone finite difference schemes with weakly dispersive error. (Chinese. English summary) **89c:65099**

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McDaniel, S. T. *see* **Lee, Ding, 89b:65204**

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O'Riordan, Eugene *see* **Ng-Stynes, Mary Jeanne; et al., 89e:65089**

Osher, Stanley *see* **Shu, Chi-Wang, 89g:65113**

Pan, Zhong Xiong The difference and asymptotic methods for a fourth order equation with a small parameter. **89b:65207**

Périaux, Jacques *see* **Bristeau, M. O.; et al., 89m:65081**

Prosyanoĭ, A. A. *see* **Asmolik, V. A., 89b:65202**

Qin, Meng Zhao A difference scheme for the Hamiltonian equation. **89m:65083**

(Rodin, E. Y.) *see* **Lee, Ding, 89b:65204**

Roos, H.-G. The Rothe method and monotone discretization for parabolic equations. **89e:65091**

Rusetskiĭ, S. V. *see* **Kozlov, N. I.; et al., 89a:65132**

Shashkov, M. Yu. *see* **Solov'ëv, A. V.; et al., 89g:65114**

Shchukina, I. *see* **Vakul'chik, P. A., 89g:65116**

Shil'nikov, E. V. A difference scheme, exact with respect to space, for the one-dimensional heat equation. (Russian) **89c:65101**

Shu, Chi-Wang TVB uniformly high-order schemes for conservation laws. **89b:65208**

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Solov'ëv, A. V. (*with* Solov'ëva, E. V.; Tishkin, V. F.; Favorskiĭ, A. P.; Shashkov, M. Yu.) Difference schemes of the method of "Dirichlet particles", which preserve the one-dimensionality of gas dynamic flows in Cartesian, cylindrical and spherical coordinates. (Russian) **89g:65114**

Solov'ëva, E. V. *see* **Solov'ëv, A. V.; et al., 89g:65114**

Soomer, V. *see* **Arst, H., 89a:65131**

Sorokovikova, O. S. *see* **Gasilov, V. A.; et al., 89f:65093**

Stynes, Martin *see* **Ng-Stynes, Mary Jeanne; et al., 89e:65089**

Tang, Tao On three-point second-order accurate conservative difference schemes. **89g:65115**

Tishkin, V. F. *see* **Vyaznikov, K. V.; et al., 89a:65133** *and* **Solov'ëv, A. V.; et al., 89g:65114**

Tkachenko, S. I. *see* **Gasilov, V. A.; et al., 89f:65093**

Twizell, E. H. (*with* Khaliq, A. Q. M.) Global extrapolation methods for fourth order parabolic partial differential equations. (Arabic summary) **89e:65092**

Ustyugov, S. A. *see* **Alekseev, B. V., 89g:65110**

Vakul'chik, P. A. (*with* Shchukina, I.) Investigation of the convergence of difference schemes for calculating a process of the heat treatment of composite materials by means of infrared radiation. **89g:65116**

Verdi, Claudio *see* **Nochetto, Ricardo H., 89b:65205**

Vyaznikov, K. V. (*with* Tishkin, V. F.; Favorskiĭ, A. P.) Quasimonotone difference schemes for equations of gas dynamics. (Russian) **89a:65133**

Wei, Yong *see* **Liu, Ru Xun, 89e:65088**

Yu, Xin High resolution schemes for hyperbolic conservation laws with nonhomogeneous term. (Chinese. English summary) **89j:65060**

— A class of new schemes for conservation laws. (Chinese. English summary) **89e:65093**

Zeng, Wen Ping A family of absolutely stable difference schemes of high accuracy for solving the dispersive equation $u_t = au_{xxx}$. (Chinese. English summary) **89h:65141**

Zhuk, M. G. A difference-characteristic approach to the solution of two-dimensional dynamical problems. (Russian) **89b:65209**

Zlotnik, A. A. *see* **Amosov, A. A., 89g:65111**

Zotov, V. L. A difference scheme for a set of equations of the atmosphere dynamics. **89b:65210**

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Apanovich, Yu. V. (*with* Lyumkis, E. D.) Difference schemes for Navier-Stokes equations on a grid of Dirichlet cells. (Russian) **89f:76004**

Boĭko, A. Ya. Construction of completely conservative difference schemes of magnetohydrodynamics in mixed Euler-Lagrange variables by means of the projection method. **89j:76007**

Brenier, Yann (*with* Osher, Stanley) The discrete one-sided Lipschitz condition for convex scalar conservation laws. **89a:65134**

Cao, Wei Ming *see* **Guo, Ben Yu, 89c:76039**

Chen, Bing Mu *see* **Zhu, You Lan; et al., 89i:76019**

Euvrard, Daniel ★ Résolution numérique des équations aux dérivées partielles de la physique, de la mécanique et des sciences de l'ingénieur. (French) [Numerical solution of partial differential equations in physics, mechanics and engineering] **89d:65002**

Feng, Kang *see* **Ge, Zhong, 89m:70029**

Ge, Zhong (*with* Feng, Kang) On the approximation of linear Hamiltonian systems. **89m:70029**

Glowinski, R. On a new preconditioner for the Stokes problem. (Portuguese summary) **89a:76026**

Guo, Ben Yu (*with* Cao, Wei Ming) The Fourier pseudospectral method with a restrain operator for the RLW equation. **89c:76039**

Lyumkis, E. D. *see* **Apanovich, Yu. V., 89f:76004**

Moretti, Gino A technique for integrating two-dimensional Euler equations. **89j:76022**

Morrow, R. (*with* Steinle, P.) Implicit flux-corrected transport. **89h:76035**

Noye, John Finite difference methods for solving the one-dimensional transport equation. **89a:76003**

— Time-splitting the one-dimensional transport equation. **89a:76004**

Osher, Stanley (*with* Tadmor, Eitan) On the convergence of difference approximations to scalar conservation laws. **89m:65086**

— *see also* **Brenier, Yann, 89a:65134**

Schwendeman, D. W. A numerical scheme for shock propagation in three dimensions. **89c:76077**

Steinle, P. *see* **Morrow, R., 89h:76035**

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Tadmor, Eitan *see* **Osher, Stanley, 89m:65086**

Zhang, Zuo Min *see* **Zhu, You Lan; et al., 89i:76019**

Zhong, Xi Chang *see* **Zhu, You Lan; et al., 89i:76019**

Zhu, You Lan (*with* Zhong, Xi Chang; Chen, Bing Mu; Zhang, Zuo Min) ★ Difference methods for initial-boundary value problems and flow around bodies. **89i:76019**

65M10 Stability and convergence of difference methods

Ardelyan, N. V. (*with* Chernigovskiĭ, S. V.) Stability of difference schemes of gasdynamics with viscosity and heat conductivity. **89j:65061**

Blokhin, A. M. Application of difference analogues of dissipative energy integrals to the investigation of the stability of difference schemes. (Russian) **89i:65088**

Blom, J. G. (*with* ten Thije Boonkkamp, J. H. M.; Verwer, Jan G.) Corrigendum: "On the odd-even hopscotch scheme for the numerical integration of time-dependent partial differential equations" [Appl. Numer. Math. 3 (1987), no. 1, 183–193] by ten Thije Boonkkamp and Verwer. **89b:65216**

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Brenier, Yann (*with* Osher, Stanley) The discrete one-sided Lipschitz condition for convex scalar conservation laws. **89a:65134**

Busnaina, A. A. *see* **Sharif, M. A. R., 89a:65137**

Canuto, Claudio Topics in spectral methods for hyperbolic equations. **89m:65084**

Chan, Tony F. (*with* Shen, Long Jun) Stability analysis of difference schemes for variable coefficient Schrödinger type equations. **89b:65211**

Chang, Qian Shun Difference scheme for one type of nonlinear parabolic equation. **89e:65094**

Chen, Chuan Dan (*with* Chen, Shun Long) The stability of difference approximations for two-boundary initial value problems for hyperbolic partial differential equations and its relation to stability for single-boundary problems. (Chinese. English summary) **89e:65095**

Chen, Shun Long *see* **Chen, Chuan Dan, 89e:65095**

Chernigovskiĭ, S. V. *see* **Ardelyan, N. V., 89j:65061**

Cloot, A. (*with* Herbst, B. M.) Grid resonances, focusing and Benjamin-Feir instabilities in leapfrog time discretizations. **89e:65096**

Crouzeix, Michel (*with* Thomée, Vidar) On the discretization in time of semilinear parabolic equations with nonsmooth initial data. **89c:65102**

Dai, Wei Zhong Stable explicit and semi-explicit three-level difference schemes for the dispersive equation $U_t = aU_{xxx}$. (Chinese. English summary) (Not in MR)

Dobner, H.-J. Bounds for the solution of hyperbolic problems. (German summary) **89a:65135**

Dzhuraev, I. N. (*with* Kolesnik, T. V.) Accuracy of a scheme of the method of lines for a second-order singularly perturbed equation of hyperbolic type with an elliptic operator containing mixed derivatives. (Russian. English summary) **89h:65142**

Finck von Finckenstein, Karl Graf Über Differenzenverfahren zur numerischen Lösung stark gekoppelter Systeme nichtlinearer Diffusionsgleichungen. (English summary) [On difference methods for the numerical solution of strongly coupled systems of nonlinear diffusion equations] **89g:65117**

Fishelov, Dalia The spectrum and the stability of the Chebyshev collocation operator for transonic flow. **89d:65083**

Geveci, Tunc On the convergence of a time discretization scheme for the Navier-Stokes equations. **89m:65085**

de Goede, E. D. Stabilization of the Lax-Wendroff method and a generalized one-step Runge-Kutta method for hyperbolic initial-value problems. **89d:65084**

Goodman, Jonathan (*with* Lax, Peter D.) On dispersive difference schemes. I. **89f:65094**

Gottlieb, David (*with* Lustman, Liviu; Tadmor, Eitan) Convergence of spectral methods for hyperbolic initial-boundary value systems. **89i:65089**

Guo, Ben Yu The convergence of numerical method for nonlinear Schrödinger equation. **89a:65136**

Gustafsson, Bertil Inhomogeneous conditions at open boundaries for wave propagation problems. **89b:65212**

Herbst, B. M. *see* **Cloot, A., 89e:65096** *and* **Sloan, D. M., 89i:65091**

Iserles, A. Multistep discretization of linear hyperbolic equations. **89h:65143**

Jeltsch, Rolf (*with* Kiani, Peywand; Raczek, Klaus) Counterexamples to a stability barrier. **89b:65213**

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Kiani, Peywand *see* **Jeltsch, Rolf; et al., 89b:65213**

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Lax, Peter D. *see* **Goodman, Jonathan, 89f:65094**

LeVeque, Randall J. High resolution finite volume methods on arbitrary grids via wave propagation. **89g:65118**

— Second order accuracy of Brenier's time-discrete method for nonlinear systems of conservation laws. **89d:65085**

Li, Xin Kai (*with* Piao, Zhi Chun) Stability conditions of nesting grid difference methods for hyperbolic initial boundary value problems. (Chinese. English summary) **89h:65144**

Lustman, Liviu *see* **Gottlieb, David; et al., 89i:65089**

Munz, Claus-Dieter On the numerical dissipation of high resolution schemes for hyperbolic conservation laws. **89g:65119**

Osher, Stanley (*with* Tadmor, Eitan) On the convergence of difference approximations to scalar conservation laws. **89m:65086**

— *see also* **Brenier, Yann, 89a:65134**

Pearson, Carl E. Upwind and downwind effects of numerical approximations to wave equations. **89d:65086**

Piao, Zhi Chun *see* **Li, Xin Kai, 89h:65144**

Prządka, Katarzyna Convergence of one-step difference methods for first order partial differential-functional equations. **89c:65103**

Raczek, Klaus *see* **Jeltsch, Rolf; et al., 89b:65213**

Roberts, Stephen Convergence of a random walk method for the Burgers equation. **89i:65090**

Sanders, Richard A third-order accurate variation nonexpansive difference scheme for single nonlinear conservation laws. **89c:65104**

Schumann, Rainer The convergence of Rothe's method for parabolic differential equations. (German and Russian summaries) **89b:65214**

Sharif, M. A. R. (*with* Busnaina, A. A.) An investigation into the numerical dispersion problem of the skew upwind finite difference scheme. **89a:65137**

Shen, Long Jun Convergence conditions of the explicit and weak implicit finite difference schemes for parabolic systems. **89a:65138**

— *see also* **Chan, Tony F., 89b:65211**

Shishkin, G. I. Grid approximation of singularly perturbed parabolic equations with internal layers. **89k:65109**

Sloan, D. M. (*with* Herbst, B. M.) Review of some results on modulational instabilities in nonlinear difference schemes. **89i:65091**

Socolovsky, E. A. Lagrangian nonoscillatory and FEM schemes for the porous media equation. **89m:65087**

Tadmor, Eitan *see* **Gottlieb, David; et al., 89i:65089** *and* **Osher, Stanley, 89m:65086**

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— *see also* **Blom, J. G.; et al., 89b:65216**

Thomée, Vidar *see* **Crouzeix, Michel, 89c:65102**

Trefethen, Lloyd N. (*with* Trummer, Manfred R.) An instability phenomenon in spectral methods. **89a:65139**

Trummer, Manfred R. *see* **Trefethen, Lloyd N., 89a:65139**

Turkel, Eli Algorithms for the Euler and Navier-Stokes equations for supercomputers. **89a:65140**

Verwer, Jan G. *see* **ten Thije Boonkkamp, J. H. M., 89b:65215** *and* **Blom, J. G.; et al., 89b:65216**

Vila, J.-P. High-order schemes and entropy condition for nonlinear hyperbolic systems of conservation laws. **89b:65217**

Voloshin, S. A. Stability of a monotone scheme. **89f:65095**

Wang, Hong[1] *see* **Yuan, Yi Rang, 89k:65110**

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— *see also* **Zhu, You Lan, 89h:65145**

Yuan, Yi Rang (*with* Wang, Hong[1]) The discrete-time finite element methods for nonlinear hyperbolic equations and their theoretical analysis. **89k:65110**

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— *see also* **Yong, Wen An, 89b:65218**

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Beam, Richard M. *see* **Warming, Robert F., (89c:76003)**

Berger, Marsha On conservation at grid interfaces. **89b:65203**

Bertossi, Leopoldo An example of rate of convergence in the finite element method. (Spanish) **89g:65122**

Bukhgeĭm, A. L. ★ Разностные методы решения некорректных задач. (Russian) [Difference methods for solving ill-posed problems] **89h:65089**

Chen, Gui Qiang Convergence of the Lax-Friedrichs scheme for isentropic gas dynamics. III. **89f:76007**

— *see also* **Ding, Xia Xi; et al., 89f:76006**

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Dee, Dick P. *see* **Cohn, Stephen E., 89i:93012**

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Kraaijevanger, J. F. B. M. (*with* Lenferink, H. W. J.; Spijker, M. N.) Stepsize restrictions for stability in the numerical solution of ordinary and partial differential equations. **89a:65128**

Lenferink, H. W. J. *see* **Kraaijevanger, J. F. B. M.; et al., 89a:65128**

Luo, Pei Zhu *see* **Ding, Xia Xi; et al., 89f:76006**

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Moseenkov, B. I. (*with* Moseenkov, V. B.) On the solvability and stability of an axisymmetric problem of convection in the presence of dissipative energy. (Russian) **89a:35125**

Moseenkov, V. B. *see* **Moseenkov, B. I., 89a:35125**

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Nelson, Paul, Jr. *see* **Keller, H. B., 89h:82060**

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Sanz-Serna, J. M. A numerical method for a partial integro-differential equation. **89d:65113**

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Shu, Chi-Wang TVB uniformly high-order schemes for conservation laws. **89b:65208**

Sloan, D. M. *see* **Jamieson, S. M., 89e:65112**

Smagulov, Sh. (*with* Zhanasbaeva, U. B.) Approximate methods for solving a problem of magnetogasdynamics with variable viscosity. (Russian) **89j:76026**

Spijker, M. N. *see* **Kraaijevanger, J. F. B. M.; et al., 89a:65128**

Steinle, P. *see* **Morrow, R., 89h:76035**

Tang, Tao On three-point second-order accurate conservative difference schemes. **89g:65115**

Warming, Robert F. (*with* Beam, Richard M.) Stability of semi-discrete approximations for hyperbolic initial-boundary value problems. II. Asymptotic estimates. (*see* **89c:76003**)

Ying, Long An The compensated compactness method and its application to quasilinear hyperbolic equations. (Chinese. English summary) **89i:35015**

Zabolotnyĭ, S. N. *see* **Demchenko, V. F.; et al., (89f:00005)**

Zhanasbaeva, U. B. *see* **Smagulov, Sh., 89j:76026**

65M15 Error bounds

Arney, David C. (*with* Biswas, Rupak; Flaherty, Joseph E.) A posteriori error estimation of adaptive finite difference schemes for hyperbolic systems. **89d:65088**

Bales, L. A. Error estimates for single step fully discrete approximations for nonlinear second order hyperbolic equations. **89h:65146**

Biswas, Rupak *see* **Arney, David C.; et al., 89d:65088**

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Maday, Yvon (*with* Quarteroni, A.) Error analysis for spectral approximation of the Korteweg-de Vries equation. (French summary) **89k:65111**

Otta, A. K. *see* **Padhy, S., (Not in MR)**

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Nochetto, Ricardo H. *see* **Magenes, E.; et al., 89b:65220**

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Strikwerda, John C. (*with* Wade, Bruce A.) An extension of the Kreiss matrix theorem. **89m:15018**

Tadmor, Eitan *see* **Gottlieb, David; et al., 89i:65089**

Takači, Djurdjica On the form of the approximate solution of a partial differential equation. (Serbo-Croatian summary) **89f:44015**

Verdi, Claudio *see* **Magenes, E.; et al., 89b:65220**

Wade, Bruce A. *see* **Strikwerda, John C., 89m:15018**

Wang, Hong[1] *see* **Yuan, Yi Rang, 89k:65110**

Xiang, Xin Min Spectral method for solving the system of equations of Schrödinger-Klein-Gordon field. **89f:35044**

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65M20 Method of lines

Berzins, M. Global error estimation in the method of lines for parabolic equations. **89e:65097**

Kamont, Z. (*with* Zacharek, S.) The line method for parabolic differential-functional equations with initial boundary conditions of the Dirichlet type. **89g:65120**

Kopystyra, N. P. (*with* Sakhtaganova, A. T.) Convergence of the method of lines for a quasilinear parabolic equation with delay. (Russian) **89b:65219**

Magenes, E. (*with* Nochetto, Ricardo H.; Verdi, Claudio) Energy error estimates for a linear scheme to approximate nonlinear parabolic problems. (French summary) **89b:65220**

Nochetto, Ricardo H. *see* **Magenes, E.; et al., 89b:65220**

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Strehmel, K. (*with* Weiner, R.) Uniformly consistent and convergent linearly implicit Runge-Kutta schemes in the method of lines. **89e:65098**

Verdi, Claudio *see* **Magenes, E.; et al., 89b:65220**

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Weiner, R. *see* **Strehmel, K., 89e:65098**

Zacharek, S. *see* **Kamont, Z., 89g:65120**

Items with secondary classifications in 65M20

Dzhuraev, I. N. (*with* Kolesnik, T. V.) Accuracy of a scheme of the method of lines for a second-order singularly perturbed equation of hyperbolic type with an elliptic operator containing mixed derivatives. (Russian. English summary) **89h:65142**

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Kolesnik, T. V. *see* **Dzhuraev, I. N., 89h:65142**

Neustupa, Jiří *see* **Jirásek, F., 89k:76074**

65M25 Method of characteristics

Bercovier, Michel *see* **Schatzman, Michelle, 89k:65112**

Ivanov, V. L. A method for approximation of systems of hyperbolic equations containing large parameters in nondifferential terms. (Russian) **89a:65143**

Schatzman, Michelle (*with* Bercovier, Michel) Numerical approximation of a wave equation with unilateral constraints. **89k:65112**

tems with secondary classifications in 65M25

hen, Bing Mu *see* **Zhu, You Lan; et al., 89i:76019**

atsya, S. R. A representation and approximation of the solutions of hyperbolic differential equations. **89g:35024**

hang, Zuo Min *see* **Zhu, You Lan; et al., 89i:76019**

hong, Xi Chang *see* **Zhu, You Lan; et al., 89i:76019**

hu, You Lan (*with* Zhong, Xi Chang; Chen, Bing Mu; Zhang, Zuo Min) ★ Difference methods for initial-boundary value problems and flow around bodies. **89i:76019**

5M30 Improperly posed problems

hen, Yung Ming Parallelism by hierarchy of GPST inversion algorithm for elastic wave equation. **89b:65221**

ustafsson, Bertil Unsymmetric hyperbolic systems and the Euler equations at low Mach numbers. **89b:65222**

lurio, D. A. Parameter selection by discrete mollification and the numerical solution of the inverse heat conduction problem. **89i:65093**

tems with secondary classifications in 65M30

ukhgeim, A. L. ★ Разностные методы решения некорректных задач. (Russian) [Difference methods for solving ill-posed problems] **89h:65089**

ilyazov, S. F. ★ Методы решения линейных некорректных задач. (Russian) [Methods for solving linear ill-posed problems] **89c:65002**

lorozov, V. A. ★ Регулярные методы решения некорректно поставленных задач. (Russian) [Regular methods for solving ill-posed problems] **89f:65063**

5M50 Mesh generation and refinement

nderson, Dale A. Equidistribution schemes, Poisson generators, and adaptive grids. **89b:65223**

scoli, E. P. (*with* Dandy, D. S.; Leal, L. G.) On distortion functions for the strong constraint method of numerically generating orthogonal coordinate grids. **89h:65147**

lom, J. G. (*with* Sanz-Serna, J. M.; Verwer, Jan G.) On simple moving grid methods for one-dimensional evolutionary partial differential equations. **89f:65097**

harakhch′yan, A. A. *see* **Ivanenko, S. A., 89h:65148**

andy, D. S. *see* **Ascoli, E. P.; et al., 89h:65147**

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lyman, James M. Moving mesh methods for partial differential equations. **89b:65224**

vanenko, S. A. (*with* Charakhch′yan, A. A.) An algorithm for constructing curvilinear grids consisting of convex quadrangles. **89h:65148**

eal, L. G. *see* **Ascoli, E. P.; et al., 89h:65147**

öhner, Rainald Some useful data structures for the generation of unstructured grids. **89b:65225**

lazhukin, V. I. *see* **Dar′in, N. A., 89a:65144** *and* **89f:65098**

uarteroni, A. Domain decomposition techniques using spectral methods. **89h:65149**

anz-Serna, J. M. *see* **Blom, J. G.; et al., 89f:65097**

aunders, B. V. (*with* Smith, Philip W.) Grid generation and optimization using tensor product *B*-splines. **89c:65105**

mith, Philip W. *see* **Saunders, B. V., 89c:65105**

wartz, Blair Courant-like conditions limit reasonable mesh refinement to order h^2. **89g:65121**

erwer, Jan G. *see* **Blom, J. G.; et al., 89f:65097**

tems with secondary classifications in 65M50

aines, M. J. Recent developments in moving finite element methods. (*see* **89c:65004**)

aron, Judson R. *see* **Pervaiz, Mehtab M., 89g:76010**

ernard, Robert S. Skew grids and irrotational flow. **89d:76002**

ropp, William Local uniform mesh refinement on loosely-coupled parallel processors. **89d:65123**

latsokin, A. M. (*with* Nepomnyashchikh, S. V.) Norms in the space of traces of mesh functions. **89i:65128**

McCormick, Stephen F.) *see* **Multigrid methods, 89m:65004**

lepomnyashchikh, S. V. *see* **Matsokin, A. M., 89i:65128**

ervaiz, Mehtab M. (*with* Baron, Judson R.) Temporal and spatial adaptive algorithm for reacting flows. **89g:76010**

ushchuk, L. I. Automatic triangulation of the plane domains of a complex logical structure for solving boundary value problems by the finite element method. (Russian) **89b:65294**

tems listed otherwise than by author

lultigrid methods ★ Multigrid methods. **89m:65004**

5M60 Finite elements, Rayleigh-Ritz and Galerkin methods, finite methods

aines, M. J. Recent developments in moving finite element methods. (*see* **89c:65004**)

ales, L. A. (*with* Dougalis, Vassilios A.) Cosine methods for nonlinear second-order hyperbolic equations. **89k:65113**

ertossi, Leopoldo An example of rate of convergence in the finite element method. (Spanish) **89g:65122**

rebbia, Carlos Alberto (*with* Wrobel, L. C.) The solution of parabolic problems using the dual reciprocity boundary element. **89b:65226**

arey, G. F. *see* **Jiang, B.-N., 89g:65123**

arlson, Neil (*with* Miller, Keith) Gradient weighted moving finite elements in two dimensions. **89i:65094**

hen, Goong (*with* Tsai, Ying-Liang) The boundary element numerical method for two-dimensional linear quadratic elliptic problems. I. Neumann control. **89a:65145**

hilds, P. N. *see* **Morton, K. W., (89j:35007)**

Donéa, J. (*with* Selmin, V.; Quartapelle, L.) Recent developments of the Taylor-Galerkin method for the numerical solution of hyperbolic problems. (*see* **89j:76004**)

Dougalis, Vassilios A. *see* **Bales, L. A., 89k:65113**

Douglas, Jim, Jr. (*with* Santos, Juan Enrique) Approximation of waves in composite media. (*see* **89c:65004**)

Dutra do Carmo, Eduardo Gomes *see* **Galeão, Augusto Cesar, 89e:65099**

Flaherty, Joseph E. *see* **Moore, Peter K., 89d:65089**

Fröhner, Michael Ein Galerkin-Verfahren zur numerischen Lösung der Burgers-Gleichung. [A Galerkin method for the numerical solution of the Burgers equation] **89a:65146**

Frykestig, Jan *see* **Wiberg, Nils-Erik, (89c:65004)**

Galeão, Augusto Cesar (*with* Dutra do Carmo, Eduardo Gomes) A consistent approximate upwind Petrov-Galerkin method for convection-dominated problems. **89e:65099**

Glowinski, R. Viscous flow simulation by finite element methods and related numerical techniques. **89f:65099**

Hasan, A. (*with* Kalra, M. S.) Comparison of some numerical schemes for the KdV equation. (*see* **89b:00027**)

Hebeker, F.-K. A boundary element spectral method for nonstationary Navier-Stokes flows. (*see* **89c:65004**)

Hemker, P. W. Multigrid and improved accuracy for the Euler equations. **89h:65150**

Heywood, John G. (*with* Rannacher, R.) Finite element approximation of the nonstationary Navier-Stokes problem. III. Smoothing property and higher order error estimates for spatial discretization. **89k:65114**

Hilbert, David An efficient Navier-Stokes solver and its application to fluid flow in elastic tubes. **89j:65062**

Jiang, B.-N. (*with* Carey, G. F.) A stable least-squares finite element method for nonlinear hyperbolic problems. **89g:65123**

Kalra, M. S. *see* **Hasan, A., (89b:00027)**

Kang, Li Shan *see* **Shao, Jian Ping; et al., 89k:65115**

Laevskiĭ, Yu. M. Alternating direction Galerkin method of solving the third boundary value problem for two-dimensional parabolic equations. **89a:65147**

Lin, Cai Han *see* **Shao, Jian Ping; et al., 89k:65115**

Liu, Xiao Bo *see* **Zhang, Zhong Liang, 89k:65116**

Ma, Si Liang *see* **Yan, Guang Jie, 89c:65108**

Miller, Keith *see* **Carlson, Neil, 89i:65094**

Moore, Peter K. (*with* Flaherty, Joseph E.) An adaptive overlapping local grid refinement method for two-dimensional parabolic systems. **89d:65089**

Morris, J. Ll. *see* **Tourigny, Y., 89d:65090**

Morton, K. W. Finite element methods for hyperbolic equations. **89c:65106**

— Galerkin finite element methods and their generalisations. **89e:65100**

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Nochetto, Ricardo H. Error estimates for multidimensional singular parabolic problems. **89c:65107**

Oden, J. T. Adaptive finite element methods in complex flow problems. (*see* **89c:65004**)

Quartapelle, L. *see* **Donéa, J.; et al., (89j:76004)**

Rannacher, R. *see* **Heywood, John G., 89k:65114**

Santos, Juan Enrique *see* **Douglas, Jim, Jr., (89c:65004)**

Selmin, V. *see* **Donéa, J.; et al., (89j:76004)**

Sever, Michael Order of dissipation near rarefaction centers. **89b:65227**

Shao, Jian Ping (*with* Kang, Li Shan; Lin, Cai Han) The weak approximation Galerkin method for the solution of evolution equations. (Chinese. English summary) **89k:65115**

Takagi, Shunsuke Spline-based finite-element method for solving a Stefan's problem in a finite domain-formulation. (*see* **89b:00029**)

Tourigny, Y. (*with* Morris, J. Ll.) An investigation into the effect of product approximation in the numerical solution of the cubic nonlinear Schrödinger equation. **89d:65090**

Tsai, Ying-Liang *see* **Chen, Goong, 89a:65145**

Wang, Hong[1] Stability and convergence of a finite element method for a nonstationary nonlinear fourth order equation. (Chinese) **89f:65100**

Wiberg, Nils-Erik (*with* Frykestig, Jan) Adaptive and hierarchical time integration of convection-diffusion problems. (*see* **89c:65004**)

Wrobel, L. C. *see* **Brebbia, Carlos Alberto, 89b:65226**

Xiang, Xin Min Finite element analysis for a class of systems of multidimensional nonlinear wave equations. (Chinese. English summary) **89b:65228**

Yan, Guang Jie (*with* Ma, Si Liang) Analysis and improvement of the EPG and CNPG methods. (Chinese. English summary) **89c:65108**

Zhang, Zhong Liang (*with* Liu, Xiao Bo) A space-time finite element method for parabolic equations. (Chinese. English summary) **89k:65116**

Items with secondary classifications in 65M60

Babuška, I. Information-based numerical practice. **89f:65056**

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Bubnov, B. A. ★ К вопросу о разрешимости многомерных обратных задач для параболических уравнений. (Russian) [On the problem of the solvability of multidimensional inverse problems for parabolic equations] **89g:35112**

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Euvrard, Daniel ★ Résolution numérique des équations aux dérivées partielles de la physique, de la mécanique et des sciences de l'ingénieur. (French) [Numerical solution of partial differential equations in physics, mechanics and engineering] **89d:65002**

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Johnson, Claes ★ Numerical solution of partial differential equations by the finite element method. **89b:65003a**

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(Kardestuncer, H.) *see* **Handbook: Finite element, 89g:65001**

Laval, H. *see* **Donéa, J., 89c:80001**

Namburu, Raju R. *see* **Tamma, Kumar K., 89j:73008**

(Norrie, D. H.) *see* **Handbook: Finite element, 89g:65001**

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Piccioni, M. *see* **Germani, A., 89f:60063**

Reddy, J. N. *see* **Iga, M., (89c:65004)**

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Handbook:

Finite element ★ Finite element handbook. **89g:65001**

65M99 None of the above, but in this section

Abarbanel, Saul (*with* Gottlieb, David) Information content in spectral calculations. **89b:65229**

Alekseev, V. A. Perturbation algorithms in the investigation of the behavior of the invariants of the vortex equation. Numerical experiments. (Russian) **89b:65230**

Bayliss, Alvin (*with* Li, Yanyan; Morawetz, Cathleen Synge) Scattering by a potential using hyperbolic methods. **89m:65088**

Brebbia, Carlos Alberto *see* **Nardini, D., (89f:65003)**

Craig, I. J. D. (*with* Sneyd, A. D.) An alternating-direction implicit scheme for parabolic equations with mixed derivatives. **89g:65124**

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Dey, Charlie *see* **Dey, S. K., 89j:65063**

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Edenhofer, Johann *see* **Czirwitzky, Hans-Joachim, (89i:00018)**

Engquist, Björn (*with* Halpern, Laurence) Far field boundary conditions for computation over long time. **89c:65109**

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Gavrilyuk, V. N. (*with* Semushin, S. A.) A monotone scheme of the second order of accuracy for the calculation of three-dimensional flows of an inviscid gas. (Russian) **89j:65064**

Gottlieb, David *see* **Abarbanel, Saul, 89b:65229**

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Guo, Ben Yu (*with* Ma, He Ping) Fourier pseudospectral method for Burgers equation. **89b:65231**

— (*with* Ma, He Ping) The Fourier pseudospectral method for three-dimensional vorticity equations. **89m:65089**

— *see also* **Ma, He Ping, 89c:65110** *and* **89i:65096**

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Halpern, Laurence *see* **Engquist, Björn, 89c:65109**

Hariharan, S. I. *see* **Hagstrom, T. M., 89b:65232**

Holden, Helge (*with* Holden, L.) On some recent results for an explicit conservation law of mixed type in one dimension. (*see* **89j:35007**)

Holden, L. *see* **Holden, Helge, (89j:35007)**

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Iyengar, Satteluri R. K. (*with* Manohar, R.) High order difference methods for heat equation in polar cylindrical coordinates. **89g:65126**

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Laevskiĭ, Yu. M. ★ Пространственно-неоднородные проекционно-сеточные схемы решения параболических уравнений. (Russian) [Spatially inhomogeneous projection-difference schemes for solving parabolic equations] **89g:65127**

van Leer, B. *see* **Roe, P. L., (89j:76004)**

Li, Yanyan *see* **Bayliss, Alvin; et al., 89m:65088**

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— (*with* Guo, Ben Yu) The Fourier pseudospectral method for solving two-dimensional vorticity equations. (Chinese. English summary) **89i:65096**

— *see also* **Guo, Ben Yu, 89b:65231** *and* **89m:65089**

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Morawetz, Cathleen Synge *see* **Bayliss, Alvin; et al., 89m:65088**

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Nardini, D. (*with* Brebbia, Carlos Alberto) The solution of parabolic and hyperbolic problems using an alternative boundary element formulation. (*see* **89f:65003**)

Ọlaọfẹ, G. Olurẹmi *see* **Mason, John C., 89g:65128**

Pokhilko, V. I. *see* **Mazhorova, O. S.; et al., 89f:65101**

Popov, Yu. P. *see* **Mazhorova, O. S.; et al., 89f:65101**

Posashkov, S. A. *see* **Galaktionov, V. A., 89i:65095**

Roe, P. L. (*with* van Leer, B.) Nonexistence, nonuniqueness and slow convergence in discrete conservation laws. (*see* **89j:76004**)

Sanugi, B. B. *see* **Evans, David J.**, (Not in MR)

Sanz-Serna, J. M. (*with* Verwer, Jan G.) Conservative and nonconservative schemes for the solution of the nonlinear Schrödinger equation. **89h:65153**

Scott, R. A. *see* **Mugler, D. H., 89h:65152**

Semushin, S. A. *see* **Gavrilyuk, V. N., 89j:65064**

Shamardan, A. B. *see* **Ibrahim, M. A.-K.; et al., 89b:65233**

Sneyd, A. D. *see* **Craig, I. J. D., 89g:65124**

Stashkevich, V. I. Matrix-differential methods for solving boundary value problems for the nonlinear one-dimensional heat equation. (Russian) **89e:65101**

Takei, Eiji *see* **Yabe, Takashi, 89i:65097**

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Verwer, Jan G. *see* **Sanz-Serna, J. M., 89h:65153**

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Yabe, Takashi (*with* Takei, Eiji) A new higher-order Godunov method for general hyperbolic equations. **89i:65097**

Yousef, Y. K. *see* **Ibrahim, M. A.-K.; et al., 89b:65233**

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de Aguiar, M. A. M. (*with* Malta, C. P.; Baranger, M.; Davies, K. T. R.) Bifurcations of periodic trajectories in nonintegrable Hamiltonian systems with two degrees of freedom: numerical and analytical results. **89b:58175**

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Klingenberg, Christian (*with* Osher, Stanley) Nonconvex scalar conservation laws in one and two space dimensions. (*see* **89j:35007**)

Kogan, V. R. *see* **Braĭlovskaya, V. A., 89k:76025**

Kuznetsova, O. F. *see* **Enikeev, I. Kh.; et al., 89c:76104**

Lerat, A. (*with* Sidès, J.) Efficient solution of the steady Euler equations with a centered implicit method. (*see* **89j:76004**)

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Malta, C. P. *see* **de Aguiar, M. A. M.; et al., 89b:58175**

Nessel, R. J. *see* **Dickmeis, W.; et al., 89h:41001**

Osher, Stanley *see* **Klingenberg, Christian, (89j:35007)**

Polyanskiĭ, V. A. *see* **Enikeev, I. Kh.; et al., 89c:76104**

Pulliam, Thomas H. Implicit methods in CFD. (*see* **89j:76004**)

Rafajłowicz, Ewaryst Distributed parameter systems analysis by tracking stationary points of their states. **89d:35101**

Schaeffer, Jack Discrete approximation of the Poisson - Vlasov system. **89g:35103**

Shurgal′skiĭ, È. F. *see* **Enikeev, I. Kh.; et al., 89c:76104**

Shvachka, A. B. *see* **Topunov, V. L., 89h:58003**

Sidès, J. *see* **Lerat, A., (89j:76004)**

Toparkus, Heinz Zur lokalen Darstellung implizit gegebener Abbildungen durch Lie-Reihen. [On the local representation of implicitly defined mappings by Lie series] **89a:65114**

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van Wickeren, E. *see* **Dickmeis, W.; et al., 89h:41001**

Ying, Long An Convergence study for viscous splitting in bounded domains. **89h:65163**

Zhou, Ting Gui Third-order quasilinear totally hyperbolic equations and sequences of their upper and lower solutions. (Chinese. English summary) **89a:35140**

65Nxx Partial differential equations, boundary value problems

Bramble, James H. (*with* Pasciak, Joseph E.) New convergence estimates for multigrid algorithms. **89b:65234**

Haftmann, Rolf Numerical methods for two-dimensional exterior elliptic boundary value problems. (Not in MR)

Pasciak, Joseph E. *see* **Bramble, James H., 89b:65234**

Ryaben′kiĭ, V. S. ★ Метод разностных потенциалов для некоторых задач механики сплошных сред. (Russian) [The method of difference potentials for some problems of continuum mechanics] **89h:65154**

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(Chan, Tony F.) *see* **Domain decomposition methods, 89j:65010**

(Glowinski, R.) *see* **Domain decomposition methods, 89j:65010**

Molchanov, I. N. ★ Машинные методы решения прикладных задач. Дифференциальные уравнения. (Russian) [Computer methods for solving applied problems. Differential equations] **89k:65003**

(Périaux, Jacques) *see* **Domain decomposition methods, 89j:65010**

Spalviņš, A.) *see* **Computer technology and boundary value problems. Methods and specialized hardware and software, 89c:65003**

asil′ev, V. I. ★ Численное интегрирование дифференциальных уравнений с нелокальными граничными условиями. (Russian) [Numerical integration of differential equations with nonlocal boundary conditions] **89b:65008**

Widlund, Olof B.) *see* **Domain decomposition methods, 89j:65010**

ems listed otherwise than by author

omputer technology and boundary value problems. Methods and specialized hardware and software ★ Вычислительная техника и краевые задачи. Методы и специализированные вычислительные средства. (Russian) [Computer technology and boundary value problems. Methods and specialized hardware and software] **89c:65003**

omain decomposition methods ★ Domain decomposition methods. **89j:65010**

os Angeles, CA ★ Domain decomposition methods. **89j:65010**

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Domain Decomposition Methods ★ Domain decomposition methods. **89j:65010**

5N05 Derivation of finite difference approximations

brashin, V. N. (*with* Dzyuba, I. A.; Minchenkov, Yuriĭ) Difference schemes for the method of variable directions for a system of Maxwell equations. (Russian) **89h:65155**

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— (*with* Zhadaeva, N.) Difference schemes for problems of mathematical physics in a domain of arbitrary form. (Russian) **89k:65118**

l-Hawaj, A. Y. *see* **Khaliq, A. Q. M., 89e:65103**

elov, Yu. A. (*with* Zrazhevskaya, V. F.) A modification of the Newton method for solving the Dirichlet problem for the equation $\Delta u = f(x, u)$. (Russian) **89b:65235**

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oglaev, I. P. A numerical method for solving a quasilinear elliptic equation with a small parameter multiplying the highest derivatives. (Russian) **89f:65102**

hernikov, A. A. Application of asymmetric schemes on triangular grids for the solution of the heat equation. (Russian) **89d:65091**

utt, Pravir Stable boundary conditions and difference schemes for Navier-Stokes equations. **89b:65236**

zyuba, I. A. *see* **Abrashin, V. N.; et al., 89h:65155**

gorov, Andreĭ *see* **Abrashin, V. N.; et al., 89k:65117**

mel′yanov, K. V. Difference schemes for singularly perturbed boundary value problems. **89c:65112**

inogenov, S. A. (*with* Kuznetsov, Yuriĭ Alekseevich) Two-stage fictitious components method for solving the Dirichlet boundary value problem. **89k:65119**

romyko, G. F. A class of difference schemes for problems of heat conduction. (Russian) **89h:65156**

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vanov, M. Ya. (*with* Nigmatullin, R. Z.) S. K. Godunov's implicit scheme of increased accuracy for the numerical integration of Euler equations. (Russian) **89h:65157**

avokin, A. A. *see* **Besinbaev, S.; et al.,** (**89a:00016**)

haliq, A. Q. M. (*with* Al-Hawaj, A. Y.) A third order finite-difference method for two-dimensional parabolic equations. **89e:65103**

im, Ho *see* **Song, Chang Ho, 89f:65107**

uo, C.-C. Jay (*with* Levy, Bernard C.) Mode-dependent finite-difference discretization of linear homogeneous differential equations. **89h:65158**

uraev, G. N. A locally one-dimensional scheme for a non-steady-state problem of heat conduction with radiation on the boundary. **89k:65120**

uznetsov, Yuriĭ Alekseevich *see* **Finogenov, S. A., 89k:65119**

anger, Ulrich A fast iterative method for solving the first boundary value problem for the biharmonic equation. (Russian) **89d:65092**

evy, Bernard C. *see* **Kuo, C.-C. Jay, 89h:65158**

iem, Chin Bo *see* **Lü, Tao; et al., 89i:65098**

in, Qun *see* **Lü, Tao; et al., 89a:65148**

iu, Shao Zhong *see* **Yang, Shao Hua; et al., 89d:65093**

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uk′yanov, A. T. *see* **Besinbaev, S.; et al.,** (**89a:00016**)

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inchenkov, Yuriĭ *see* **Abrashin, V. N.; et al., 89h:65155**

orawiec, Grażyna Approximation of the Dirichlet problem by a nonuniform grid on the boundary. (Polish. English summary) **89f:65103**

igmatullin, R. Z. *see* **Ivanov, M. Ya., 89h:65157**

ao, C. V. Monotone methods for numerical solution of reaction-diffusion equations. **89f:65104**

igal, Alain SOR methods for coupled elliptic partial differential equations. **89f:65105**

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hashkov, M. Yu. *see* **Solov′ëv, A. V., 89b:65238**

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hih, Tsi Min *see* **Lü, Tao; et al., 89i:65098**

hishkin, G. I. Approximation of solutions of singularly perturbed boundary value problems with a corner boundary layer. (Russian) **89a:65149**

— A difference scheme for a singularly perturbed equation of parabolic type with a discontinuous initial condition. **89m:65091**

Shkel′, V. A. *see* **Abrashin, V. N.; et al., 89k:65117**

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Spigler, Renato Numerical treatment of a boundary-value problem for a certain singular parabolic partial differential equation. **89e:65104**

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Štikonas, Artūras A difference scheme for equations of the symmetrical motion of a viscous barotropic gas. (Russian. English and Lithuanian summaries) **89m:65092**

Strebkov, E. V. A difference scheme for a problem on the equilibrium of an elastic body of revolution. **89f:65109**

Sukhinov, A. I. Approximation of the three-dimensional heat equation by locally two-dimensional schemes in cylindrical and spherical coordinates. (Russian) **89a:65150**

Tsurko, V. A. (*with* Yakubenya, A. N.) A flow variant of difference schemes for the numerical solution of a problem of Stefan type. (Russian. English summary) **89b:65239**

Vabishchevich, P. N. Forward calculation difference schemes for some problems in mathematical physics. **89i:65099**

Wen, Xing Gui *see* **Yang, Shao Hua; et al., 89d:65093**

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Xu, Ming Bao *see* **Yang, Shao Hua; et al., 89d:65093**

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Zhadaeva, N. *see* **Abrashin, V. N., 89k:65118**

Zhou, Guo Fu *see* **Lü, Tao; et al., 89a:65148**

Zrazhevskaya, V. F. *see* **Belov, Yu. A., 89b:65235**

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Falk, Richard S. *see* **Arnold, D. N., 89f:73020**

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Hussaini, M. Y. *see* **Erlebacher, G.; et al., 89m:76007**

Khaliq, A. Q. M. *see* **Twizell, E. H., 89e:65092**

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Kuznetsov, S. B. *see* **Kuznetsov, I. B., 89b:65332**

Ng-Stynes, Mary Jeanne (*with* O'Riordan, Eugene; Stynes, Martin) Numerical methods for time-dependent convection-diffusion equations. **89e:65089**

O'Riordan, Eugene *see* **Ng-Stynes, Mary Jeanne; et al., 89e:65089**

Reznik, A. A. Metric properties of boundary potentials and of Green operators of elliptic difference operators. (Russian) **89h:35098**

Rice, John Rischard *see* **Houstis, E. N.; et al., 89a:65178**

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(Strikwerda, John C.) *see* **Roache, Patrick J., 89k:76036**

Stynes, Martin *see* **Ng-Stynes, Mary Jeanne; et al., 89e:65089**

Tatarskiĭ, V. I. *see* **Sabel′fel′d, K. K., 89b:65026**

Twizell, E. H. (*with* Khaliq, A. Q. M.) Global extrapolation methods for fourth order parabolic partial differential equations. (Arabic summary) **89e:65092**

Vanbegin, M. *see* **Charlier, J.-P.; et al., 89b:65092**

Van Dooren, Paul *see* **Charlier, J.-P.; et al., 89b:65092**

Vavalis, E. A. *see* **Houstis, E. N.; et al., 89a:65178**

Vinogradov, Yu. I. Computational methods and the construction of algorithms for the solution of boundary value problems of structural mechanics. **89g:73039**

Zang, T. A. *see* **Erlebacher, G.; et al., 89m:76007**

Zlotnik, A. A. *see* **Amosov, A. A., 89g:65111**

65N10 Stability and convergence of difference methods

Abou El-Seoud, M. Samir Numerische Lösung einer Klasse nichtlinearer elliptischer Randwertprobleme mit Hilfe eines monoton einschließend konvergenten Iterationsverfahrens. [Numerical solution of a class of nonlinear elliptic boundary value problems with the aid of a monotonically inclusive convergent iteration method] **89j:65065**

Abrashin, V. N. (*with* Shkel′, V. A.) A class of difference schemes for solving nonlinear equations of hyperbolic type. (Russian. English summary) **89e:65105**

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Anantha Krishnaiah, U. *see* **Manohar, R.; et al., 89g:65132**

Azevedo, J. L. T. (*with* Durst, F.; Pereira, J. C. F.) Comparison of strongly implicit procedures for the solution of the fluid flow equations in finite difference form. **89b:65241**

Beam, Richard M. *see* **Warming, Robert F.**, (**89j:35007**)

Belova, O. N. (*with* Karlin, V. A.) Investigation of some model problems connected with the parabolized Navier-Stokes equations. (Russian. English summary) **89b:65242**

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Denisov, A. A. (*with* Koldoba, A. V.; Kuznetsov, O. A.; Poveshchenko, Yu. A.) Convergence of difference schemes of the method of support operators for the Poisson equation on generalized solutions. (Russian) **89h:65160**

Dey, S. K. Effects of boundary conditions on numerical solution of implicit hyperbolic difference equations. **89g:65130**

Durst, F. *see* **Azevedo, J. L. T.; et al., 89b:65241**

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Guirguis, Georges H. On the competition between artificial methods and boundary integral methods for the Stokes equations in exterior domains. **89e:65107**

Hegarty, A. F. Uniformly accurate methods for two-dimensional singular perturbation problems. **89b:65243**

Huang, You Qian *see* **Xu, Yue Sheng, 89i:65105**

Iyengar, Satteluri R. K. *see* **Manohar, R.; et al., 89g:65132**

Jovanović, Boško S. Approximation of generalized solutions by means of finite differences. (Russian) **89e:65108**

Kalinin, V. M. *see* **Voĭtsekhovskiĭ, S. A.; et al., 89b:65244**

Kamornikov, A. F. *see* **Golik, S. I., 89a:65151**

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Kyazimov, Dzh. K. Stability of computational processes by the use of a mathematical programming method. (Russian) **89g:65131**

Lin, Jian-Tong The numerical analysis of a phase field model in moving boundary problems. **89h:65161**

Ma, He Ping Spectral methods for the generalized Korteweg-de Vries-Burgers system and their error estimates. (Chinese. English summary) **89i:65102**

Makarov, Vladimir Leonidovich *see* **Voĭtsekhovskiĭ, S. A.; et al., 89b:65244**

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Novichenko, V. N. *see* **Voĭtsekhovskiĭ, S. A., 89m:65093**

Pasciak, Joseph E. *see* **Bramble, James H.; et al., 89i:65101**

Pereira, J. C. F. *see* **Azevedo, J. L. T.; et al., 89b:65241**

Poveshchenko, Yu. A. *see* **Denisov, A. A.; et al., 89h:65160**

Rigal, Alain Analyse de stabilité de problèmes mixtes de diffusion-convection. (English summary) [Stability analysis of some unsteady diffusion-convection problems] **89e:65110**

Roos, H.-G. *see* **Koeppe, G.; et al., 89c:65113**

Sacchi Landriani, G. Convergence of the Kleiser Schumann method for the Navier-Stokes equations. **89h:65162**

Sammon, P. H. *see* **Forsyth, Peter A., 89e:65106** *and* **Bramble, James H.; et al., 89i:65101**

Serdyukova, S. I. *see* **Mazepa, N. E., 89e:65109**

Shen, Jin Ren Stability of weighted six-point schemes. (Chinese. English summary) **89i:65103**

Shkel′, V. A. *see* **Abrashin, V. N., 89e:65105**

Sukhinov, A. I. *see* **Nikolaev, I. A., 89c:65114**

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Tadmor, Eitan *see* **Goldberg, Moshe**, (**89j:35007**)

Thomée, Vidar *see* **Bramble, James H.; et al., 89i:65101**

Tobiska, L. *see* **Koeppe, G.; et al., 89c:65113**

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Wheeler, Mary Fanett *see* **Weiser, Alan, 89m:65094**

Xu, Yue Sheng (*with* Huang, You Qian) A semidiscrete correction method for the first boundary value problem of a semilinear elliptic equation. (Chinese. English summary) **89i:65105**

Yang, Dan Ping Stability and convergence of discrete operator numerical methods for nonlinear parabolic equations. (Chinese. English summary) **89g:65133**

Ying, Long An Convergence study for viscous splitting in bounded domains. **89h:65163**

Yu, Xi Jun Error estimates for semidiscrete Galerkin method solutions to time-dependent second-order hyperbolic equations. (Chinese. English summary) **89j:65066**

Zlotnik, A. A. The rate of convergence in $W_{2,h}^1$ of variational-difference schemes for elliptic equations. (Russian) **89a:65153**

Items with secondary classifications in 65N10

Asadzadeh, Mohammad L_2-error estimates for the discrete ordinates method for three-dimensional neutron transport. **89k:82111**

Belbas, S. A. (*with* Mayergoyz, I. D.) Applications of fixed-point methods to discrete variational and quasivariational inequalities. **89a:49008**

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Dairbaeva, G. *see* **Smagulov, Sh., 89i:76077**

Dee, Dick P. *see* **Cohn, Stephen E., 89i:93012**

Fel′dman, I. A. *see* **Bradler, I., 89g:65098**

Finogenov, S. A. (*with* Kuznetsov, Yuriĭ Alekseevich) Two-stage fictitious components method for solving the Dirichlet boundary value problem. **89k:65119**

Guo, Ben Yu *see* **Ma, He Ping, 89k:65145**

Hicks, D. *see* **Kuttler, Kenneth, 89b:35157**

Kavokin, A. A. *see* **Besinbaev, S.; et al.**, (**89a:00016**)

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Kuznetsov, Yuriĭ Alekseevich *see* **Finogenov, S. A., 89k:65119**

Luk′yanov, A. T. *see* **Besinbaev, S.; et al.**, (**89a:00016**)

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Mandel, Jan (*with* Nečas, Jindřich) Convergence of finite elements for transonic potential flows. **89a:65170**

— *see also* **Kočvara, Michal, 89b:65268**

Markowich, P. A. (*with* Schmeiser, C.; Selberherr, S.) Numerical methods in semiconductor device simulation. **89h:78014**

Mayergoyz, I. D. *see* **Belbas, S. A., 89a:49008**

Nečas, Jindřich *see* **Mandel, Jan, 89a:65170**

Schmeiser, C. *see* **Markowich, P. A.; et al., 89h:78014**

Selberherr, S. *see* **Markowich, P. A.; et al., 89h:78014**

Semerdzhieva, R. I. A difference method for numerical solution of degenerate hyperbolic equations. **89h:65168**

Shishkin, G. I. Grid approximation of singularly perturbed parabolic equations with internal layers. **89k:65109**

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Yu, De Jian The convergence of discrete-direction approximations for neutron transport problems with continuous energy. **89b:82136**

65N15 Error bounds

Andreev, V. B. On the analysis of a difference scheme for the Laplace equation in a singularly perturbed domain. (Russian) **89b:65245**

Berikelashvili, G. K. (*with* Sulkhanishvili, G. I.) The order of convergence of difference schemes for elliptic systems with solutions in Sobolev spaces. (Russian) **89a:65154**

Bobileva, O. N. *see* **Rvachëv, V. L., 89h:65164**

Gärtel, Ute ★ Fehlerabschätzungen für vektorwertige Randwertaufgaben zweiter Ordnung, insbesondere für Probleme aus der chemischen Reaktions-Diffusions-Theorie. (German) [Error estimates for vector-valued boundary value problems of second order, particularly for problems of chemical reaction-diffusion theory] **89k:65122**

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Kosler, R. Fehlerabschätzungen für die Methode der finiten Elemente bei nichtmonotonen elliptischen Problemen mit starken Nichtlinearitäten. [Error estimates for the finite element method in nonmonotone elliptic problems with strong nonlinearities] **89k:65123**
Miller, A. D. *see* **Kelly, D. W.; et al., 89b:65246** *and* **89f:65111**
Mills, R. J. *see* **Kelly, D. W.; et al., 89b:65246** *and* **89f:65111**
Monk, P. B. An iterative finite element method for approximating the biharmonic equation. **89m:65095**
Nochetto, Ricardo H. (*with* Verdi, Claudio) An efficient linear scheme to approximate parabolic free boundary problems: error estimates and implementation. **89k:65124**
Reizes, J. A. *see* **Kelly, D. W.; et al., 89b:65246** *and* **89f:65111**
Rvachëv, V. L. (*with* Bobileva, O. N.) Approximation properties of structures of difference type for the Neumann boundary value problem. **89h:65164**
Sulkhanishvili, G. I. *see* **Berikelashvili, G. K., 89a:65154**
Verdi, Claudio (*with* Visintin, A.) Error estimates for a semi-explicit numerical scheme for Stefan-type problems. **89a:65155**
— *see also* **Nochetto, Ricardo H., 89k:65124**
Visintin, A. *see* **Verdi, Claudio, 89a:65155**

Items with secondary classifications in 65N15

Durán, R. (*with* Nochetto, Ricardo H.; Wang, Jun Ping) Sharp maximum norm error estimates for finite element approximations of the Stokes problem in 2-D. **89b:65261**
— A note on the convergence of linear finite elements. **89g:65141**
Goodsell, G. *see* **Whiteman, J. R., 89h:65195**
Isles, J. D. *see* **Mills, R. J.; et al., 89e:65131**
Kelly, D. W. *see* **Mills, R. J.; et al., 89e:65131**
Liu, Y. C. *see* **Zienkiewicz, O. C.; et al.,** (**89c:65004**)
Miller, A. D. *see* **Mills, R. J.; et al., 89e:65131**
Mills, R. J. (*with* Kelly, D. W.; Reizes, J. A.; Isles, J. D.; Miller, A. D.) Exact error estimates and adaptive mesh transformation control for elliptic boundary value problems in $\mathbf{R}^1$. **89e:65131**
Morawiec, Grażyna Approximation of the Dirichlet problem by a nonuniform grid on the boundary. (Polish. English summary) **89f:65103**
Morgan, Kenneth *see* **Zienkiewicz, O. C.; et al.,** (**89c:65004**)
Nochetto, Ricardo H. *see* **Durán, R.; et al., 89b:65261**
Peraire, J. *see* **Zienkiewicz, O. C.; et al.,** (**89c:65004**)
Perthame, Benoît (*with* Sanders, Richard) The Neumann problem for nonlinear second order singular perturbation problems. **89d:35012**
Pietra, Paola (*with* Verdi, Claudio) On the convergence of the approximate free boundary for the parabolic obstacle problem. (Italian summary) **89h:35355**
Reizes, J. A. *see* **Mills, R. J.; et al., 89e:65131**
Sanders, Richard *see* **Perthame, Benoît, 89d:35012**
Siganevich, G. L. The best error estimate for linear interpolation on a triangle of functions in $W_2^2(T)$. **89h:65022**
Verdi, Claudio *see* **Pietra, Paola, 89h:35355**
Wang, Jun Ping *see* **Durán, R.; et al., 89b:65261**
Whiteman, J. R. (*with* Goodsell, G.) Superconvergent recovery for stresses from finite element approximations on subdomains for planar problems of linear elasticity. **89h:65195**
Zhang, Nai Ying (*with* Zhou, Yi Shao) Some maximum norm error estimates, without a factor $|\log h|$, for semidiscrete piecewise linear finite element approximations for parabolic equations. (Chinese. English summary) **89i:65126**
Zhou, Yi Shao *see* **Zhang, Nai Ying, 89i:65126**
Zhu, J. Z. *see* **Zienkiewicz, O. C.; et al.,** (**89c:65004**)
Zienkiewicz, O. C. (*with* Zhu, J. Z.; Liu, Y. C.; Morgan, Kenneth; Peraire, J.) Error estimates and adaptivity from elasticity to high speed compressible flow. (*see* **89c:65004**)
Zlotnik, A. A. The rate of convergence in $W^1_{2,h}$ of variational-difference schemes for elliptic equations. (Russian) **89a:65153**

65N20 Solution of difference equations [see also 65F10]

Bank, R. (*with* Dupont, Todd F.; Yserentant, Harry) The hierarchical basis multigrid method. **89b:65247**
Belyĭ, M. V. (*with* Bulgakov, V. E.; Zolotov, A. B.) The semi-iterative multigrid method and its program realization for solving three-dimensional boundary value problems. (Russian) **89a:65156**
Bulgakov, V. E. *see* **Belyĭ, M. V.; et al., 89a:65156**
Chen, Pei Xian Convergence of SIP. **89e:65111**
Chen, Su-Huan (*with* Pan, H. H.) Guyan reduction. **89d:65094**
Chetverushkin, B. N. *see* **Klevtsur, S. V.; et al., 89h:65166**
Decker, Naomi H. The Fourier analysis of a multigrid preconditioner. **89i:65106**
Din′ Kuang Tkhaĭ *see* **Listopad, G. I.; et al., 89b:65252**
Drozdov, V. V. *see* **Galkin, S. A., 89k:65125**
Dupont, Todd F. *see* **Bank, R.; et al., 89b:65247**
Galkin, S. A. (*with* Drozdov, V. V.) An iterative method for solving an elliptic problem with a free boundary. **89k:65125**
Godoy, Luis A. *see* **Luccioni, Bibiana M., 89d:65095**
Gol′din, V. Ya. (*with* Kolpakov, A. V.) Combined methods for solving a multidimensional stationary system of quasidiffusion equations. (Russian) **89b:65248**
Harley, P. J. *see* **Pickering, W. M., 89h:65167**
Hoppe, Ronald H. W. (*with* Kornhuber, Ralf) Multigrid methods for the two-phase Stefan problem. **89h:65165**
Il′in, V. P. (*with* Kositsyna, L. K.) ★ О скорости сходимости итераций явного метода Булеева. (Russian) [The rate of convergence of iterations of the explicit Buleev method] **89f:65112**
— (*with* Sander, S. A.) A diagonal connection shift method for solving five-point network equations. **89g:65134**
Jamieson, S. M. (*with* Sloan, D. M.) A Petrov-Galerkin method and boundary approximations for hyperbolic initial boundary-value problems. **89e:65112**
Kang, Li Shan Parallel algorithms and domain decomposition. **89f:65113**
— *see also* **Xiao, You En, 89k:65129**
Khalil, Mohammed (*with* Rigal, Alain) Convergence des méthodes SOR à paramètre variable. (English summary) [On the convergence of variable parameter point SOR methods] **89b:65249**
Klevtsur, S. V. (*with* Latyshev, K. S.; Chetverushkin, B. N.) A cyclic variant of the α-β-iterative algorithm. **89h:65166**
Kolpakov, A. V. *see* **Gol′din, V. Ya., 89b:65248**
Kornhuber, Ralf *see* **Hoppe, Ronald H. W., 89h:65165**
Kositsyna, L. K. *see* **Il′in, V. P., 89f:65112**
Kucherov, A. B. (*with* Nikolaev, E. S.) Direct methods with partial elimination of unknowns for solving difference elliptic equations. (Russian) **89b:65250**
Kuo, C.-C. Jay (*with* Levy, Bernard C.; Musicus, Bruce R.) A local relaxation method for solving elliptic PDEs on mesh-connected arrays. **89b:65251**
— (*with* Levy, Bernard C.) A two-level four-color SOR method. **89k:65126**
Kuznetsov, Yuriĭ Alekseevich (*with* Trufanov, O. D.) ★ Двухступенчатый метод фиктивных компонент для решения волнового уравнения Гельмгольца. (Russian) [The two-step method of fictitious components for solving the Helmholtz wave equation] **89a:65157**
— ★ Новые алгоритмы приближенной реализации неявных разностных схем. (Russian) [New algorithms for the approximate realization of implicit difference schemes] **89f:65114**
Latyshev, K. S. *see* **Klevtsur, S. V.; et al., 89h:65166**
Levy, Bernard C. *see* **Kuo, C.-C. Jay; et al., 89b:65251** *and* **89k:65126**
Liem, Chin Bo *see* **Lũ, Tao; et al., 89a:65158**
Listopad, G. I. (*with* Monastyrnyĭ, P. I.; Din′ Kuang Tkhaĭ) On the theory of difference shooting methods for difference boundary value problems. (Russian. English summary) **89b:65252**
Lũ, Tao (*with* Shih, Tsi Min; Liem, Chin Bo) ★ Parallel algorithms for solving partial differential equations. **89a:65158**
Luccioni, Bibiana M. (*with* Godoy, Luis A.) Boundary conditions in the finite difference method with irregular meshes. (Spanish. English summary) **89d:65095**
Matsokin, A. M. ★ Решение сеточных уравнений на нерегулярных сетках. (Russian) [Solution of difference equations on irregular grids] **89k:65127**
Mittelmann, H. D. Multi-grid continuation and spurious solutions for nonlinear boundary value problems. **89i:65107**
Monastyrnyĭ, P. I. *see* **Listopad, G. I.; et al., 89b:65252**
Musicus, Bruce R. *see* **Kuo, C.-C. Jay; et al., 89b:65251**
Nikolaev, E. S. *see* **Kucherov, A. B., 89b:65250**
Ong, J. H. An algorithm for frontwidth reduction. **89a:65159**
Pan, H. H. *see* **Chen, Su-Huan, 89d:65094**
Pao, C. V. Numerical solutions for some coupled systems of nonlinear boundary value problems. **89f:65115**
Parter, Seymour V. Remarks on multigrid convergence theorems. **89a:65160**
— Estimates for multigrid methods based on red-black Gauss-Seidel smoothings. **89e:65113**
Petrova, S. I. *see* **Vassilevski, P. S., 89j:65067**
Pickering, W. M. (*with* Harley, P. J.) Poisson's equation, hexagonal grids and FFT methods: periodic boundary conditions. **89h:65167**
Prakhya, K. V. G. Some conjugate gradient methods for symmetric and nonsymmetric systems. **89d:65096**
Rigal, Alain *see* **Khalil, Mohammed, 89b:65249**
Rodrigue, Garry (*with* Varga, Richard) Convergence rate estimates for iterative solutions of the biharmonic equation. **89k:65128**
Rüde, U. On the accurate computation of singular solutions of Laplace's and Poisson's equation. **89i:65108**
Sander, S. A. A problem of Zolotarev-Chebyshev and the partial solution of systems of difference elliptic equations. (Russian) **89g:65135**
— *see also* **Il′in, V. P., 89g:65134**
Schumann, Ulrich (*with* Sweet, Roland A.) Fast Fourier transforms for direct solution of Poisson's equation with staggered boundary conditions. **89b:65253**
Semerdzhieva, R. I. A difference method for numerical solution of degenerate hyperbolic equations. **89h:65168**
Shih, Tsi Min *see* **Lũ, Tao; et al., 89a:65158**
Sloan, D. M. *see* **Jamieson, S. M., 89e:65112**
Spekreijse, Stefan ★ Multigrid solution of the steady Euler equations. **89i:65109**
Swarztrauber, Paul N. Approximate cyclic reduction for solving Poisson's equation. **89b:65254**
Sweet, Roland A. A parallel and vector variant of the cyclic reduction algorithm. **89c:65116**
— *see also* **Schumann, Ulrich, 89b:65253**
Toro, José R. Finite-element study of the existence of solutions of a problem of boundary-layer type. (Spanish. English summary) **89e:65114**
Trufanov, O. D. *see* **Kuznetsov, Yuriĭ Alekseevich, 89a:65157**
Varga, Richard *see* **Rodrigue, Garry, 89k:65128**
Vassilevski, P. S. (*with* Petrova, S. I.) A note on construction of preconditioners in solving 3-D elliptic problems by substructuring. **89j:65067**
Xiao, You En (*with* Kang, Li Shan) The convergence rate of the Schwarz algorithms. (Chinese. English summary) **89k:65129**
Yserentant, Harry *see* **Bank, R.; et al., 89b:65247**
Zolotov, A. B. *see* **Belyĭ, M. V.; et al., 89a:65156**

Items with secondary classifications in 65N20

Beauwens, Robert (*with* Bouzid, Ben Mustapha) Existence and conditioning properties of sparse approximate block factorizations. **89j:65033**
Belbas, S. A. (*with* Mayergoyz, I. D.) Applications of fixed-point methods to discrete variational and quasivariational inequalities. **89a:49008**
Boon, C. *see* **van der Houwen, P. J.; et al., 89b:65109**
Bouzid, Ben Mustapha *see* **Beauwens, Robert, 89j:65033**
Bramble, James H. (*with* Pasciak, Joseph E.; Sammon, P. H.; Thomée, Vidar) Incomplete iterations in multistep backward difference methods for parabolic problems with smooth and nonsmooth data. **89i:65101**
Chin, R. C. Y. (*with* Manteuffel, Thomas A.) An analysis of block successive overrelaxation for a class of matrices with complex spectra. **89e:65037**

Douglas, Craig C. (*with* Ma, Shing C.; Miranker, Willard L.) Generating parallel algorithms through multigrid and aggregation/disaggregation techniques. **89b:65326**
Gallopoulos, E. (*with* Saad, Y.) A parallel block cyclic reduction algorithm for the fast solution of elliptic equations. **89b:65329**
Gladkiĭ, V. S. (*with* Ovsyannikova, L. B.) Probabilistic numerical methods for linear algebra and mathematical physics. (Russian) **89i:65035**
Goldstein, Charles I. (*with* Parter, Seymour V.) On the norm equivalence of singularly perturbed elliptic difference operators. **89h:65061**
Grandek, K. Accelerated iterative methods for elliptic partial differential equations. **89b:65077**
van der Houwen, P. J. (*with* Boon, C.; Wubs, F. W.) Analysis of smoothing matrices for the preconditioning of elliptic difference equations. (German and Russian summaries) **89b:65109**
Hussaini, M. Y. *see* **Phillips, T. N.; et al., 89h:65063**
Il'in, V. P. Incomplete factorization methods. **89g:65032**
Ma, Shing C. *see* **Douglas, Craig C.; et al., 89b:65326**
Mandel, Jan Algebraic study of multigrid methods for symmetric, definite problems. **89d:65036**
Manteuffel, Thomas A. *see* **Chin, R. C. Y., 89e:65037**
Mayergoyz, I. D. *see* **Belbas, S. A., 89a:49008**
Maz'ya, V. G. (*with* Slutskiĭ, A. S.) Averaging of difference equations with rapidly oscillating coefficients. (Russian) **89f:39001**
Miranker, Willard L. *see* **Douglas, Craig C.; et al., 89b:65326**
Ortega, James M. *see* **Poole, Eugene L., 89b:65084**
Ovsyannikova, L. B. *see* **Gladkiĭ, V. S., 89i:65035**
Parter, Seymour V. *see* **Goldstein, Charles I., 89h:65061**
Pasciak, Joseph E. *see* **Bramble, James H.; et al., 89i:65101**
Phillips, T. N. (*with* Zang, T. A.; Hussaini, M. Y.) Preconditioners for the spectral multigrid method. **89h:65063**
Poole, Eugene L. (*with* Ortega, James M.) Multicolor ICCG methods for vector computers. **89b:65084**
Reusken, A. Convergence of the multigrid full approximation scheme for a class of elliptic mildly nonlinear boundary value problems. **89f:65130**
Saad, Y. *see* **Gallopoulos, E., 89b:65329**
Sammon, P. H. *see* **Bramble, James H.; et al., 89i:65101**
Saylor, Paul E. *see* **Smolarski, Dennis C., 89b:65085**
Slutskiĭ, A. S. *see* **Maz'ya, V. G., 89f:39001**
Smolarski, Dennis C. (*with* Saylor, Paul E.) An optimum iterative method for solving any linear systems with a square matrix. **89b:65085**
Thomée, Vidar *see* **Bramble, James H.; et al., 89i:65101**
Vabishchevich, P. N. ★ Численные методы решения задач со свободной границей. (Russian) [Numerical methods for solving free boundary problems] **89h:65213**
Vassilevski, P. S. An optimal stabilization of the marching algorithm. **89i:65034**
Verfürth, R. Multilevel algorithms for mixed problems. II. Treatment of the mini-element. **89a:65175**
de Vries, H. B. The multigrid method in the solution of time-dependent nonlinear partial differential equations. (German and Russian summaries) **89a:65142**
Wubs, F. W. *see* **van der Houwen, P. J.; et al., 89b:65109**
Zang, T. A. *see* **Phillips, T. N.; et al., 89h:65063**
Zhan, Chong Xi A block method for solving linear equations from finite element methods. (Chinese. English summary) **89b:65282**

65N25 Eigenvalue problems

Bini, D. (*with* Fontani, A.) On the evaluation of the eigenvalues of the finite differences Laplacian over a hexagon. **89h:65169**
Bondarenko, L. N. *see* **Gavrilyuk, I. P.; et al., 89b:65255**
Fontani, A. *see* **Bini, D., 89h:65169**
Gavrilyuk, I. P. (*with* Zhuk, P. F.; Bondarenko, L. N.) A property of the finite-difference operator of the second derivative. (Russian) **89b:65255**
Mittelmann, H. D. A pseudo-arclength continuation method for nonlinear eigenvalue problems. **89a:65161**
Ovchinnikov, E. È. ★ Оценки скорости сходимости одного проекционного алгоритма в проблеме собственных значений оператора переноса-диффузии. (Russian) [Estimates for the rate of convergence of a projection algorithm in a problem of the eigenvalues of a transport-diffusion operator] **89e:65115**
Prikazchikov, V. G. (*with* Semchuk, A. R.) Error estimate for the calculation of the eigenfunction of a spectral problem in a cylindrical coordinate system. (Russian) **89d:65097**
Reddy, B. D. Variational and numerical aspects of eigenvalue problems in the stability of fluids. (*see* **89c:65004**)
Reichel, Lothar Boundary collocation in Fejér points for computing eigenvalues and eigenfunctions of the Laplacian. **89m:65096**
Semchuk, A. R. *see* **Prikazchikov, V. G., 89d:65097**
Still, G. Computable bounds for eigenvalues and eigenfunctions of elliptic differential operators. **89k:65130**
Zhuk, P. F. *see* **Gavrilyuk, I. P.; et al., 89b:65255**

Items with secondary classifications in 65N25

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Chien, Cheng Sheng Multiple bifurcations on 3D eigenvalue problems. **89g:58038**
Dittmar, B. Zur Berechnung Stekloffscher Eigenwerte. (English summary) [On the computation of Steklov eigenvalues] **89h:35080**
Eydeland, Alexander (*with* Spruck, Joel) The inverse power method for semilinear elliptic equations. **89k:35077**
Katz, I. Norman *see* **Ying, Xingren, 89g:73034**
Kuznetsov, Yuriĭ Alekseevich *see* **Bespalov, A. N., 89a:78010**
Liem, Chin Bo *see* **Lü, Tao; et al., 89i:65098**
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Ng, K. Y. K. (*with* Sancho, N. G. F.) Dynamic programming, reduction of dimensionality and eigenvalue problems. **89k:90170**
Osborn, J. E. *see* **Babuška, I., 89k:65132**
Sancho, N. G. F. *see* **Ng, K. Y. K., 89k:90170**
Shih, Tsi Min *see* **Lü, Tao; et al., 89i:65098**
Spruck, Joel *see* **Eydeland, Alexander, 89k:35077**
Wolniewicz, L. A new numerical procedure for the construction of orthonormal hyperspherical functions. **89j:81283**
Ying, Xingren (*with* Katz, I. Norman) Computation of eigenvalues and eigenfunctions for the stress singularity in a composite wedge. **89g:73034**

65N30 Finite elements, Rayleigh-Ritz and Galerkin methods, finite methods

Adjerid, Slimane (*with* Flaherty, Joseph E.) Second-order finite element approximations and a posteriori error estimation for two-dimensional parabolic systems. **89i:65110**
— (*with* Flaherty, Joseph E.) A local refinement finite-element method for two-dimensional parabolic systems. **89g:65136**
Agapov, V. K. (*with* Kuznetsov, Yuriĭ Alekseevich) On some versions of the domain decomposition method. **89h:65170**
Aguilera, N. E. (*with* Caffarelli, Luis A.) Regularity results for discrete solutions of second order elliptic problems in the finite element method. **89h:65171**
Alarcón, E. *see* **Reverter, A.; et al., (89f:65003)**
Al-Kharafi, A. A. (*with* Evans, David J.) A finite element approach to nonlinear transient problems. **89f:65116**
Apanovich, V. N. A condition for external approximations by finite elements of generalized solutions of boundary value problems in mechanics. (Russian) **89b:65256**
Appert, K. (*with* Succi, S.; Vaclavik, J.; Villard, L.) Finite elements applied to plasma waves. **89f:65117**
Aziz, A. K. (*with* Stephens, A. B.; Suri, Manil) Numerical methods for reaction-diffusion problems with nondifferentiable kinetics. **89e:65116**
Baart, M. L. (*with* McLeod, R. J. Y.) Quadratic transformations of triangular finite elements in two dimensions. **89h:65172**
Babuška, I. Recent progress in the *p* and *h-p* versions of the finite element method. **89g:65137**
— (*with* Suri, Manil) The *p*-version of the finite element method for constraint boundary conditions. **89k:65131**
— (*with* Guo, Ben Qi) The *h-p* version of the finite element method for domains with curved boundaries. **89i:65111**
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— *see also* **Jensen, Soren S., 89m:65101**
Baehmann, P. L. (*with* Shephard, M. S.; Flaherty, Joseph E.) Adaptive analysis for automated finite element modeling. (*see* **89c:65004**)
Baines, M. J. Moving element methods for time dependent problems. (*see* **89j:76004**)
Balasundaram, S. (*with* Bhattacharyya, Pijush Kanti) A mixed finite-element method for fourth-order elliptic problems with variable coefficients. **89i:65112**
Barrett, John W. (*with* Elliott, Charles M.) Total flux estimates for a finite-element approximation of parabolic equations. **89h:65173**
Bell, J. B. *see* **Szymczak, William G.; et al., 89k:65143**
Berger, A. E. *see* **Szymczak, William G.; et al., 89k:65143**
Bernadou, Michel (*with* Ducatel, Y.; Trouvé, Pascal) Approximation of a circular cylindrical shell by Clough-Johnson flat plate finite elements. **89b:65257**
Bernardi, Christine (*with* Maday, Yvon; Métivet, Brigitte) Spectral approximation of the periodic-nonperiodic Navier-Stokes equations. **89f:65118**
Bhattacharyya, Pijush Kanti (*with* Gopalsamy, S.) An equilibrium finite element method for fourth order elliptic equations with variable coefficients. **89h:65174**
— *see also* **Balasundaram, S., 89i:65112**
Blum, Heribert Extrapolation techniques in the numerical treatment of corner and crack singularities. (*see* **89c:65004**)
— (*with* Rannacher, R.) Extrapolation techniques for reducing the pollution effect of reentrant corners in the finite element method. **89e:65117**
Bogomolny, Alexander A method of approximating stiffness matrices for some pseudodifferential equations. **89b:65258**
Book, D. L. *see* **Löhner, Rainald; et al., (Not in MR)**
Boris, Jay P. *see* **Löhner, Rainald; et al., (Not in MR)**
Bourlard, Maryse Problème de Dirichlet pour le bilaplacien dans un polygone: résolution par éléments finis frontières raffinés. (English summary) [The Dirichlet problem for the biharmonic equation on a polygonal domain: an adapted boundary element method] **89b:65259**
Braess, D. (*with* Peisker, P.) On the numerical solution of the biharmonic equation and the role of squaring matrices for preconditioning. **89h:65175**
Bramble, James H. (*with* Pasciak, Joseph E.; Xu, Jin Chao) The analysis of multigrid algorithms for nonsymmetric and indefinite elliptic problems. **89b:65260**
— (*with* Pasciak, Joseph E.; Schatz, Alfred H.) The construction of preconditioners for elliptic problems by substructuring. III. **89e:65118**
— (*with* Pasciak, Joseph E.) A preconditioning technique for indefinite systems resulting from mixed approximations of elliptic problems. **89m:65097a**
— (*with* Pasciak, Joseph E.) Corrigenda: "A preconditioning technique for indefinite systems resulting from mixed approximations of elliptic problems". **89m:65097b**
— (*with* Pasciak, Joseph E.; Schatz, Alfred H.) The construction of preconditioners for elliptic problems by substructuring. IV. **89m:65098**
Brenner, Susanne C. An optimal-order multigrid method for P1 nonconforming finite elements. **89f:65119**
Brezzi, F. New applications of mixed finite element methods. **89d:65098**

— A survey of mixed finite element methods. **89m:65099**

— (*with* Douglas, Jim, Jr.) Stabilized mixed methods for the Stokes problem. **89g:65138**

Bui, T. D. *see* **Li, Zi-Cai, 89b:65271** *and* **89h:65184**

Caffarelli, Luis A. *see* **Aguilera, N. E., 89h:65171**

Cahouet, J. (*with* Chabard, J.-P.) An efficient 3D finite element solver for a generalized Stokes problem. (*see* **89c:65004**)

Cai, Wei The limit problems for Zienkiewicz triangular elements. (Chinese. English summary) **89a:65162**

Calderón, Alberto Pedro *see* **Santos, Juan Enrique; et al., 89b:65277**

Canuto, Claudio Spectral methods and a maximum principle. **89d:65099**

Carey, G. F. (*with* Jiang, B.-N.) Least-squares finite element method and preconditioned conjugate gradient solution. **89a:65163**

— *see also* **Jiang, B.-N., 89b:65267**

Cecot, W. (*with* Orkisz, J.) On coupling of the boundary element and R-function methods. **89k:65133**

Ćelić, Momir V. Multilevel iterative methods for solving singular finite element equations. (Serbo-Croatian. English summary) **89a:65164**

Chabard, J.-P. *see* **Cahouet, J., (89c:65004)**

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Costa, Jesus Adjalma, Jr. Plate vibrations using BEM. **89a:65166**

Costabel, M. Symmetric methods for the coupling of finite elements and boundary elements (invited contribution). **89j:65068**

— Principles of boundary element methods. **89a:65167**

— A symmetric method for the coupling of finite elements and boundary elements. (*see* **89c:65004**)

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Crouzeix, Michel (*with* Falk, Richard S.) Nonconforming finite elements for the Stokes problem. **89i:65113**

Cruse, T. A. ★ Boundary element analysis in computational fracture mechanics. **89h:65176**

Dautov, R. Z. A variant of the finite element method for boundary value problems in punctured domains with periodic structure. (Russian) **89c:65118**

Davies, A. R. *see* **Phillips, T. N., 89h:65187**

Deb, Anindya (*with* Wang, Hui-Ching) A point concerning quadratic elements in two-dimensional boundary element methods. (Not in MR)

Delfour, M. C. (*with* Payre, G.; Zolésio, J.-P.) Approximation of nonlinear problems associated with radiating bodies in space. **89g:65139**

Diez, F. *see* **Gavete, L.; et al., (89c:65004)**

Donéa, J. (*with* Quartapelle, L.; Selmin, V.) An analysis of time discretization in the finite element solution of hyperbolic problems. **89g:65140**

Douglas, Jim, Jr. (*with* Wang, Jun Ping) An absolutely stabilized finite element method for the Stokes problem. **89j:65069**

— *see also* **Santos, Juan Enrique; et al., 89b:65277** *and* **Brezzi, F., 89g:65138**

Dryja, M. An additive Schwarz algorithm for two- and three-dimensional finite element elliptic problems. (*see* **89j:65010**)

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Ducatel, Y. *see* **Bernadou, Michel; et al., 89b:65257**

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— Error analysis in L^p, $1 \leq p \leq \infty$, for mixed finite element methods for linear and quasi-linear elliptic problems. (French summary) **89i:65114**

— A note on the convergence of linear finite elements. **89g:65141**

Dwyer, Harry A. *see* **Matsuno, Kenichi, 89j:65075**

E, Wei Nan (*with* Huang, Hong Ci; Han, Wei Min) Error analysis of local refinements of polygonal domains. **89e:65119**

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Elliott, Charles M. *see* **Barrett, John W., 89h:65173**

Elschner, Johannes On suboptimal convergence of finite element methods. **89b:65262**

Enăchescu, Denis M. Monte Carlo techniques in finite element method for elliptic equations. **89i:65115**

Eriksson, Kenneth (*with* Johnson, Claes) An adaptive finite element method for linear elliptic problems. **89c:65119**

Evans, David J. *see* **Al-Kharafi, A. A., 89f:65116**

Falk, Richard S. *see* **Crouzeix, Michel, 89i:65113**

Feistauer, Miloslav (*with* Ženíšek, Alexander) Compactness method in the finite element theory of nonlinear elliptic problems. **89b:65263**

Filippovich, A. P. Analysis of mixed schemes of the finite element method in problems on the deformation of shallow shells. (Russian) **89f:65121**

Flaherty, Joseph E. *see* **Adjerid, Slimane, 89g:65136; 89i:65110** *and* **Baehmann, P. L.; et al., (89c:65004)**

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— *see also* **Hughes, Thomas J. R., 89f:65124**

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Gavete, L. (*with* Michavila Pitarch, Francisco P.; Diez, F.; Whiteman, J. R.) Generalization of the mapping technique of Aalto to produce finite elements for treating singularities. (*see* **89c:65004**)

Geveci, Tunc On the application of mixed finite element methods to the wave equations. (French summary) **89i:65116**

Gonzalez, A. *see* **Reverter, A.; et al., (89f:65003)**

Goodsell, G. *see* **Whiteman, J. R., 89h:65195**

Gopalsamy, S. *see* **Bhattacharyya, Pijush Kanti, 89h:65174**

Grannell, J. J. On simplified hybrid methods for coupling of finite elements and boundary elements. **89j:65071**

Griffiths, D. V. *see* **Smith, I. M., 89d:65101**

Gruber, Ralf Finite elements in magnetohydrodynamics: ideal linear stability problem. **89b:65264**

Gui, Wen Zhuang Hierarchical elements, local mappings and the h-p version of the finite element method. I. **89h:65177**

— Hierarchical elements, local mappings and the h-p version of the finite element method. II. **89k:65134**

Guirguis, Georges H. A third-order boundary condition for the exterior Stokes problem in three dimensions. **89b:65265**

Gunzburger, Max D. (*with* Peterson, Janet S.) Finite-element methods for the streamfunction-vorticity equations: boundary-condition treatments and multiply connected domains. **89g:65142**

— *see also* **Du, Qiang; et al., 89j:65070** *and* **Chang, Qing Long, 89m:65100**

Guo, Ben Qi The h-p version of the finite element method for elliptic equations of order $2m$. **89j:65072**

— *see also* **Babuška, I., 89i:65111**

Guo, Shao Mu Approximate solutions to a class of boundary value problems for nonlinear elliptic equations. (Chinese. English summary) **89k:65135**

Han, Hou De (*with* Wu, Xiao Nan) Approximation of boundary condition at infinity and its application to boundary element methods. **89j:65073**

— The boundary finite element methods for Signorini problems. **89b:65266**

— Remarks on quasiconforming elements. (Chinese. English summary) **89i:65117**

Han, Wei Min *see* **E, Wei Nan; et al., 89e:65119**

Haslinger, J. (*with* Neittaanmäki, Pekka; Salmenjoki, K.) On optimal mesh design for FEM in unilateral boundary value problems. (*see* **89c:65004**)

Hennart, Jean Pierre (*with* Jaffre, Jérôme; Roberts, Jean Elizabeth) A constructive method for deriving finite elements of nodal type. **89g:65144**

— (*with* Mund, E. H.) On the h- and p-versions of the extrapolated Gordon's projector with applications to elliptic equations. **89g:65143**

Hlaváček, I. Domain optimization in axisymmetric elliptic boundary value problems by finite elements. (Russian and Czech summaries) **89f:65123**

Hong, Min Chun Galerkin methods for compressible miscible displacement in porous media. (Chinese. English summary) **89h:65178**

Hsiao, G. C. Boundary element methods for exterior problems in elasticity and fluid mechanics. (*see* **89c:65004**)

Huang, Hong Ci *see* **E, Wei Nan; et al., 89e:65119**

Huang, Yun Qing Higher order expansion and extrapolation of finite element solutions to eigenvalue problems. (Chinese. English summary) **89k:65136**

Hughes, Thomas J. R. (*with* Franca, Leopoldo P.) Some new classes of mixed finite element methods. **89f:65124**

— *see also* **Franca, Leopoldo P.; et al., 89f:65122**

İotova, Angelina Exact calculation of element matrices for a quadratic triangular finite element. (Bulgarian. English and Russian summaries) **89i:65118**

Ishihara, Kazuo Successive overrelaxation method with projection with finite element solutions applied to the Dirichlet problem of the nonlinear elliptic equation $\Delta u = bu^2$. (German summary) **89e:65120**

Jaffre, Jérôme *see* **Hennart, Jean Pierre; et al., 89g:65144**

Janik, Tadeusz J. The effect of quadrature errors on the finite element solution of some nonlinear elliptic problems. **89f:65125**

— The effect of numerical integration in finite element methods for solving quasilinear parabolic equations. **89h:65179**

Jensen, Soren S. (*with* Babuška, I.) Dimensional reduction for nonlinear boundary value problems. **89m:65101**

Jiang, B.-N. (*with* Carey, G. F.) Least-squares finite element approximation of nonlinear problems. **89b:65267**

— *see also* **Carey, G. F., 89a:65163**

Jiang, Song (*with* Li, Kai Tai) The coupling of finite element method and boundary element method for two-dimensional Helmholtz equation in an exterior domain. **89c:65120**

Johnson, Arthur R. *see* **Fried, Isaac, (89b:00029)**

Johnson, Claes *see* **Eriksson, Kenneth, 89c:65119**

Jovanović, B. Sur la méthode des domaines fictifs pour une équation elliptique quasilinéaire du quatrième ordre. [On the method of fictitious domains for a fourth-order quasilinear elliptic equation] **89j:65074**

Kagawa, Yukio *see* **Yamabuchi, Tatsuo, (Not in MR)**

Karageorghis, Andreas *see* **Phillips, T. N., 89m:65103**

Kieda, A. *see* **Yano, Hideo; et al., 89m:65106**

Kočvara, Michal (*with* Mandel, Jan) A multigrid method for three-dimensional elasticity and algebraic convergence estimates. **89b:65268**

Kohaupt, Ludwig Erratum: "Optimal L^∞-error estimates for piecewise linear finite elements in $\mathbf{R}^n$ for $1 \leq n \leq 3$" [Numer. Math. **50** (1987), no. 3, 353–362; MR 88i:65131]. **89d:65100**

Kónya, I. (*with* Rózsa, P.; Szabados, T.) Applications of orthogonal polynomials for improving the accuracy of the finite element method. **89c:65121**

Kosler, R. On the Galerkin approximation for small solutions of noncoercive quasilinear boundary value problems. (German and Russian summaries) **89b:65269**

Kratochvíl, Jiří (*with* Růžičková, Helena) Solutions of the transport-diffusion equation and the Navier-Stokes equations by the method of characteristics and the finite element method. (Czech) **89i:65119**

Kucherenko, È. I. Convergence of the Bogolyubov-Galerkin method for a boundary value problem of a nonlinear polyharmonic equation. **89h:65180**

Kuznetsov, Yuriĭ Alekseevich *see* **Agapov, V. K., 89h:65170**

Kwon, Yonghoon (*with* Milner, Fabio A.) L^∞-error estimates for mixed methods for

semilinear second-order elliptic equations. **89c:65122**
Langtangen, Hans Petter (*with* Tveito, Aslak) A numerical comparison of conjugate gradient-like methods. **89h:65181**
Layton, W. *see* **Du, Qiang; et al., 89j:65070**
Lazarov, R. D. (*with* Vassilevski, P. S.; Margenov, S. D.) Solving elliptic problems by the domain decomposition method using preconditioning matrices derived by multilevel splittings of the finite element matrix. **89b:65270**
Lehmann, Reinhard Computable error bounds in the finite-element method. **89h:65182**
— A computable finite element interpolation error bound in the uniform metric. **89k:65137**
Lei, Yan Song *see* **Xu, Chang Fa, 89j:65077** *and* **89k:65144**
Lenoir, Marc André (*with* Tounsi, A.) The localized finite element method and its application to the two-dimensional sea-keeping problem. **89k:65138**
Li, Guang Yu A primal hybrid finite element method for second-order parabolic problems. (Chinese. English summary) **89k:65139**
Li, Kai Tai *see* **Jiang, Song, 89c:65120**
Li, Li Kang Isoparametric finite element methods for nonlinear Dirichlet problem. **89c:65123**
— Conforming, nonconforming and hybrid elements. (Chinese. English summary) **89k:65140**
Li, Qian The finite element method for coupled second-order nonlinear problems. (Chinese) **89k:65141**
Li, Zi-Cai Nonconforming combined method of Ritz-Galerkin and finite element methods. **89h:65183**
— (*with* Bui, T. D.) A new kind of combinations between the Ritz-Galerkin and finite element methods for singularity problems. (German summary) **89b:65271**
— (*with* Bui, T. D.) Generalized hybrid-combined methods for the singularity problems of homogeneous elliptic equations. **89h:65184**
Lin, Qun (*with* Xie, Rui Feng) Error expansions for finite element approximations and their applications. **89b:65272**
Liu, Y. C. *see* **Zienkiewicz, O. C.; et al.**, (**89c:65004**)
Liu, Ying Xi (*with* Shi, Guang Yu; Tang, Li Min) On the finite element analysis of incompressible fluid flow incorporating equal order pressure and velocity interpolation. (Chinese. English summary) (Not in MR)
Löhner, Rainald (*with* Morgan, Kenneth; Vahdati, M.; Boris, Jay P.; Book, D. L.) FEM-FCT: combining unstructured grids with high resolution. (Not in MR)
Loula, Abimael F. D. *see* **Franca, Leopoldo P.; et al., 89f:65122**
Lube, G. Uniform in ε discretization error estimates for convection dominated convection-diffusion problems. (French summary) **89i:65120**
Maday, Yvon *see* **Bernardi, Christine; et al., 89f:65118**
Makarenko, E. N. Superconvergence of schemes of the finite element method for the Poisson equation on regular nets. (Russian) **89a:65169**
Mamatov, A. Z. Stability of the Galerkin method for a boundary value problem of parabolic type. (Russian) (*see* **89c:00022**)
Mandel, Jan (*with* Nečas, Jindřich) Convergence of finite elements for transonic potential flows. **89a:65170**
— *see also* **Kočvara, Michal, 89b:65268**
Margenov, S. D. *see* **Lazarov, R. D.; et al., 89b:65270**
Markowich, P. A. (*with* Zlámal, Miloš A.) Inverse-average-type finite element discretizations of selfadjoint second-order elliptic problems. **89a:65171**
Matsuno, Kenichi (*with* Dwyer, Harry A.) Adaptive methods for elliptic grid generation. **89j:65075**
McLeod, R. J. Y. *see* **Baart, M. L., 89h:65172**
Métivet, Brigitte *see* **Bernardi, Christine; et al., 89f:65118**
Michavila Pitarch, Francisco P. *see* **Gavete, L.; et al.**, (**89c:65004**)
Milner, Fabio A. *see* **Kwon, Yonghoon, 89c:65122**
Miranda, Isidoro *see* **Franca, Leopoldo P.; et al., 89f:65122**
Morgan, Kenneth *see* **Zienkiewicz, O. C.; et al.**, (**89c:65004**) *and* **Löhner, Rainald; et al.**, (Not in MR)
Mund, E. H. *see* **Hennart, Jean-Pierre, 89g:65143**
Nakao, Mitsuhiro T. Superconvergence of the gradient of Galerkin approximations for elliptic problems. **89a:65172**
Nakata, Mie (*with* Wheeler, Mary Fanett) Some superconvergence results for mixed finite element methods for linear parabolic problems. **89b:65273**
Nečas, Jindřich *see* **Mandel, Jan, 89a:65170**
Neittaanmäki, Pekka *see* **Haslinger, J.; et al.**, (**89c:65004**)
Nicolaides, R. A. *see* **Chiu, Chichia, 89c:65117**
Nishioka, Katsuhiro *see* **Yano, Hideo; et al., 89m:65106**
Nochetto, Ricardo H. (*with* Verdi, Claudio) Approximation of degenerate parabolic problems using numerical integration. **89m:65102**
— *see also* **Durán, R.; et al., 89b:65261**
Okamoto, Hisashi Applications of the Fourier transform to the boundary element method. **89h:65185**
Orkisz, J. *see* **Cecot, W., 89k:65133**
Osborn, J. E. *see* **Babuška, I., 89k:65132**
Ovchinnikov, E. È. ★ О построении базиса при решении методом Бубнова-Галеркина задачи на собственные значения для оператора переноса-диффузии. (Russian) [Construction of a basis for solving, by the Bubnov-Galerkin method, an eigenvalue problem for a transport-diffusion operator] **89b:65274**
Parés, Carlos Un traitement faible en éléments finis de la condition de glissement sur une paroi pour les équations de Navier-Stokes. (English summary) [A weak treatment of the slip boundary condition in a finite element approximation of Stokes and Navier-Stokes equations] **89h:65186**
Pasciak, Joseph E. *see* **Bramble, James H.; et al., 89b:65260; 89e:65118; 89m:65097a; 89m:65097b** *and* **89m:65098**
Payre, G. *see* **Delfour, M. C.; et al., 89g:65139**
Peisker, P. *see* **Braess, D., 89h:65175**
Peraire, J. *see* **Zienkiewicz, O. C.; et al.**, (**89c:65004**)
Peterson, Janet S. *see* **Gunzburger, Max D., 89g:65142**
Phillips, T. N. (*with* Davies, A. R.) On semi-infinite spectral elements for Poisson problems with re-entrant boundary singularities. **89h:65187**
— (*with* Karageorghis, Andreas) Efficient direct methods for solving the spectral collocation equations for Stokes flow in rectangularly decomposable domains. **89m:65103**
Pitkäranta, Juhani Analysis of some low-order finite element schemes for Mindlin-Reissner and Kirchhoff plates. **89f:65126**
Polizzotto, C. An energy approach to the boundary element method. I. Elastic solids. **89e:65121**
Potra, Teodor Regarding the convergence in the sense of Aubin-Nitsche in the problem of finite element type interpolation. **89b:65275**
Quartapelle, L. *see* **Donéa, J.; et al., 89g:65140**
Rannacher, R. (*with* Wendland, W.) Pointwise convergence of some boundary element methods. II. (French summary) **89e:65122**
— *see also* **Blum, Heribert, 89e:65117**
Reddy, B. D. Convergence of mixed finite element approximations for the shallow arch problem. **89h:65188**
Reverter, A. (*with* Gonzalez, A.; Alarcón, E.) Indicators and estimators in p-adaptive boundary elements. (*see* **89f:65003**)
Rizzo, Frank J. The finite and boundary element methods: one view of their foundations. **89c:65124**
Roberts, Jean Elizabeth *see* **Hennart, Jean Pierre; et al., 89g:65144**
Robey, T. H. (*with* Schreyer, H. L.) The null space and nonconventional basis functions in the mixed finite element method. **89b:65276**
Rózsa, P. *see* **Kónya, I.; et al., 89c:65121**
Ruas, Vitoriano A quadratic finite element method for solving biharmonic problems in $\mathbf{R}^n$. **89a:65173**
Ruotsalainen, K. On the boundary element method with mesh refinement on curves with corners. **89a:65174**
— (*with* Wendland, W.) On the boundary element method for some nonlinear boundary value problems. **89h:65189**
Růžičková, Helena *see* **Kratochvíl, Jiří, 89i:65119**
Salmenjoki, K. *see* **Haslinger, J.; et al.**, (**89c:65004**)
Santos, Juan Enrique (*with* Douglas, Jim, Jr.; Calderón, Alberto Pedro) Finite element methods for a composite model in elastodynamics. **89b:65277**
Schatz, Alfred H. *see* **Bramble, James H.; et al., 89e:65118** *and* **89m:65098**
Schiff, B. Finite element eigenvalues for the Laplacian over an L-shaped domain. **89g:65145**
Schmidt, Gunther (*with* Strese, Hartmut) The convergence of a direct BEM for the plane mixed boundary value problem of the Laplacian. **89i:65121**
Schreyer, H. L. *see* **Robey, T. H., 89b:65276**
Schwarz, H.-R. ★ Finite element methods. **89h:65190**
Selmin, V. *see* **Donéa, J.; et al., 89g:65140**
Shaĭdurov, V. V. A multigrid iterative algorithm for the mixed finite element method. **89e:65123**
Shephard, M. S. *see* **Baehmann, P. L.; et al.**, (**89c:65004**)
Shi, Guang Yu *see* **Liu, Ying Xi; et al.**, (Not in MR)
Shi, Zhong Ci On the 9-parameter quasi-conforming plate element. (Chinese. English summary) **89k:65142**
Silvester, D. J. Optimising finite element matrix calculations using the general technique of element vectorisation. **89c:65125**
Smith, I. M. (*with* Griffiths, D. V.) ★ Programming the finite element method. **89d:65101**
Socolovsky, E. A. On the numerical approximation of finite speed diffusion problems. **89h:65191**
Solomon, J. M. *see* **Szymczak, William G.; et al., 89k:65143**
Song, Tian Xia A weighted finite element method. (Chinese. English summary) **89i:65122**
Steinberg, J. Computation of expansion coefficients in elliptic problems. **89b:65278**
Stenberg, R. A family of mixed finite elements for the elasticity problem. **89h:65192**
Stephan, E. P. (*with* Whiteman, J. R.) Singularities of the Laplacian at corners and edges of three-dimensional domains and their treatment with finite element methods. **89e:65124**
— *see also* **Costabel, M.**, (**89c:65004**)
Stephens, A. B. *see* **Aziz, A. K.; et al., 89e:65116**
Strese, Hartmut ★ BESSY: ein System zur Lösung ebener Probleme mit der Randelementmethode. (German) [BESSY: a system for the solution of plane problems with the boundary element method] **89c:65126**
— *see also* **Schmidt, Gunther, 89i:65121**
Succi, S. *see* **Appert, K.; et al., 89f:65117**
Suri, Manil Some optimal approximation results with applications to the h-, p- and h-p versions of the finite element method. **89b:65279**
— *see also* **Aziz, A. K.; et al., 89e:65116** *and* **Babuška, I., 89k:65131**
Szabados, T. *see* **Kónya, I.; et al., 89c:65121**
Szymczak, William G. (*with* Solomon, J. M.; Berger, A. E.; Bell, J. B.) Multiple discrete solutions of the incompressible steady-state Navier-Stokes equations. **89k:65143**
Tan, Bang Ben The application of generalized variational principle in finite element semi-analytical method. **89m:65104**
Tang, Li Min *see* **Liu, Ying Xi; et al.**, (Not in MR)
Tounsi, A. *see* **Lenoir, Marc André, 89k:65138**
Touzani, Rachid Implementation of the discontinuous finite element method for hyperbolic equations. **89d:65102**
Tran Van Bon Finite element analysis of primal and dual variational formulations of semicoercive elliptic problems with nonhomogeneous obstacles on the boundary. (Russian and Czech summaries) **89m:65105**
Trouvé, Pascal *see* **Bernadou, Michel; et al., 89b:65257**
Tveito, Aslak *see* **Langtangen, Hans Petter, 89h:65181**
Vaclavik, J. *see* **Appert, K.; et al., 89f:65117**
Vahdati, M. *see* **Löhner, Rainald; et al.**, (Not in MR)
Vasilopoulos, D. On the determination of higher order terms of singular elastic stress fields near corners. **89h:65193**
Vassilevski, P. S. *see* **Lazarov, R. D.; et al., 89b:65270**
Verdi, Claudio *see* **Nochetto, Ricardo H., 89m:65102**
Verfürth, R. Multilevel algorithms for mixed problems. II. Treatment of the mini-element. **89a:65175**
Villard, L. *see* **Appert, K.; et al., 89f:65117**

Wang, Hong[1] A boundary element method for the Laplace equation in three dimensions. (Chinese. English summary) **89e:65125**
Wang, Hui-Ching *see* **Deb, Anindya**, (Not in MR)
Wang, Jin Xian (*with* Zeng, Jin Ping) A multigrid method for nonsymmetric variational problems. (Chinese. English summary) **89i:65123**
Wang, Jun Ping *see* **Durán, R.; et al., 89b:65261** *and* **Douglas, Jim, Jr., 89j:65069**
Wang, Lie Heng A direct method for solving the discrete mixed finite element equations of the biharmonic problem. (Chinese. English summary) **89a:65176**
– On the necessity of Babuška-Brezzi's condition for the saddle point problem. (Chinese. English summary) **89j:65076**
Wang, Ming[1] (*with* Zhang, Hong Qing[1]) Finite element methods for the planar stationary Navier-Stokes equations. (Chinese. English summary) **89b:65280**
– Finite element method for a class of nonlinear problems. I. Abstract results. **89f:65127**
– On the penalty finite element methods for the stationary Stokes problem. (Chinese. English summary) **89f:65128**
– (*with* Zhang, Hong Qing[1]) On the embedding and compact properties of finite element spaces. **89i:65125**
– Finite element method for a class of nonlinear problems. II. Applications. **89i:65124**
Wathen, A. J. Spectral bounds and preconditioning methods using element-by-element analysis for Galerkin finite element equations. (*see* **89c:65004**)
Wendland, W. (*with* Yu, De Hao) Adaptive boundary element methods for strongly elliptic integral equations. **89h:65194**
– *see also* **Rannacher, R., 89e:65122** *and* **Ruotsalainen, K., 89h:65189**
Werschulz, Arthur G. Complexity of differential and integral equations. **89b:65281**
– Finite element methods are not always optimal. **89c:65127**
Wheeler, Mary Fanett *see* **Nakata, Mie, 89b:65273**
(Whiteman, Caroline M.) *see* **Schwarz, H.-R., 89h:65190**
Whiteman, J. R. (*with* Goodsell, G.) Superconvergent recovery for stresses from finite element approximations on subdomains for planar problems of linear elasticity. **89h:65195**
– *see also* **Stephan, E. P., 89e:65124; Gavete, L.; et al.,** (**89c:65004**) *and* **Schwarz, H.-R., 89h:65190**
Wu, Xiao Nan *see* **Han, Hou De, 89j:65073**
Xie, Rui Feng *see* **Lin, Qun, 89b:65272**
Xu, Chang Fa (*with* Lei, Yan Song) L_2 and L_∞ estimates for semidiscrete Galerkin approximations to solutions of a class of nonlinear hyperbolic equations. (Chinese. English summary) **89j:65077**
– (*with* Lei, Yan Song) L_2 and L_∞ estimates for semidiscrete Galerkin approximation solutions to weakly nonlinear parabolic differential equations. (Chinese. English summary) **89k:65144**
Xu, Jin Chao *see* **Bramble, James H.; et al., 89b:65260**
Yamabuchi, Tatsuo (*with* Kagawa, Yukio) Finite element approach to unbounded Poisson and Helmholtz problems using hybrid-type infinite element. (Not in MR)
Yan, Chun Tao Asymptotic expansions of L_2 projections and Galerkin projections. (Chinese. English summary) **89h:65196**
Yano, Hideo (*with* Kieda, A.; Nishioka, Katsuhiro) A combined scheme of finite elements and finite differences. **89m:65106**
Ying, Long An The assumed deviatoric stress, pressure, velocity mixed finite element method with nonlinear momentum balance equation. (Chinese summary) **89e:65126**
Yu, De Hao Self-adaptive boundary element methods. **89h:65197**
– *see also* **Wendland, W., 89h:65194**
Zeng, Jin Ping *see* **Wang, Jin Xian, 89i:65123**
Ženíšek, Alexander *see* **Feistauer, Miloslav, 89b:65263**
Zhan, Chong Xi A block method for solving linear equations from finite element methods. (Chinese. English summary) **89b:65282**
– Nonconforming finite elements with compensation for plate bending problems. **89b:65283**
Zhang, Hong Qing[1] *see* **Wang, Ming**[1]**, 89b:65280** *and* **89i:65125**
Zhang, Lin[1] Extensional universal serendipity elements. **89b:65284**
Zhang, Nai Ying (*with* Zhou, Yi Shao) Some maximum norm error estimates, without a factor $|\log h|$, for semidiscrete piecewise linear finite element approximations for parabolic equations. (Chinese. English summary) **89i:65126**
Zhang, Wu (*with* Zhou, Tian Xiao) A mixed stiffness finite element method for Navier-Stokes equation. **89e:65127**
Zhou, Shi Jun Elementary theoretical analysis for the global element method. (Chinese. English summary) **89b:65285**
Zhou, Tian Xiao *see* **Zhang, Wu, 89e:65127**
Zhou, Yi Shao *see* **Zhang, Nai Ying, 89i:65126**
Zhu, J. Z. *see* **Zienkiewicz, O. C.; et al.,** (**89c:65004**)
Zieliński, A. P. Trefftz method: elastic and elastoplastic problems. **89d:65103**
Zienkiewicz, O. C. (*with* Zhu, J. Z.; Liu, Y. C.; Morgan, Kenneth; Peraire, J.) Error estimates and adaptivity from elasticity to high speed compressible flow. (*see* **89c:65004**)
Zlámal, Miloš A. *see* **Markowich, P. A., 89a:65171**
Zolésio, J.-P. *see* **Delfour, M. C.; et al., 89g:65139**

Items with secondary classifications in 65N30

Abel, John F. *see* **White, Donald W.,** (Not in MR)
Aitchison, P. W. *see* **Krolman, N. G. D., 89g:65054**
Altenbach, J. (*with* Scholz, E.) Local mesh refinements and macro transition elements in stress analysis. (*see* **89c:65004**)
Balestra, M. *see* **Hughes, Thomas J. R.; et al., 89j:76015d** *and* **89j:76015e**
Bank, R. (*with* Dupont, Todd F.; Yserentant, Harry) The hierarchical basis multigrid method. **89b:65247**
Barnyak, M. Ya. Application of the method of orthogonal projections to the investigation of small oscillations of a fluid in a vessel. (Russian) **89g:76020**
Beauquet, Gilles (*with* Pogu, Marc) ★ Programmation des éléments finis $(P_1, 2D)$. (French) [Programming the finite elements $(P_1, 2D)$] **89k:65001**
Benmouna, M. *see* **Jordan, A.; et al., 89c:80010**
Bercovier, Michel *see* **Schatzman, Michelle, 89k:65112**
Bespalov, A. N. (*with* Kuznetsov, Yuriĭ Alekseevich) RF cavity computations by the domain decomposition and fictitious components methods. **89a:78010**
— Finite element method for the eigenmode problem of a RF cavity resonator. **89i:78001**
Billey, V. (*with* Périaux, Jacques; Perrier, P.; Stoufflet, Bruno) 2-D and 3-D Euler computations with finite element methods in aerodynamics. **89a:76001**
Borucki, A. *see* **Jordan, A.; et al., 89c:80010**
Bossavit, A. Mixed finite elements and the complex of Whitney forms. **89k:58028**
Bouayed, F. *see* **Jordan, A.; et al., 89c:80010**
Brădeanu, Doina Finding variational functionals by the Galerkin procedure. Applications to the heat transfer. **89k:80012**
Brandt, Achi *see* **Ruge, J., 89i:73008**
Brebbia, Carlos Alberto (*with* Telles, J. C. F.; Wrobel, L. C.) ★ Методы граничных элементов. (Russian) [Boundary element techniques] **89i:65002**
— *see also* **Doblaré, M.; et al., 89b:65005**
Brilla, Jozef Laplace transform-boundary element method for time dependent problems (invited contribution). **89i:73036**
Canuto, Claudio (*with* Funaro, D.) The Schwarz algorithm for spectral methods. **89b:65286**
Carey, G. F. *see* **MacKinnon, R. J., 89g:76009**
Carlson, Neil (*with* Miller, Keith) Gradient weighted moving finite elements in two dimensions. **89i:65094**
Contri, P. (*with* Schrefler, B. A.) A geometrically nonlinear finite element analysis of wrinkled membrane surfaces by a no-compression material model. **89c:73058**
Cortey-Dumont, Philippe Sur l'analyse numérique des équations de Hamilton-Jacobi-Bellman. (English summary) [On the numerical analysis of the Hamilton-Jacobi-Bellman equations] **89d:65065**
Dechaumphai, Pramote *see* **Thornton, Earl A., 89h:80001**
Dervieux, Alain *see* **Lallemand, Marie-Hélène, 89i:76013**
Doblaré, M. (*with* Hromadka, Th. V., II; Iso, Yuusuke; O'Callaghan, M. J. A.; Onishi, K.; Pina, H.; Quinlan, P. M.; Schippers, H.; Takahashi, Shuichi; Tanaka, Masataka; Telles, J. C. F.; Wrobel, L. C.) ★ Topics in boundary element research. Vol. 3. **89b:65005**
Dupont, Todd F. *see* **Bank, R.; et al., 89b:65247**
Euvrard, Daniel ★ Résolution numérique des équations aux dérivées partielles de la physique, de la mécanique et des sciences de l'ingénieur. (French) [Numerical solution of partial differential equations in physics, mechanics and engineering] **89d:65002**
Fletcher, C. A. J. Computational modelling of severe gradients with mass operator constructions. **89j:76012**
Franca, Leopoldo P. *see* **Hughes, Thomas J. R.; et al., 89j:76015d; 89j:76015e; 89j:76015f** *and* **89j:76015g**
Funaro, D. *see* **Canuto, Claudio, 89b:65286**
Gao, Yang On the complementary bounding theorems for limit analysis. **89i:73029**
Gatica, Gabriel A note on the a posteriori error analysis for the finite element method. **89c:65115**
Gelin, J. C. (*with* Picart, P.) Use of quasi-Newton methods for large strain elastic-plastic finite element computations. **89d:73022**
Goodsell, G. *see* **Whiteman, J. R., 89d:73046**
Gorman, D. G. (*with* Kennedy, William) ★ Applied solid dynamics. **89h:73001**
(Grigolyuk, È. I.) *see* **Brebbia, Carlos Alberto; et al., 89i:65002**
Hackbusch, Wolfgang The panel clustering technique for the boundary element method (invited contribution). **89i:76011**
Hale, Jack K. (*with* Lin, Xiao-Biao; Raugel, Geneviève) Upper semicontinuity of attractors for approximations of semigroups and partial differential equations. **89a:47093**
Handscomb, D. C. Recovery of fluid flow fields. **89f:65024**
Hassan, K. (*with* Sarigül, N.) A study of the influence of the angle condition on plate bending of triangular finite elements. **89d:73037**
Heinrichs, Wilhelm Effective preconditioning for spectral multigrid methods. (*see* **89m:65007**)
Hromadka, Th. V., II *see* **Doblaré, M.; et al., 89b:65005**
Hsiao, G. C. Boundary element methods for a class of exterior singular perturbation problems. **89g:76008**
— (*with* Porter, John F.) A hybrid method for an exterior boundary value problem based on asymptotic expansion, boundary integral equation and finite element approximations. **89c:76012**
Hsu, Tai Ran ★ The finite element method in thermomechanics. **89g:73005**
Hughes, Thomas J. R. (*with* Mallet, Michel) A new finite element formulation for computational fluid dynamics. III. The generalized streamline operator for multidimensional advective-diffusive systems. **89j:76015a**
— (*with* Mallet, Michel) A new finite element formulation for computational fluid dynamics. IV. A discontinuity-capturing operator for multidimensional advective-diffusive systems. **89j:76015c**
— (*with* Franca, Leopoldo P.; Balestra, M.) A new finite element formulation for computational fluid dynamics. V. Circumventing the Babuška-Brezzi condition: a stable Petrov-Galerkin formulation of the Stokes problem accommodating equal-order interpolations. **89j:76015d**
— (*with* Mallet, Michel) Errata: "A new finite element formulation for computational fluid dynamics. III. The generalized streamline operator for multidimensional advective-diffusive systems". **89j:76015b**
— (*with* Franca, Leopoldo P.; Balestra, M.) Errata: "A new finite element formulation for computational fluid dynamics. V. Circumventing the Babuška-Brezzi condition: a stable Petrov-Galerkin formulation of the Stokes problem accommodating equal-order interpolations". **89j:76015e**
— (*with* Franca, Leopoldo P.; Mallet, Michel) A new finite element formulation for computational fluid dynamics. VI. Convergence analysis of the generalized SUPG formulation for linear time-dependent multidimensional advective-diffusive systems. **89j:76015f**
— (*with* Franca, Leopoldo P.) A new finite element formulation for computational fluid dynamics. VII. The Stokes problem with various well-posed boundary conditions: symmetric formulations that converge for all velocity/pressure spaces. **89j:76015g**
— (*with* Hulbert, Gregory M.) Space-time finite element methods for elastodynamics: formulations and error estimates. **89c:73060**
Hulbert, Gregory M. *see* **Hughes, Thomas J. R., 89c:73060**

Hwang, C. C. (*with* Pan, Ching Tsai) Comparison of finite element methods for the diffusion problem. **89d:49030**

Ingber, Marc S. (*with* Mitra, Ambar K.) The evaluation of the normal derivative along the boundary in the direct boundary element method. (Not in MR)

Iso, Yuusuke *see* **Doblaré, M.; et al., 89b:65005**

Jacobs, F. J. *see* **Schmidt, G. H., 89j:76083**

Johnson, Claes ★ Numerical solution of partial differential equations by the finite element method. **89b:65003a**

— ★ Numerical solution of partial differential equations by the finite element method. **89b:65003b**

Jordan, A. (*with* Bouayed, F.; Borucki, A.; Benmouna, M.) Numerical method for the resolution of nonlinear heat transfer problems. **89c:80010**

Jureidini, W. N. The asymptotic behaviour of some semi-discrete and fully-discrete finite element schemes for the evolution Navier-Stokes equations. **89j:76017**

Karapetyan, G. A. The Galerkin method for a general class of regular and irregular quasilinear equations. (Russian. Armenian summary) **89m:35065**

(Kardestuncer, H.) *see* **Handbook: Finite element, 89g:65001**

Kennedy, William *see* **Gorman, D. G., 89h:73001**

Kikuchi, Noboru (*with* Oden, J. T.) ★ Contact problems in elasticity: a study of variational inequalities and finite element methods. **89j:73097**

(Korneĭchuk, L. G.) *see* **Brebbia, Carlos Alberto; et al., 89i:65002**

Kosler, R. Fehlerabschätzungen für die Methode der finiten Elemente bei nichtmonotonen elliptischen Problemen mit starken Nichtlinearitäten. [Error estimates for the finite element method in nonmonotone elliptic problems with strong nonlinearities] **89k:65123**

Krolman, N. G. D. (*with* Aitchison, P. W.) A new tearing method for finite element analysis. **89g:65054**

Kufner, A. (*with* Sändig, Anna-Margarete) ★ Some applications of weighted Sobolev spaces. **89h:35096**

Kustovskiĭ, V. D. (*with* Shikhvatov, A. M.) A coordinate system for cupola-shaped shells. (Russian) **89g:73040**

Kuznetsov, Yuriĭ Alekseevich *see* **Bespalov, A. N., 89a:78010**

Lallemand, Marie-Hélène (*with* Dervieux, Alain) A multigrid finite element method for solving the two-dimensional Euler equations. **89i:76013**

Lapin, A. V. Solution of variational inequalities with nonlinear semicoercive operators. (Russian) **89m:47062**

Larchenko, V. V. An adapting variational method under conditions of nonuniqueness of the solution and the singular perturbation. **89i:35013**

Lefebvre, Dominique *see* **Zienkiewicz, O. C., 89h:73003**

Le Tallec, Patrick Numerical solution of viscoplastic flow problems by augmented Lagrangians. **89k:73032**

Li, Wen Long (*with* Zhang, Xiang Lin) On the convergence of elastoplastic boundary element analysis. **89m:73003**

Lin, Xiao-Biao *see* **Hale, Jack K.; et al., 89a:47093**

Liu, Chu Zhong Seminorms on Sobolev spaces. (Chinese. English summary) **89i:46037**

Lovera, Oscar Mario (*with* Santos, Juan Enrique) Numerical methods for a model for wave propagation in composite anisotropic media. (French summary) **89d:73012**

Lu, Jun An *see* **Xu, Jia Mo, 89b:35033**

MacKinnon, R. J. (*with* Carey, G. F.) Analysis of material interface discontinuities and superconvergent fluxes in finite difference theory. **89g:76009**

Malkus, David S. (*with* Qiu, Xiang Jun) Divisor structure of finite element eigenproblems arising from negative and zero masses. **89c:73061**

Mallet, Michel *see* **Hughes, Thomas J. R., 89j:76015a; 89j:76015b; 89j:76015c** *and* **89j:76015f**

Mandel, Jan (*with* Ombe, Hitoshi) Fourier estimates for a multigrid method for three-dimensional elasticity. **89j:73006**

Marti, Jürg ★ Introduction to Sobolev spaces and finite element solution of elliptic boundary value problems. **89c:46050**

Maslovskaya, L. V. Convergence of a semimixed finite element method for fundamental boundary value problems of the theory of shallow shells in weighted Sobolev spaces. **89h:73035**

Miller, Keith *see* **Carlson, Neil, 89i:65094**

Mitchell, Andrew Ronald (*with* Reid, Lynn B.) A Galerkin method with quadrature for nonlinear parabolic equations in population genetics. **89k:92059**

Mitra, Ambar K. *see* **Ingber, Marc S.**, (Not in MR)

Monk, P. B. An iterative finite element method for approximating the biharmonic equation. **89m:65095**

Morton, K. W. Galerkin finite element methods and their generalisations. **89e:65100**

Nassif, N. R. Some results on finite-element approximation of a quasi-variational inequality in semiconductor analysis. **89f:49007**

Nedoma, Josef^2 Static calculation of shells by the finite-element method. (Czech) **89h:73029**

Nochetto, Ricardo H. (*with* Verdi, Claudio) An efficient linear scheme to approximate parabolic free boundary problems: error estimates and implementation. **89k:65124**

Noor, Muhammad Aslam Finite element analysis for a class of nonlinear variational inequalities. **89b:73028**

(Norrie, D. H.) *see* **Handbook: Finite element, 89g:65001**

O'Callaghan, M. J. A. *see* **Doblaré, M.; et al., 89b:65005**

Oden, J. T. *see* **Wu, Shen Rong**^{2}**, 89a:76027** *and* **Kikuchi, Noboru, 89j:73097**

Ombe, Hitoshi *see* **Mandel, Jan, 89j:73006**

Ong, Hoon Liong Construction of triangular linear spline interpolation error functions with application to finite element error analysis. **89c:65019**

Onishi, K. Boundary element methods applied to transport phenomena. (*see* **89g:76003d**)

— *see also* **Doblaré, M.; et al., 89b:65005**

Pan, Ching Tsai *see* **Hwang, C. C., 89d:49030**

Paolini, M. (*with* Sacchi, G.; Verdi, Claudio) Finite element approximations of singular parabolic problems. **89j:76023**

Périaux, Jacques *see* **Billey, V.; et al., 89a:76001**

Perrier, P. *see* **Billey, V.; et al., 89a:76001**

Picart, P. *see* **Gelin, J. C., 89d:73022**

Pierre, R. Convergence properties and numerical approximation of the solution of the Mindlin plate bending problem. **89c:73050**

Pina, H. *see* **Doblaré, M.; et al., 89b:65005**

Pitkäranta, Juhani A modified Reissner-Mindlin formulation for plates with corners. **89j:73065**

Pogu, Marc *see* **Beauquet, Gilles, 89k:65001**

Porter, John F. *see* **Hsiao, G. C., 89c:76012**

Pramila, A. *see* **Virtanen, S., 89c:73064**

Qiu, Xiang Jun *see* **Malkus, David S., 89c:73061**

Quinlan, P. M. *see* **Doblaré, M.; et al., 89b:65005**

Raugel, Geneviève *see* **Hale, Jack K.; et al., 89a:47093**

Reid, J. K. Algebraic aspects of finite-element solutions. **89b:65006**

Reid, Lynn B. *see* **Mitchell, Andrew Ronald, 89k:92059**

Reusken, A. Convergence of the multilevel full approximation scheme including the V-cycle. **89k:65072**

Ruge, J. (*with* Brandt, Achi) A multigrid approach for elasticity problems on "thin" domains. **89i:73008**

Sacchi, G. *see* **Paolini, M.; et al., 89j:76023**

Sändig, Anna-Margarete *see* **Kufner, A., 89h:35096**

Santos, Juan Enrique *see* **Lovera, Oscar Mario, 89d:73012**

Sarigül, N. *see* **Hassan, K., 89d:73037**

Schatzman, Michelle (*with* Bercovier, Michel) Numerical approximation of a wave equation with unilateral constraints. **89k:65112**

Schippers, H. *see* **Doblaré, M.; et al., 89b:65005**

Schmidt, G. H. (*with* Jacobs, F. J.) Adaptive local grid refinement and multi-grid in numerical reservoir simulation. **89j:76083**

Scholz, E. *see* **Altenbach, J., (89c:65004)**

Schrefler, B. A. *see* **Contri, P., 89c:73058**

Schumaker, L. L. Constructive aspects of spaces of bivariate piecewise polynomials. (*see* **89c:65004**)

Shaĭdurov, V. V. Multigrid iterative methods for solving the biharmonic equation. (Russian) **89e:65134**

Shen, C. Y. (*with* Vaugrant, P.) Finite element and continuation method for planar deformation of thin structures. **89i:73057**

Shikhvatov, A. M. *see* **Kustovskiĭ, V. D., 89g:73040**

Siganevich, G. L. The best error estimate for linear interpolation on a triangle of functions in $W_2^2(T)$. **89h:65022**

Silvester, D. J. Optimizing element matrix calculations using the technique of element vectorization. (*see* **89c:65004**)

Stenberg, R. Two low-order mixed methods for the elasticity problem. **89j:73074**

Storch, Joel (*with* Strang, Gilbert) Paradox lost: natural boundary conditions in the Ritz-Galerkin method. **89g:73007**

Stoufflet, Bruno *see* **Billey, V.; et al., 89a:76001**

Strang, Gilbert *see* **Storch, Joel, 89g:73007**

Suleĭmanov, N. S. Approximate methods for the calculation of the eigenvalues and eigenfunctions of boundary value problems of Steklov type. (Russian) **89b:35029**

Süli, E. Stability and convergence of the Lagrange-Galerkin method with nonexact integration. (*see* **89c:65004**)

Takahashi, Shuichi *see* **Doblaré, M.; et al., 89b:65005**

Tanaka, Masataka *see* **Doblaré, M.; et al., 89b:65005**

Telles, J. C. F. *see* **Doblaré, M.; et al., 89b:65005** *and* **Brebbia, Carlos Alberto; et al., 89i:65002**

Temam, Roger Survey of the status of finite element methods for partial differential equations. **89m:65003**

Thornton, Earl A. (*with* Dechaumphai, Pramote) Finite element methodology for integrated flow-thermal-structural analysis. **89h:80001**

Tiihonen, Timo (*with* Zolésio, J.-P.) Gradient with respect to nodes for nonisoparametric finite elements. (*see* **89b:93006**)

Vaugrant, P. *see* **Shen, C. Y., 89i:73057**

Verdi, Claudio *see* **Paolini, M.; et al., 89j:76023** *and* **Nochetto, Ricardo H., 89k:65124**

Virtanen, S. (*with* Pramila, A.) A refined Hermitian isoparametric plate bending element. **89c:73064**

Vujasinovic, Y. Contribution à la résolution numérique du problème de réfraction-diffraction de la houle à l'aide des variables amplitude et phase par une méthode d'éléments finis. (English summary) [Finite-element resolution of the ocean wave refraction-diffraction problem using the amplitude and phase of the potential] (Not in MR)

Wang, Hong^1 Stability and convergence of a finite element method for a nonstationary nonlinear fourth order equation. (Chinese) **89f:65100**

— *see also* **Yuan, Yi Rang, 89k:65110**

Wendland, W. Mathematical properties and asymptotic error estimates for elliptic boundary element methods. **89d:65115**

White, Donald W. (*with* Abel, John F.) Bibliography on finite elements and supercomputing. (Not in MR)

Whiteman, J. R. (*with* Goodsell, G.) On some finite element error estimates for stress intensity factors in mode I linear elastic fracture problems. **89d:73046**

— *see also* **Mathematics of finite elements and applications, 89c:65004**

Wrobel, L. C. *see* **Doblaré, M.; et al., 89b:65005** *and* **Brebbia, Carlos Alberto; et al., 89i:65002**

Wu, Shen Rong^2 (*with* Oden, J. T.) Convergence and error estimates for finite element solutions of elastohydrodynamic lubrication. **89a:76027**

Xie, Zheng Hui Numerical solution of a thin plate problem with a constraint on the mean curvature. (Chinese. English summary) **89i:73047**

Xu, Jia Mo (*with* Lu, Jun An) Optimum domain problems governed by a class of PDE. **89b:35033**

Yang, Dan Ping Boundary finite element method for heat conduction equation. **89h:80002**

Yserentant, Harry *see* **Bank, R.; et al., 89b:65247**

Yuan, Yi Rang (*with* Wang, Hong^1) The discrete-time finite element methods for nonlinear hyperbolic equations and their theoretical analysis. **89k:65110**

Zhang, Xiang Lin *see* **Li, Wen Long, 89m:73003**

Zienkiewicz, O. C. (*with* Lefebvre, Dominique) Mixed methods for F.E.M. and the patch test; some recent developments. **89h:73003**

Zlotnik, A. A. The rate of convergence in $W^1_{2,h}$ of variational-difference schemes for elliptic equations. (Russian) **89a:65153**

Zolésio, J.-P. *see* **Tiihonen, Timo**, (**89b:93006**)

Items listed otherwise than by author

Conference:

Mathematics of Finite Elements and Applications ★ The mathematics of finite elements and applications. VI. **89c:65004**

Handbook:

Finite element ★ Finite element handbook. **89g:65001**

Mathematics of finite elements and applications ★ The mathematics of finite elements and applications. VI. **89c:65004**

Uxbridge ★ The mathematics of finite elements and applications. VI. **89c:65004**

65N35 Collocation and related methods

Canuto, Claudio Boundary conditions in Chebyshev and Legendre methods. **89b:65287**

— (*with* Quarteroni, A.) On the boundary treatment in spectral methods for hyperbolic systems. **89c:65128**

— (*with* Funaro, D.) The Schwarz algorithm for spectral methods. **89b:65286**

Funaro, D. (*with* Gottlieb, David) A new method of imposing boundary conditions in pseudospectral approximations of hyperbolic equations. **89j:65078**

— *see also* **Canuto, Claudio, 89b:65286**

Gottlieb, David *see* **Funaro, D., 89j:65078**

Grabarski, Adam The collocation method for a quasilinear parabolic equation in the case of two space variables. **89a:65177**

Guo, Ben Yu *see* **Ma, He Ping, 89k:65145**

Heinrichs, Wilhelm ★ Kollokationsverfahren und Mehrgittermethoden bei elliptischen Randwertaufgaben. (German) [Collocation methods and multigrid methods for elliptical boundary value problems] **89g:65146**

— Collocation and full multigrid methods. **89e:65128**

Houstis, E. N. (*with* Vavalis, E. A.; Rice, John Rischard) Convergence of $O(h^4)$ cubic spline collocation methods for elliptic partial differential equations. **89a:65178**

Hromadka, Th. V., II (*with* Yen, Ch.-Ch.; Pinder, G. F.) ★ The best approximation method. An introduction. **89b:65288**

Kazakov, V. A. An approach to the application of B-splines in splitting schemes for the solution of Navier-Stokes equations. (Russian) **89h:65198**

Ma, He Ping (*with* Guo, Ben Yu) The Chebyshev spectral method for Burgers-like equations. **89k:65145**

Pinder, G. F. *see* **Hromadka, Th. V., II; et al., 89b:65288**

Quarteroni, A. *see* **Canuto, Claudio, 89c:65128**

Rice, John Rischard *see* **Houstis, E. N.; et al., 89a:65178**

Ruotsalainen, K. (*with* Saranen, J.) A dual method to the collocation method. **89i:65127**

Saranen, J. On the convergence of the spline collocation with discontinuous data. **89b:65289**

— The convergence of even degree spline collocation solution for potential problems in smooth domains of the plane. **89h:65199**

— Collocation method for potential problems with trial functions of even degree. (Not in MR)

— *see also* **Ruotsalainen, K., 89i:65127**

Vavalis, E. A. *see* **Houstis, E. N.; et al., 89a:65178**

Yen, Ch.-Ch. *see* **Hromadka, Th. V., II; et al., 89b:65288**

Items with secondary classifications in 65N35

Bernardi, Christine (*with* Maday, Yvon; Métivet, Brigitte) Spectral approximation of the periodic-nonperiodic Navier-Stokes equations. **89f:65118**

— (*with* Maday, Yvon) Spectral methods for the approximation of fourth-order problems: application to the Stokes and Navier-Stokes equations. **89g:76005**

— (*with* Maday, Yvon) A collocation method over staggered grids for the Stokes problem. **89j:76041**

Canuto, Claudio Spectral methods and a maximum principle. **89d:65099**

Gärtel, Ute ★ Fehlerabschätzungen für vektorwertige Randwertaufgaben zweiter Ordnung, insbesondere für Probleme aus der chemischen Reaktions-Diffusions-Theorie. (German) [Error estimates for vector-valued boundary value problems of second order, particularly for problems of chemical reaction-diffusion theory] **89k:65122**

Goodrich, John W. *see* **Soh, W. Y., 89g:76011**

Gottlieb, David (*with* Lustman, Liviu; Tadmor, Eitan) Convergence of spectral methods for hyperbolic initial-boundary value systems. **89i:65089**

Ito, Kazufumi (*with* Teglas, Russell) Legendre-tau approximation for functional-differential equations. II. The linear quadratic optimal control problem. **89h:34070**

Lustman, Liviu *see* **Gottlieb, David; et al., 89i:65089**

Maday, Yvon *see* **Bernardi, Christine; et al., 89f:65118; 89g:76005** *and* **89j:76041**

Métivet, Brigitte *see* **Bernardi, Christine; et al., 89f:65118**

Sacchi Landriani, G. (*with* Vandeven, Hervé) Polynomial approximation of divergence-free functions. **89m:65021**

Soh, W. Y. (*with* Goodrich, John W.) Unsteady solution of incompressible Navier-Stokes equations. **89g:76011**

Sternberg, Natalia A spectral method for nonlinear wave equations. **89f:35142**

Tadmor, Eitan *see* **Gottlieb, David; et al., 89i:65089**

Teglas, Russell *see* **Ito, Kazufumi, 89h:34070**

Vandeven, Hervé *see* **Sacchi Landriani, G., 89m:65021**

65N40 Methods of lines

Li, Si Fan *see* **Rong, Ao Sheng, 89h:65200**

Mikhail, Mikhail Naguib On the validity and stability of the method of lines for the solution of partial differential equations. **89g:65147**

Ramanujam, N. (*with* Sunanda Kumari, V. M.) Method of lines for elliptic differential equations with a small parameter. **89k:65146**

Rong, Ao Sheng (*with* Li, Si Fan) Analysis of shielded multiple dielectric planar transmission lines with the method of lines. **89h:65200**

Sunanda Kumari, V. M. *see* **Ramanujam, N., 89k:65146**

Items with secondary classifications in 65N40

Goloskokov, D. P. *see* **Goloskokov, P. G., 89i:35051**

Goloskokov, P. G. (*with* Goloskokov, D. P.) On the convergence of L. V. Kantorovich's variational method for the biharmonic equation. (Russian) **89i:35051**

de Vries, H. B. The multigrid method in the solution of time-dependent nonlinear partial differential equations. (German and Russian summaries) **89a:65142**

65N50 Mesh generation and refinement

Berkun, V. B. *see* **Kucherenko, V. V., 89b:65291**

Bourgat, J.-F. (*with* Glowinski, R.; Le Tallec, Patrick) Formulation variationnelle et algorithme de décomposition de domaines pour les problèmes elliptiques. (English summary) [Variational formulation and domain decomposition algorithm for elliptic problems] **89b:65290**

Castillo, José E. (*with* Steinberg, Stanly; Roache, Patrick J.) Parameter estimation in variational grid generation. **89h:65201**

— (*with* Steinberg, Stanly; Roache, Patrick J.) On the folding of numerically generated grids: use of a reference grid. **89e:65129**

Charakhch′yan, A. A. *see* **Ivanenko, S. A., 89f:65129**

Glowinski, R. *see* **Bourgat, J.-F.; et al., 89b:65290**

Hackbusch, Wolfgang (*with* Hagemann, Sigrid) Frequency decomposition multi-grid methods for hyperbolic problems. (*see* **89j:35007**)

Hagemann, Sigrid *see* **Hackbusch, Wolfgang**, (**89j:35007**)

Heinrichs, Wilhelm Line relaxation for spectral multigrid methods. **89g:65148**

— Multigrid methods for combined finite difference and Fourier problems. **89h:65202**

Heroux, M. (*with* McCormick, Stephen F.; McKay, Steven M.; Thomas, J. W.) Applications of the fast adaptive composite grid method. **89g:65149**

Hunt, Roland Single-level multigrid. **89g:65150**

Ishiguro, Tomiko *see* **Ogawa, Satoru; et al., 89e:65132**

Isles, J. D. *see* **Mills, R. J.; et al., 89e:65131**

Ivanenko, S. A. (*with* Charakhch′yan, A. A.) Curvilinear grids from convex quadrangles. (Russian) **89f:65129**

Kelly, D. W. *see* **Mills, R. J.; et al., 89e:65131**

Kucherenko, V. V. (*with* Berkun, V. B.) Investigation of the convergence of the multigrid method for stiff problems in domains of complex configuration. **89b:65291**

Le Tallec, Patrick *see* **Bourgat, J.-F.; et al., 89b:65290**

Li, Ting Chih (*with* Shih Wei; Ts′ui, Yung Mao) Local and global methods in adaptive grid for highly convective flow computation. **89e:65130**

Lippold, G. Adaptive approximation. (German and Russian summaries) **89c:65129**

Mastin, C. Wayne Implicit finite difference methods on composite grids. **89b:65292**

Matsokin, A. M. (*with* Nepomnyashchikh, S. V.) Norms in the space of traces of mesh functions. **89i:65128**

McCormick, Stephen F. *see* **Heroux, M.; et al., 89g:65149**

McKay, Steven M. *see* **Heroux, M.; et al., 89g:65149**

Miller, A. D. *see* **Mills, R. J.; et al., 89e:65131**

Mills, R. J. (*with* Kelly, D. W.; Reizes, J. A.; Isles, J. D.; Miller, A. D.) Exact error estimates and adaptive mesh transformation control for elliptic boundary value problems in $\mathbf{R}^1$. **89e:65131**

Nepomnyashchikh, S. V. *see* **Matsokin, A. M., 89i:65128**

Nishida, Hidetoshi (*with* Satofuka, Nobuyuki) Automatic higher-order multigrid method and its application. **89d:65104**

Ogawa, Satoru (*with* Ishiguro, Tomiko; Takakura, Yoko) Hyperbolic grid generation scheme for simulating flow about three-dimensional complex configuration. **89e:65132**

Parter, Seymour V. Preconditioning for singular perturbation problems. **89b:65293**

Pasciak, Joseph E. Domain decomposition preconditioners for elliptic problems in two and three dimensions. (*see* **89j:65093**)

Patera, Anthony T. *see* **Rønquist, Einar M., 89e:65133**

Prokopov, G. P. Some general problems on the design of algorithms for the construction of difference grids. (Russian) **89a:65179**

Reizes, J. A. *see* **Mills, R. J.; et al., 89e:65131**

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Rivara, María-Cecilia Numerical generation of nested series of general triangular grids. **89a:65180**

Roache, Patrick J. *see* **Castillo, José E.; et al., 89e:65129** *and* **89h:65201**

Rønquist, Einar M. (*with* Patera, Anthony T.) Spectral element multigrid. I. Formulation and numerical results. **89e:65133**

Satofuka, Nobuyuki *see* **Nishida, Hidetoshi, 89d:65104**

Shaĭdurov, V. V. Multigrid iterative methods for solving the biharmonic equation. (Russian) **89e:65134**

Shao, Jian Ping Schwarz alternating method and multigrid method. **89g:65151**

Shih, Wei *see* **Li, Ting Chih; et al., 89e:65130**

Siganevich, G. L. A variant of the method of fictitious grid domains. (Russian) **89k:65147**

Steinberg, Stanly *see* **Castillo, José E.; et al., 89e:65129** *and* **89h:65201**

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Takakura, Yoko *see* **Ogawa, Satoru; et al., 89e:65132**

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Thomas, J. W. *see* **Heroux, M.; et al., 89g:65149**

Trottenberg, Ulrich *see* **Thole, Clemens-August, 89e:65136**

Ts′ui, Yung Mao *see* **Li, Ting Chih; et al., 89e:65130**

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Yushchuk, L. I. Automatic triangulation of the plane domains of a complex logical structure for solving boundary value problems by the finite element method. (Russian) **89b:65294**
Zou, Jun A new fast solver—monotone MG method (MMG). **89k:65148**

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Altenbach, J. (*with* Scholz, E.) Local mesh refinements and macro transition elements in stress analysis. (*see* **89c:65004**)
Anderson, Dale A. Equidistribution schemes, Poisson generators, and adaptive grids. **89b:65223**
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Baehmann, P. L. (*with* Shephard, M. S.; Flaherty, Joseph E.) Adaptive analysis for automated finite element modeling. (*see* **89c:65004**)
Brandt, Achi Multilevel approaches to large scale problems. **89d:65003**
Charakhch′yan, A. A. *see* **Ivanenko, S. A., 89h:65148**
Dandy, D. S. *see* **Ascoli, E. P.; et al., 89h:65147**
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Finogenov, S. A. (*with* Kuznetsov, Yuriĭ Alekseevich) Two-stage fictitious components method for solving the Dirichlet boundary value problem. **89k:65119**
Flaherty, Joseph E. *see* **Baehmann, P. L.; et al.**, (**89c:65004**)
Gropp, William Local uniform mesh refinement on loosely-coupled parallel processors. **89d:65123**
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Ivanenko, S. A. (*with* Charakhch′yan, A. A.) An algorithm for constructing curvilinear grids consisting of convex quadrangles. **89h:65148**
Johnson, Claes *see* **Eriksson, Kenneth, 89c:65119**
Krist, S. E. *see* **Nosenchuck, D. M.; et al., 89k:76007**
Kuznetsov, Yuriĭ Alekseevich *see* **Finogenov, S. A., 89k:65119**
Leal, L. G. *see* **Ascoli, E. P.; et al., 89h:65147**
Liu, Chao Qun (*with* McCormick, Stephen F.) Multigrid, elliptic grid generation and the fast adaptive composite grid method for solving transonic potential flow equations. **89f:76010**
Löhner, Rainald Some useful data structures for the generation of unstructured grids. **89b:65225**
Manohar, R. *see* **Altas, I.; et al., 89g:65108**
McCormick, Stephen F. *see* **Liu, Chao Qun, 89f:76010** *and* **Multigrid methods, 89m:65004**
Mierendorff, Hermann Parallelization of multigrid methods with local refinements for a class of nonshared memory systems. **89i:65145**
Mittelmann, H. D. Multi-grid continuation and spurious solutions for nonlinear boundary value problems. **89i:65107**
Neittaanmäki, Pekka *see* **Haslinger, J.; et al.**, (**89c:65004**)
Nosenchuck, D. M. (*with* Krist, S. E.; Zang, T. A.) On multigrid methods for the Navier-Stokes computer. **89k:76007**
Quarteroni, A. Domain decomposition techniques using spectral methods. **89h:65149**
Salmenjoki, K. *see* **Haslinger, J.; et al.**, (**89c:65004**)
Saunders, B. V. (*with* Smith, Philip W.) Grid generation and optimization using tensor product B-splines. **89c:65105**
Schippers, H. Multigrid methods in boundary element calculations (invited contribution). **89i:76016**
Scholz, E. *see* **Altenbach, J.**, (**89c:65004**)
Shaĭdurov, V. V. A multigrid iterative algorithm for the mixed finite element method. **89e:65123**
Shephard, M. S. *see* **Baehmann, P. L.; et al.**, (**89c:65004**)
Smith, Philip W. *see* **Saunders, B. V., 89c:65105**
Stephenson, J. W. *see* **Altas, I.; et al., 89g:65108**
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de Vries, H. B. The multigrid method in the solution of time-dependent nonlinear partial differential equations. (German and Russian summaries) **89a:65142**
Zang, T. A. *see* **Nosenchuck, D. M.; et al., 89k:76007**

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Multigrid methods ★ Multigrid methods. **89m:65004**

65N99 None of the above, but in this section

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Adomian, George A. Elliptic equations and decomposition. **89e:65137**
Akishin, P. G. (*with* Akopyan, V. P.; Zhidkov, E. P.) ★ Решение двумерного уравнения Гельмгольца методом граничных интегральных уравнений. (Russian) [Solution of the two-dimensional Helmholtz equation by the method of boundary integral equations] **89a:65181**
Akopyan, V. P. *see* **Akishin, P. G.; et al., 89a:65181**
Al-Hammer, A. H. A. *see* **Anwar, Mohamed Naim Yehia, 89e:65138**
Anwar, Mohamed Naim Yehia (*with* Al-Hammer, A. H. A.) Numerical solution of multidimensional Stefan problem. **89e:65138**
Auzinger, Winfried A quantitative discrete H^2-regularity estimate for the Shortley-Weller scheme in convex domains. **89g:65152**
Baker, Christopher T. H. *see* **van der Houwen, P. J.; et al., 89h:65206**
Blum, Edward K. (*with* Reid, Gregory J.) On the numerical solution of three-dimensional boundary value problems by separation of variables. **89a:65182**
Burkovskaya, V. L. *see* **Makarov, Vladimir Leonidovich; et al., 89b:65298**
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Cai, Zhi Qiang (*with* Guo, Ben Yu) Error estimates for a Schwarz alternating procedure on L-shaped regions. **89j:65079**
Cao, Zhi Hao The contraction numbers of some nonstandard multigrid methods. (Chinese. English summary) **89k:65149**
Catherall, D. The optimisation of approximate-factorisation schemes for solving elliptic partial differential equations in three dimensions, featuring a new two-factor scheme. **89g:65153**
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Das, Shuvra *see* **Mitra, Ambar K., 89e:65142**
Dick, Erik Elliptic solution techniques for Euler and Navier-Stokes equations in steady flow. **89a:65183**
Drozdov, V. V. *see* **Galkin, S. A., 89a:65184**
Favorskiĭ, A. P. *see* **Solov′ëv, A. V.; et al., 89i:65133**
Feodoritova, O. B. *see* **Zhukov, V. T., 89h:65209**
Fitzsimons, Conor J. A comparison of some methods for the solution of the nonlinear Poisson equation in semiconductor device modelling. **89m:65107**
Fossa, G. (*with* Maier, Giulio; Masarati, P.; Novati, G.) Boundary element analysis in the presence of dihedral symmetry under general boundary conditions. (*see* **89f:65003**)
Frank, A. M. *see* **Pautov, V. N., 89k:65150**
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Gilmour, A. E. Circulant matrix methods for the numerical solution of partial differential equations by FFT convolutions. **89a:65185**
Gladkiĭ, A. V. Solution of the Helmholtz equation in some infinite domains. (Russian) **89b:65295**
Gorbenko, N. I. The method of fictitious components as a quadratic programming problem. (Russian) **89c:65131**
Grannell, J. J. Mathematical foundations of the edge-function method. (*see* **89f:65003**)
Graziani, G. *see* **Piva, R.; et al., 89b:65299**
Guo, Ben Yu *see* **Cai, Zhi Qiang, 89j:65079**
Hagstrom, T. M. (*with* Tewarson, R. P.; Jazcilevich, Aron) Numerical experiments on a domain decomposition algorithm for nonlinear elliptic boundary value problems. (Not in MR)
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Hill, M. G. (*with* Porter, David) The numerical determination of fundamental solutions of elliptic equations. **89h:65205**
van der Houwen, P. J. (*with* Sommeijer, B. P.; Baker, Christopher T. H.) On the stability of predictor-corrector methods for parabolic equations with delay. **89h:65206**
Hsiao, G. C. (*with* Monk, P. B.) A singular perturbation problem on microcomputers. **89i:65130**
Hu, Shengxu Samuel (*with* Shao, X. M.) Adaptive hybridized spline differentiators for numerical solution of the advection equation. **89e:65139**
Janssen, H. L. Recursive construction of a sequence of solutions to homogeneous linear partial differential equations with constant coefficients. **89a:65186**
Jazcilevich, Aron *see* **Hagstrom, T. M.; et al.**, (Not in MR)
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Kestřánek, Zdeněk Numerical analysis for optimal shape design in elliptic boundary value problems. (Russian and Czech summaries) **89h:65207**
Khaliq, A. Q. M. *see* **Twizell, E. H., 89k:65152** *and* (Not in MR)
Khapko, R. S. *see* **Lyudkevich, I. V.**, (Not in MR)
Kim, Tae Yon A numerical method of solution of nonlinear elliptic system of partial differential equations. (Korean. English summary) **89c:65132**
Kobel′kov, G. M. ★ О решении эллиптических уравнений с сильно меняющимися коэффициентами. (Russian) [Solution of elliptic equations with strongly varying coefficients] **89a:65187**
Kobylinskiĭ, Yu. V. (*with* Popkova, T. L.; Slepyan, G. Ya.) On the method of nonorthogonal series for the numerical solution of problems of mathematical physics. (Russian) **89e:65140**
Kopystyra, N. P. *see* **Makarov, Vladimir Leonidovich; et al., 89b:65298**
Kostromin, G. Ya. An algorithm for a random walk on parallelepipeds for solving a boundary value problem for a differential equation of elliptic type. (Russian) **89j:65081**
Kreiss, Gunilla Convergence to steady state of solutions of the Euler equations. I. **89b:65296**
Larsson, Ashley *see* **Clements, D. L.**, (**89b:00021**)
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Lê Ngọc Lăng On the iterative projection method for solving a class of heat transmission and diffusion problems. (Vietnamese. English summary) **89b:65297**
Li, Hui *see* **Wu, Ji Ke, 89j:65082**
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Lyudkevich, I. V. (*with* Khapko, R. S.) Numerical solution of the Neumann problem for the Helmholtz equation in the case of nonclosed surfaces by the method of integral equations. (Russian. English summary) (Not in MR)

Maier, Giulio *see* **Fossa, G.; et al., (89f:65003)**

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Masarati, P. *see* **Fossa, G.; et al., (89f:65003)**

Mitra, Ambar K. (*with* Das, Shuvra) Nonuniqueness in the integral equation formulation of the biharmonic equation in multiply connected domains. **89e:65142**

Monk, P. B. *see* **Hsiao, G. C., 89i:65130**

Morino, L. *see* **Piva, R.; et al., 89b:65299**

Ngai, T. Y. *see* **Manohar, R., 89i:65132**

Novati, G. *see* **Fossa, G.; et al., (89f:65003)**

Pautov, V. N. (*with* Frank, A. M.) An algorithm for constructing a Dirichlet mesh for nonstationary problems on the basis of local relocations. (Russian) **89k:65150**

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Polishchuk, A. D. ★ Численное решение пространственных краевых задач для уравнения Лапласа методом интегральных уравнений. (Russian) [Numerical solution of three-dimensional boundary value problems for the Laplace equation by the method of integral equations] **89f:65132**

Popkova, T. L. *see* **Kobylinskiĭ, Yu. V.; et al., 89e:65140**

Porter, David *see* **Hill, M. G., 89h:65205**

Pushkarev, L. I. (*with* Rasulov, A. S.) Solution of conjugate boundary value problems by the Monte Carlo method. (Russian) (*see* **89c:00022**)

Rasulov, A. S. *see* **Pushkarev, L. I., (89c:00022)**

Reid, Gregory J. *see* **Blum, Edward K., 89a:65182**

Reiter, Edna *see* **Rodrigue, Garry, (89j:65010)**

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Rumyantsev, A. N. *see* **Maksimov, V. P., (89c:00009)**

Sakakihara, M. An iterative boundary integral equation method for mildly nonlinear elliptic partial differential equation. (*see* **89f:65003**)

Selezov, I. T. Numerical solution of boundary value problems of the wave diffraction by arbitrary revolution surfaces. (*see* **89b:65012**)

Shao, X. M. *see* **Hu, Shengxu Samuel, 89e:65139**

Shashkov, M. Yu. *see* **Solov′ëv, A. V.; et al., 89i:65133**

Slepyan, G. Ya. *see* **Kobylinskiĭ, Yu. V.; et al., 89e:65140**

Sofianos, A. I. Integrals over boundaries at infinity for the boundary integral method may be ignored. **89h:65208**

Sofronov, I. L. A new method for the numerical solution of regular elliptic problems. **89f:65133**

Solov′ëv, A. V. (*with* Tishkin, V. F.; Favorskiĭ, A. P.; Shashkov, M. Yu.) Geometric properties of domains of correspondence in "free-Lagrange" methods. (Russian) **89i:65133**

Sommeijer, B. P. *see* **van der Houwen, P. J.; et al., 89h:65206**

Stanev, Kh. I. Numerical-analytic solution of a nonstationary boundary value problem. (Bulgarian. English and Russian summaries) (Not in MR)

Tewarson, R. P. *see* **Hagstrom, T. M.; et al.,** (Not in MR)

Tishkin, V. F. *see* **Solov′ëv, A. V.; et al., 89i:65133**

Twizell, E. H. (*with* Khaliq, A. Q. M.) L_0-stable methods for constant coefficient parabolic equations. **89k:65152**

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Wu, Ji Ke (*with* Li, Hui) A numerical method based on the mean value theorem. (Chinese. English summary) **89j:65082**

Zandbergen, P. J. *see* **Romate, J. E., 89b:65300**

Zhidkov, E. P. *see* **Akishin, P. G.; et al., 89a:65181**

Zhukov, V. T. (*with* Feodoritova, O. B.) Interpolation schemes for the numerical solution of the heat equation. (Russian) **89h:65209**

Items with secondary classifications in 65N99

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Anwar, Mohamed Naim Yehia (*with* Sherief, H. H.) Boundary integral equation formulation of generalized thermoelasticity in a Laplace-transform domain. **89a:73060**

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Bates, R. H. T. *see* **Tan, D. G. H.; et al., 89k:35059**

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Börgers, Christoph (*with* Peskin, Charles S.) A Lagrangian fractional step method for the incompressible Navier-Stokes equations on a periodic domain. **89c:76007**

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Childs, P. N. *see* **Morton, K. W.; et al., (89j:76004)**

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Engquist, Björn (*with* Halpern, Laurence) Far field boundary conditions for computation over long time. **89c:65109**

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Guo, Ben Qi *see* **Babuška, I., 89a:35039**

Halpern, Laurence *see* **Engquist, Björn, 89c:65109**

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Jones, Christopher K. R. T. (*with* Küpper, T.; Plakties, H.) A shooting argument with oscillation for semilinear elliptic radially symmetric equations. **89d:35053**

Knightly, George H. *see* **Cannon, John R., 89e:76037**

Koren, Barry *see* **Hemker, P. W., (89j:76004)**

Küpper, T. *see* **Jones, Christopher K. R. T.; et al., 89d:35053**

Kyazimov, Dzh. K. Approximate solution of the Tricomi problem for nonlinear equations of mixed type. (Russian) **89b:35117**

Le Floch, Philippe *see* **Dubois, François, (89j:35007)**

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Li, Yanyan *see* **Bayliss, Alvin; et al., 89m:65088**

Li, Zi-Cai A note on Kellogg's eigenfunctions of a periodic Sturm-Liouville system. (Not in MR)

Morawetz, Cathleen Synge *see* **Bayliss, Alvin; et al., 89m:65088**

Morton, K. W. (*with* Childs, P. N.; Rudgyard, M. A.) The cell vertex method for steady compressible flow. (*see* **89j:76004**)

Murch, R. D. *see* **Tan, D. G. H.; et al., 89k:35059**

Novichenko, V. N. *see* **Voĭtsekhovskiĭ, S. A., 89a:73043**

Ochs, Robert L., Jr. The limited aperture problem of inverse acoustic scattering: Dirichlet boundary conditions. **89c:35154**

Pan, Zhong Xiong A numerical method for a class of nonlinear fourth order equations. **89f:35084**

Peskin, Charles S. *see* **Börgers, Christoph, 89c:76007**

Plakties, H. *see* **Jones, Christopher K. R. T.; et al., 89d:35053**

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Rudgyard, M. A. *see* **Morton, K. W.; et al., (89j:76004)**

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Shamardan, A. B. *see* **Ibrahim, M. A.-K.; et al., 89b:65233**

Sherief, H. H. *see* **Anwar, Mohamed Naim Yehia, 89a:73060**

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Sinekop, N. S. *see* **Rvachëv, V. L., 89g:65158**

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Yousef, Y. K. *see* **Ibrahim, M. A.-K.; et al., 89b:65233**

Zolésio, J.-P. *see* **Souli, M., 89j:76027**

65P05 Partial differential equations, miscellaneous problems

Adomian, George A. Solving the nonlinear equations of physics. **89k:65153**

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Apel′tsin, V. F. (*with* Yakovleva, S. A.) Numerical analytic preparation for a generalization of a method of representations. **89j:65083**

Banerjee, P. P. *see* **Cao, Guanghui, 89g:65155**

Barton, N. G. *see* **Jackett, D. R., (89b:00021)**

Bekyarov, K. L. *see* **Christov, Christo I., 89g:65156**

Berger, Marsha (*with* Kohn, Robert V.) A rescaling algorithm for the numerical calculation of blowing-up solutions. **89g:65154**

Bristeau, M. O. (*with* Glowinski, R.; Mantel, B.; Périaux, Jacques; Singh, Gian Sundar) On the use of subcycling for solving the compressible Navier-Stokes equations by operator-splitting and finite element methods. **89h:65211**
Cao, Guanghui (*with* Banerjee, P. P.) Interaction of baseband and envelope solitary wave solutions of the nonlinear Klein-Gordon equation with dispersion. **89g:65155**
Chattaraj, P. K. (*with* Rao Koneru, S.; Deb, B. M.) Stability analysis of finite difference schemes for quantum mechanical equations of motion. **89e:65144**
Chen, Sui Yang *see* **Guo, Ben Yu; et al., 89a:65188**
Chen, Yung Ming *see* **Liu, Xi Yuan^1, 89k:65157**
Chernyaev, A. V. *see* **Sadovnikov, A. D., 89a:65191**
Christov, Christo I. (*with* Bekyarov, K. L.) The Fourier method for the calculation of solitons. (Russian. English and Bulgarian summaries) **89g:65156**
Chudanov, V. V. *see* **Goloviznin, V. M.; et al., 89c:65133**
Čiegis, Raimondas *see* **Kanapėnas, Rimantas; et al., 89k:65155**
Cottet, Georges-Henri Convergence of a vortex in cell method for the two-dimensional Euler equations. **89b:65303**
Deb, B. M. *see* **Chattaraj, P. K.; et al., 89e:65144**
Deĭneka, V. S. *see* **Skopetskiĭ, V. V.; et al., 89a:65192**
Dörfer, Joachim H. Treatment of singular perturbation problems with multigrid methods. (*see* **89m:65007**)
Drits, V. V. *see* **Volkov, V. M., 89c:65136**
Evans, David J. *see* **Sanugi, B. B., 89k:65158**
Favorskiĭ, A. P. *see* **Solov′ëv, A. V.; et al., 89k:65160**
Feng, Kang Asymptotic radiation conditions for reduced wave equation. **89f:65134**
Foiaş, Ciprian (*with* Jolly, M. S.; Kevrekidis, I. G.; Sell, George R.; Titi, E. S.) On the computation of inertial manifolds. **89k:65154**
Főrster, Karl Martin An explicit third-order algorithm with Courant number three. **89m:65108**
Fresnel, Christophe *see* **Ansel, Denis; et al., 89b:65302**
Fryazinov, I. V. *see* **Prostomolotov, A. I., 89c:65134**
Fu, De Xun (*with* Ma, Yan Wen) Jacobian matrix splitting methods and numerical computation of aerodynamics equations. (Chinese. English summary) **89i:65134**
Girault, Vivette *see* **Amrouche, Chérif, 89h:65210**
Glowinski, R. *see* **Bristeau, M. O.; et al., 89h:65211**
Goloviznin, V. M. (*with* Samarskaya, E. A.; Chudanov, V. V.) Locally-one-dimensional Rothe schemes for the heat equation in arbitrary curvilinear coordinates. (Russian) **89c:65133**
Guo, Ben Yu (*with* Mitchell, Andrew Ronald; Chen, Sui Yang) On a one-dimensional difference scheme in reaction diffusion. **89a:65188**
Hackbusch, Wolfgang The frequency decomposition multi-grid algorithm. (*see* **89m:65007**)
— (*with* Reusken, A.) On global multigrid convergence for nonlinear problems. (*see* **89m:65007**)
Israeli, Moshe Marching iterative methods for the parabolized and thin layer Navier-Stokes equations. **89b:65304**
Jackett, D. R. (*with* Barton, N. G.) A computational method for the inverse scattering problem for ultrasound. (*see* **89b:00021**)
Jin, Mao Yuan *see* **Zhu, Ben Ren, 89b:65306**
Jolly, M. S. *see* **Foiaş, Ciprian; et al., 89k:65154**
Kanapėnas, Rimantas (*with* Norvaišas, Saulius; Petruškevičius, Raimondas; Čiegis, Raimondas) Numerical solution of a problem of the laser heating of metals. (Russian. English and Lithuanian summaries) **89k:65155**
Kapitanets, P. I. (*with* Lunëv, V. V.) Shock-characteristic method for solving discontinuous gas dynamic problems. (Russian) **89k:65156**
Kevrekidis, I. G. *see* **Foiaş, Ciprian; et al., 89k:65154**
Kikuchi, Fumio Finite element analysis of a nondifferentiable nonlinear problem related to MHD equilibria. **89a:65189**
Klabukova, L. S. A variational-difference method for solving problems of infinitesimal bendings of surfaces of positive curvature. (Russian) **89h:65212**
Kohn, Robert V. *see* **Berger, Marsha, 89g:65154**
Kornilov, I. E. *see* **Kul′chitskiĭ, V. L.; et al., 89m:65109**
Kul′chitskiĭ, V. L. (*with* Kornilov, I. E.; Noga, Yu. V.) ★ Численные методы исследования волновых полей в задачах дифракции и излучения. (Russian) [Numerical methods for the investigation of wave fields in problems of diffraction and radiation] **89m:65109**
Le Roux, Marie-Noëlle *see* **Ansel, Denis; et al., 89b:65302**
Lin, Pei Xiong The construction of global continuous solutions for the isentropic gas dynamics equations. **89a:65190**
Liu, Xi Yuan^1 (*with* Chen, Yung Ming) Convergence of a generalized pulse-spectrum technique (GPST) for inverse problems of 1-D diffusion equations in space-time domain. **89k:65157**
Lunëv, V. V. *see* **Kapitanets, P. I., 89k:65156**
Ma, Yan Wen *see* **Fu, De Xun, 89i:65134**
Mantel, B. *see* **Bristeau, M. O.; et al., 89h:65211**
Mijalković, S. (*with* Stojadinović, N.) Solution of the diffusion equation in VLSI process modeling by a nonlinear multigrid algorithm. (*see* **89c:65007**)
Mitchell, Andrew Ronald *see* **Guo, Ben Yu; et al., 89a:65188**
Mulder, Wim A. Analysis of a multigrid method for the Euler equations of gas dynamics in two dimensions. **89j:65084**
Murphy, K. A. Parameter estimation in moving boundary problems. (Not in MR)
Noga, Yu. V. *see* **Kul′chitskiĭ, V. L.; et al., 89m:65109**
Norbury, John Stable prediction of complicated dynamics with application to weather forecasting. **89f:65135**
Norvaišas, Saulius *see* **Kanapėnas, Rimantas; et al., 89k:65155**
Osher, Stanley *see* **Sethian, James, (89j:35007)**
Park, Wonchull *see* **Reusch, Michael F.; et al., 89g:65157**
Périaux, Jacques *see* **Bristeau, M. O.; et al., 89h:65211**
Petruškevičius, Raimondas *see* **Kanapėnas, Rimantas; et al., 89k:65155**
Pomphrey, Neil *see* **Reusch, Michael F.; et al., 89g:65157**
Prostomolotov, A. I. (*with* Fryazinov, I. V.) Techniques and program realization for solving spatial problems in hydrodynamics. (Russian) **89c:65134**
Pulatov, S. I. *see* **Vabishchevich, P. N., 89g:65160**
Rao Koneru, S. *see* **Chattaraj, P. K.; et al., 89e:65144**
Ratzan, Lee *see* **Reusch, Michael F.; et al., 89g:65157**
Reinig, Karl D. A rapid, backscatter simulation technique for complex B-spline target models. (*see* **89b:00029**)
Reusch, Michael F. (*with* Ratzan, Lee; Pomphrey, Neil; Park, Wonchull) Diagonal Padé approximations for initial value problems. **89g:65157**
Reusken, A. *see* **Hackbusch, Wolfgang, (89m:65007)**
Rvachëv, V. L. (*with* Sinekop, N. S.) Software, based on the theory of R-functions, for boundary value problems in mathematical physics. (Russian) **89g:65158**
Rybachishin, S. I. *see* **Skopetskiĭ, V. V.; et al., 89a:65192**
Sadovnikov, A. D. (*with* Chernyaev, A. V.) Comparison of difference schemes for the modeling of transient processes in bipolar semiconductors. (Russian) **89a:65191**
Samarskaya, E. A. *see* **Goloviznin, V. M.; et al., 89c:65133**
Sanugi, B. B. (*with* Evans, David J.) A Fourier series method for the numerical solution of the nonlinear advection problem. **89k:65158**
Sell, George R. *see* **Foiaş, Ciprian; et al., 89k:65154**
Sethian, James (*with* Osher, Stanley) The design of algorithms for hypersurfaces moving with curvature-dependent speed. (*see* **89j:35007**)
Shashkov, M. Yu. *see* **Solov′ëv, A. V.; et al., 89k:65160**
Sinekop, N. S. *see* **Rvachëv, V. L., 89g:65158**
Singh, Gian Sundar *see* **Bristeau, M. O.; et al., 89h:65211**
Skopetskiĭ, V. V. (*with* Deĭneka, V. S.; Rybachishin, S. I.) Numerical solution of a problem of pressureless filtration based on the discretization of a variational inequality. (Russian) **89a:65192**
Służalec, Andrzej Errors in one-step schemes for solution of the heat flow equation. **89i:65135**
Smirnova, T. V. Difference schemes for calculating the regimes of listing and reading of resonance dynamic holograms. (Russian. English summary) **89k:65159**
Sod, G. A. A dictionary approach to reaction-diffusion systems with nonlinear diffusion coefficients. **89c:65135**
Sofronov, I. L. A rapidly converging method for determining stationary solutions of Euler equations. (Russian) **89g:65159**
Solov′ëv, A. V. (*with* Tishkin, V. F.; Favorskiĭ, A. P.; Shashkov, M. Yu.) Approximation of the continuity equation in the method of "Dirichlet particles". (Russian) **89k:65160**
Spekreijse, Stefan Multigrid solution of the steady Euler equations. **89f:65136**
Stojadinović, N. *see* **Mijalković, S., (89c:65007)**
Tishkin, V. F. *see* **Solov′ëv, A. V.; et al., 89k:65160**
Titi, E. S. *see* **Foiaş, Ciprian; et al., 89k:65154**
Ushakova, O. V. An iterative scheme for solving an equation with a small parameter on an adapting grid. (Russian) (*see* **89h:76002**)
Vabishchevich, P. N. ★ Численные методы решения задач со свободной границей. (Russian) [Numerical methods for solving free boundary problems] **89h:65213**
— (*with* Pulatov, S. I.) An integro-iterative method for solving fundamental boundary value problems in mathematical physics. **89g:65160**
Vakul′chik, P. A. Characteristic difference scheme for a system of equations of three-dimensional gas dynamics. (Russian) **89b:65305**
Volkov, V. M. (*with* Drits, V. V.) Conservative difference methods for solving quasioptical problems. (Russian. English summary) **89c:65136**
Voronina, V. A. A method for constructing the solution of a system of Boltzmann equations for reacting gases. (Russian) **89c:65137**
Yakovlev, V. M. A direct combined algorithm for the numerical solution of the Laplace equation. (Russian) **89a:65193**
Yakovleva, S. A. *see* **Apel′tsin, V. F., 89j:65083**
Zhu, Ben Ren (*with* Jin, Mao Yuan) An explicit scheme for an inverse scattering problem and its stability analysis. **89b:65306**
Zhu, Jiang The characteristic numerical methods for the KdV equation. I. (Chinese. English summary) **89j:65085**

Items with secondary classifications in 65P05

Aleksidze, M. A. ★ Приближенные методы решения прямых и обратных задач гравиметрии. (Russian) [Approximate methods for solving direct and inverse problems of gravimetry] **89k:86008**
Apanovich, Yu. V. (*with* Lyumkis, E. D.) Application of difference schemes on Dirichlet cells for solving problems of heat-mass exchange with phase transitions. (Not in MR)
Arina, R. Adaptive orthogonal curvilinear coordinates. (*see* **89j:76004**)
Bakhvalov, N. S. (*with* Panasenko, G. P.; Štaras, Arūnas; Èglit, M.È.) Numerically asymptotic methods. (Russian) (*see* **89g:00006**)
— (*with* Kobel′kov, G. M.) Efficient numerical methods for solving problems in hydrodynamics. (Russian) (*see* **89j:00008**)
Bamberger, A. (*with* Engquist, Björn; Halpern, Laurence; Joly, Patrick) Parabolic wave equation approximations in heterogenous media. **89h:35225**
— (*with* Engquist, Björn; Halpern, Laurence; Joly, Patrick) Higher order paraxial wave equation approximations in heterogeneous media. **89h:35226**
Barbu, Viorel Approximation of the Hamilton-Jacobi equations via Lie-Trotter product formula. **89m:49046**
Becker, Klaus Multigrid acceleration of a 2D full potential flow solver. **89j:76006**
Bell, J. B. *see* **Szymczak, William G.; et al., 89k:65143**
Belova, M. M. (*with* Moskal′kov, M. N.; Savin, V. G.) Numerical solution of a problem of the radiation of sound by a cylindrical piezovibrator under impulse electric excitation. (Russian) **89d:73049**
Benkhaldoun, F. (*with* Larrouturou, B.) Numerical analysis of the two-dimensional thermodiffusive model for flame propagation. (French summary) **89m:80009**
Berger, A. E. *see* **Szymczak, William G.; et al., 89k:65143**
Brădeanu, Doina (*with* Maksay, St.) A Galerkin approximation solution for heat transfer in thin bars. (Russian) (*see* **89f:00016**)
Brefort, B. (*with* Ghidaglia, Jean-Michel; Temam, Roger) Attractors for the penalized Navier-Stokes equations. **89b:35135**
Browning, G. (*with* Kreiss, Heinz-Otto) Numerical problems connected with weather prediction. **89a:86004**

Bube, Kenneth P. The effect of discontinuities on the order of convergence of numerical inversion methods. **89d:86004**

Bukhgeĭm, A. L. ★ Введение в теорию обратных задач. (Russian) [Introduction to the theory of inverse problems] **89i:35127**

Burguera, M. (*with* Viaño Rey, Juan M.) A numerical method for the unilateral contact problem with perfect plasticity. **89i:73069**

Cahouet, J. (*with* Chabard, J.-P.) Some fast 3D finite element solvers for the generalized Stokes problem. **89i:76005**

Cecot, W. (*with* Orkisz, J.) On coupling of the boundary element and R-function methods. **89k:65133**

Chabard, J.-P. *see* **Cahouet, J., 89i:76005**

Chacón Rebollo, Tomás Invariance group of the periodic Euler problem. (Spanish) **89j:35106**

Chevalier, Jacques Sur le calcul des contraintes thermiques en service. (English summary) [Calculating operational thermal stresses] **89m:80001**

Colton, David Optimal methods for determining the shape of an obstacle. **89m:76057**

Cordova, Jeffrey Q. (*with* Pearson, Carl E.) On a modified streamline curvature method for the Euler equations. **89h:76023**

Dáng Dình Áng (*with* Keinert, F.; Stenger, Frank) A nonlinear two-phase Stefan problem with melting point gradient: a constructive approach. **89h:35350**

Degtyarev, L. M. (*with* Drozdov, V. V.; Poshekhonov, Yu. Yu.) A discrete model of the three-dimensional magnetohydrodynamic equilibrium of a plasma on arbitrary curvilinear grids. (Russian) **89a:76056**

Dezin, A. A. The two-dimensional Abel transform and applications. (Russian) (*see* **89j:00030**)

Domaradzki, J. Andrzej (*with* Orszag, Steven A.) Numerical solutions of the direct interaction approximation equations for anisotropic turbulence. **89c:76070**

Drozdov, V. V. *see* **Degtyarev, L. M.; et al., 89a:76056**

Du, Xun On the stability of finite difference method for solving three-dimensional unsteady gasdynamic equations with artificial viscosity terms. **89i:76008**

Èglit, M.È. *see* **Bakhvalov, N. S.; et al.,** (**89g:00006**)

Eldén, Lars Some remarks on algebraic inverse problems. (*see* **89m:65008**)

Elenin, G. G. (*with* Lysak, T. M.) Dissipative structures in a model reaction of the oxidation of carbon monoxide. **89i:92075**

Engquist, Björn *see* **Bamberger, A.; et al., 89h:35225** *and* **89h:35226**

Eydeland, Alexander (*with* Turkington, Bruce) A computational method of solving free-boundary problems in vortex dynamics. **89j:76037**

Fernandez, Gilles (*with* Larrouturou, B.) Hyperbolic schemes for multi-component Euler equations. (*see* **89j:35007**)

Ferro Fontán, Constantino *see* **Ponce Dawson, Silvina, 89c:81007**

Fix, G. J. (*with* Lin, Jian-Tong) Numerical simulations of nonlinear phase transitions. I. The isotropic case. **89h:80009**

Fryazinov, I. V. *see* **Goncharov, A. L., 89j:76013**

Ghidaglia, Jean-Michel *see* **Brefort, B.; et al., 89b:35135**

Goldstein, Charles I. Multigrid preconditioners applied to three-dimensional parabolic equation type models. **89b:76021**

Goncharov, A. L. (*with* Fryazinov, I. V.) Difference schemes on a 13-point pattern and schemes with local monotonization on irregular grids for two-dimensional Navier-Stokes equations. (Russian) **89j:76013**

Grigorenko, Ya. M. (*with* Kryukov, N. N.) ★ Численное решение задач статики гибких слоистых оболочек с переменными параметрами. (Russian) [Numerical solution of problems of the statics of flexible layered shells with variable parameters] **89j:73086**

(Haario, H.) *see* **Theory and applications of inverse problems, 89c:00029**

Ha-Duong, T. Space-time variational formulas and calculations of retarded potential. (*see* **89f:65003**)

Halpern, Laurence *see* **Bamberger, A.; et al., 89h:35225** *and* **89h:35226**

Hemker, P. W. A nonlinear multigrid method for one-dimensional semiconductor device simulation. (*see* **89j:65008**)

Il'in, A. V. *see* **Rivkind, V. Ya., 89j:76040**

Joly, Patrick *see* **Bamberger, A.; et al., 89h:35225** *and* **89h:35226**

Jones, A. S. Quadratic eigenvalue problems. **89g:76040**

Kabanikhin, S. I. Regularization of multidimensional inverse problems for hyperbolic equations on the basis of a projection method. (Russian) **89f:65131**

Kandil, O. A. *see* **Liu, Chen-Huei; et al.,** (Not in MR)

Keinert, F. *see* **Dáng Dình Áng; et al., 89h:35350**

Kim, V. F. ★ Две неявные схемы для численного решения задач баротропной атмосферы. (Russian) [Two implicit schemes for the numerical solution of barotropic atmosphere problems] **89f:86012**

Kobel'kov, G. M. *see* **Bakhvalov, N. S.,** (**89j:00008**)

Kohn, Robert V. (*with* Vogelius, Michael) Relaxation of a variational method for impedance computed tomography. **89h:35339**

Kreiss, Heinz-Otto *see* **Browning, G., 89a:86004**

Kryukov, N. N. *see* **Grigorenko, Ya. M., 89j:73086**

Lafon, André Attracteurs pour les équations de Navier-Stokes bidimensionnelles. [Attractors for two-dimensional Navier-Stokes equations] **89h:35263**

Lamm, Patricia K. (*with* Murphy, K. A.) Estimation of discontinuous coefficients and boundary parameters for hyperbolic systems. **89d:35110**

Larrouturou, B. *see* **Benkhaldoun, F., 89m:80009** *and* **Fernandez, Gilles,** (**89j:35007**)

Leaf, G. K. *see* **Thompson, C. P.; et al., 89f:76013**

Lee, Ding *see* **Saad, Y., 89d:76028**

Lin, Jian-Tong *see* **Fix, G. J., 89h:80009**

Lipanov, A. M. A trajectory method for solving systems of transcendental equations. **89k:65065**

Liu, Chen-Huei (*with* Wong, T. C.; Kandil, O. A.) Separation-bubble flow solution using Euler/Navier-Stokes zonal approach with downstream compatibility conditions. (Not in MR)

Liu, Meng-Ru *see* **Malkus, David S.; et al., 89d:73038**

Lukshin, An. V. (*with* Smirnov, S. N.) A stochastic algorithm for solving the Boltzmann equation on the basis of the Euler method. (Russian) **89d:65118**

Lysak, T. M. *see* **Elenin, G. G., 89i:92075**

Lyumkis, E. D. *see* **Apanovich, Yu. V.,** (Not in MR)

Maksay, St. *see* **Brădeanu, Doina,** (**89f:00016**)

Malkus, David S. (*with* Plesha, Michael E.; Liu, Meng-Ru) Reversed stability conditions in transient finite element analysis. **89d:73038**

Marcati, Pierangelo Approximate solutions to conservation laws via convective parabolic equations: analytical and numerical results. **89e:35095**

— Approximate solutions to conservation laws via convective parabolic equations. **89e:35094**

Marchuk, G. I. (*with* Sarkisyan, A. S.) ★ Математическое моделирование циркуляции океана. (Russian) [Mathematical modeling of oceanic circulation] **89m:86003**

Mas-Gallic, S. (*with* Poupaud, F.) Approximation of the transport equation by a weighted particle method. **89i:82109**

Mitropol'skiĭ, Yu. A. (*with* Rogovchenko, S. P.) Application of the averaging method to the study of hyperbolic sampled-data systems. (Russian) **89k:35155**

Moskal'kov, M. N. *see* **Belova, M. M.; et al., 89d:73049**

Murphy, K. A. *see* **Lamm, Patricia K., 89d:35110**

Neittaanmäki, Pekka (*with* Tiba, D.) On the approximation of the boundary control in two-phase Stefan-type problems. (Russian and Polish summaries) **89j:49025**

Nelson, Paul, Jr. Adomian's method of decomposition: critical review and examples of failure. **89k:35012**

Orkisz, J. *see* **Cecot, W., 89k:65133**

Orszag, Steven A. *see* **Domaradzki, J. Andrzej, 89c:76070**

Özden, Kemal Transformation of the method of weighted residuals to a variational principle and its application in the finite element method with mixed elements. (Turkish summary) **89g:73006**

Panasenko, G. P. *see* **Bakhvalov, N. S.; et al.,** (**89g:00006**)

Patiño, Jorge A fully implicit scheme for multiphase flow in one-dimensional porous media. **89k:76090**

Pearson, Carl E. *see* **Cordova, Jeffrey Q., 89h:76023**

Plesha, Michael E. *see* **Malkus, David S.; et al., 89d:73038**

Ponce Dawson, Silvina (*with* Ferro Fontán, Constantino) Extension of the Ablowitz-Ladik method to the derivative nonlinear Schrödinger equation. **89c:81007**

Popescu, Ioan Contributions to the generalization of the problem of adjustment by Helmert-Pranis-Praniewich groups. (Spanish. English summary) **89m:86021**

Poshekhonov, Yu. Yu. *see* **Degtyarev, L. M.; et al., 89a:76056**

Poupaud, F. *see* **Mas-Gallic, S., 89i:82109**

Pronkin, Yu. N. ★ Численное исследование уравнений Тимошенко-Рейсснера в теории тонких упругих пластин. (Russian) [Numerical investigation of the Timoshenko-Reissner equations in the theory of thin elastic plates] **89b:73023**

Rajaraman, V. *see* **Siva Ram Murthy, C.,** (Not in MR)

Ramm, A. G. Numerical method for solving 3D inverse problems of geophysics. **89j:86003**

Rivkind, V. Ya. (*with* Il'in, A. V.) An approximate method for solving a problem of the nonisothermic flow of a fluid layer. (Russian) **89j:76040**

Rogovchenko, S. P. *see* **Mitropol'skiĭ, Yu. A., 89k:35155**

Saad, Y. (*with* Lee, Ding) A new algorithm for solving the wide angle wave equation. **89d:76028**

Sacks, Paul E. The inverse problem for a weakly inhomogeneous two-dimensional acoustic medium. **89g:73019**

Sadykov, M. K. Construction and investigation of difference schemes for solving a boundary value problem of nonlinear filtration in cracked-porous media. (Russian) **89h:76041**

Sarkisyan, A. S. *see* **Marchuk, G. I., 89m:86003**

Savel'ev, A. D. (*with* Tolstykh, A. I.) Algorithms for the calculation of viscous gas flows based on third-order compact approximations. (Russian) **89a:76006**

Savin, V. G. *see* **Belova, M. M.; et al., 89d:73049**

Sen, Asok K. An application of the Adomian decomposition method to the transient behavior of a model biochemical reaction. **89a:92026**

Serrano, Sergio E. (*with* Unny, T. E.) Boundary element solution of the two-dimensional groundwater flow equation with stochastic free surface boundary condition. **89a:76007**

Shchukina, I. *see* **Vakul'chik, P. A., 89c:80002**

She, Z.-S. *see* **Yakhot, Victor, 89d:35173**

Siva Ram Murthy, C. (*with* Rajaraman, V.) A multiprocessor architecture for solving nonlinear partial differential equations. (Not in MR)

Sloan, D. M. On modulational instabilities in discretisations of the Korteweg-de Vries equation. **89k:76008**

Smagulov, Sh. (*with* Zhanasbaeva, U. B.) Estimates for the solution of a difference scheme for an equation of a barotropic gas with variable viscosity. **89f:76062**

Smirnov, S. N. *see* **Lukshin, An. V., 89d:65118**

Solomon, J. M. *see* **Szymczak, William G.; et al., 89k:65143**

Song, Tian Xia The weighted residual method for composite structures. (Chinese. English summary) **89f:00044**

Štaras, Arūnas *see* **Bakhvalov, N. S.; et al.,** (**89g:00006**)

Stenger, Frank *see* **Dáng Dình Áng; et al., 89h:35350**

Swart, J. H. Hopf bifurcation and the stability of nonlinear age-dependent population models. **89g:92052**

Szymczak, William G. (*with* Solomon, J. M.; Berger, A. E.; Bell, J. B.) Multiple discrete solutions of the incompressible steady-state Navier-Stokes equations. **89k:65143**

Temam, Roger *see* **Brefort, B.; et al., 89b:35135**

Thompson, C. P. (*with* Leaf, G. K.; Vanka, S. P.) Application of a multigrid method to a buoyancy-induced flow problem. **89f:76013**

Tiba, D. *see* **Neittaanmäki, Pekka, 89j:49025**

Tkachenko, S. I. A difference scheme of second order of accuracy for equations of gas dynamics for the compatible approximation of convective flows. **89h:76007**

Tolstykh, A. I. *see* **Savel'ev, A. D., 89a:76006**

Turkington, Bruce *see* **Eydeland, Alexander, 89j:76037**

Unny, T. E. *see* **Serrano, Sergio E., 89a:76007**

Vakul'chik, P. A. (*with* Shchukina, I.) Convergence of an implicit difference scheme for the pulse heating of a rotating cylindrical body. (Russian. English summary) **89c:80002**

Vanka, S. P. *see* **Thompson, C. P.; et al., 89f:76013**

Vasin, V. V. On a justification for the projection-grid method and for the numerical procedures for stationary problems in thermoelasticity. (Russian) **89m:73004**

Viaño Rey, Juan M. *see* **Burguera, M., 89i:73069**
Vogelius, Michael *see* **Kohn, Robert V., 89h:35339**
Wiberg, Nils-Erik Adaptive and hierarchical weighted residual and least-squares time integration of convection-diffusion problems. **89e:76075**
Wong, T. C. *see* **Liu, Chen-Huei; et al.,** (Not in MR)
Yagle, A. E. Differential and integral methods for three-dimensional inverse scattering problems with a nonlocal potential. **89i:81138**
Yakhot, Victor (*with* She, Z.-S.) Long-time, large-scale properties of the random-force-driven Burgers equation. **89d:35173**
Zhanasbaeva, U. B. *see* **Smagulov, Sh., 89f:76062**
Zijl, Wouter Generalized potential flow theory and direct calculation of velocities applied to the numerical solution of the Navier-Stokes and the Boussinesq equations. **89c:76047**

Items listed otherwise than by author

Helsinki ★ Theory and applications of inverse problems. **89c:00029**
Symposium:
Theory and Applications of Inverse Problems ★ Theory and applications of inverse problems. **89c:00029**
Theory and applications of inverse problems ★ Theory and applications of inverse problems. **89c:00029**

65Q05 Difference and functional equations, recurrence relations

Baĭnov, D. D. *see* **Khristova, S. G., 89m:65110**
Chen, Zeng Rong Problem-decomposition and structural recursion. (Chinese. English summary) **89e:65145**
Hou, Luo Ming The best parallel algorithm for solving the regular linear iterative sequence. (Chinese. English summary) **89h:65214**
Jackiewicz, Zdzisław Variable-step variable-order algorithm for the numerical solution of neutral functional-differential equations. **89b:65307**
Khristova, S. G. (*with* Baĭnov, D. D.) Numeric-analytic method for finding the periodic solutions of nonlinear differential-difference equations with impulses. (German summary) **89m:65110**
Kril′, S. A. Solution of integro-difference equations with a small nonlinearity by a projection-iterative method. (Russian) **89d:65106**
Kuznetsov, I. B. ★ Параллельные формы алгоритма для решения рекурсивных задач. (Russian) [Parallel forms of an algorithm for solving recursive problems] **89j:65086**
Olver, F. W. J. Error bounds for linear recurrence relations. **89e:65146**
Petrovich, V. Yu. Numerical solution of a functional equation of a special type. (Russian. English summary) **89h:65215**
Vadillo, Fernando A study of the recurrence $Y_{n+1} = Y_{n-1} + 2kY_n^m$. (Spanish. English summary) **89g:65161**
Zhang, Bao Lin¹ Parallel algorithms for linear recurrence problems. (Chinese. English summary) **89i:65136**

Items with secondary classifications in 65Q05

Agarwal, Ravi Prakash *see* **Usmani, Riaz A., 89j:65058**
Ch'ên, Ch'i Chung *see* **Huang, Ch'i; et al., 89k:93140**
Cloot, A. (*with* Herbst, B. M.) Grid resonances, focusing and Benjamin-Feir instabilities in leapfrog time discretizations. **89e:65096**
Herbst, B. M. *see* **Cloot, A., 89e:65096**
Huang, Ch'i (*with* Ch'ên, Ch'i Chung; Shih, Yen P'ing) Analysis and optimal control of discrete time-varying systems via Hahn polynomials. (Chinese summary) **89k:93140**
Kimura, Morishige Convergence of the doubling algorithm for the discrete-time algebraic Riccati equation. **89j:93040**
Kril′, S. A. *see* **Luchka, A. Yu., 89e:65153**
Lakshmikantham, V. (*with* Trigiante, D.) ★ Theory of difference equations. **89g:39003**
Luchka, A. Yu. (*with* Kril′, S. A.) Construction of approximate solutions of linear integro-difference equations. (Russian) **89e:65153**
Martynyuk, D. I. (*with* Yurchik, A. I.) Solution of a periodic control problem for a system of difference equations by a method of two-sided approximations. (Russian) **89d:49039**
Mazel′, M. Kh. Convergence properties of Green's function for difference approximations of linear functional-differential equations. (Russian) (Not in MR)
Miao, Shu Mei Asymptotic expansions of solutions of initial value problems for singularly perturbed differential-difference equations. (Chinese. English summary) **89e:34130**
Mickens, R. E. Mathematical modeling of differential equations by difference equations. **89c:65093**
Shih, Yen P'ing *see* **Huang, Ch'i; et al., 89k:93140**
Trigiante, D. *see* **Lakshmikantham, V., 89g:39003**
Usmani, Riaz A. (*with* Agarwal, Ravi Prakash) On the numerical solution of two-point discrete boundary value problems. **89j:65058**
Wu, Qi Guang A new asymptotic method for singular perturbation problems of difference equations. (*see* **89j:65008**)
Yang, En Hao On some new discrete generalizations of Gronwall's inequality. **89c:26036**
Yurchik, A. I. *see* **Martynyuk, D. I., 89d:49039**

65Rxx Integral equations, integral transforms [see also 45Lxx]

Items with secondary classifications in 65Rxx

Bertero, M. (*with* Brianzi, P.; Pike, E. R.; Rebolia, L.) Linear regularizing algorithms for positive solutions of linear inverse problems. **89e:65053**
Brianzi, P. *see* **Bertero, M.; et al., 89e:65053**
Pike, E. R. *see* **Bertero, M.; et al., 89e:65053**
Rebolia, L. *see* **Bertero, M.; et al., 89e:65053**

65R10 Integral transforms

Adhami, Reza (*with* Polge, Robert J.) Fast Fourier transformation based on number-theoretic transforms. **89f:65137**
Altmann, Jürgen On the digital implementation of the rotation-invariant Fourier-Mellin transform. (German and Russian summaries) **89c:65138**
Bakushinskiĭ, A. B. (*with* Goncharskiĭ, A. V.; Levitan, S. Yu.) Fast linear iterative algorithms for the restoration of images. (Russian) **89j:65087**
Gaponenko, Yu. L. (*with* Nikolaev, I. V.) On the accuracy of the reconstruction of a piecewise-continuous velocity function of a medium from an approximately given vertical hodograph. **89a:65194**
Garbow, B. S. (*with* Giunta, G.; Lyness, J. N.; Murli, A.) Software for an implementation of Weeks' method for the inverse Laplace transform problem. **89d:65107**
Giunta, G. *see* **Garbow, B. S.; et al., 89d:65107**
Goncharskiĭ, A. V. *see* **Bakushinskiĭ, A. B.; et al., 89j:65087**
Iqbal, M. Numerical Laplace transform inversion by a regularization method. **89g:65162**
— Numerical inversion of Laplace transforms using cross-validation method. (Not in MR)
van Iseghem, Jeannette Laplace transform inversion and Padé-type approximants. **89i:65137**
Kalinin, S. I. *see* **Vasil′ev, V. I., 89a:65195**
Kruse, Hermann (*with* Natterer, Frank) A direct algebraic algorithm in computerized tomography. **89b:65308**
Levitan, S. Yu. *see* **Bakushinskiĭ, A. B.; et al., 89j:65087**
Lyness, J. N. *see* **Garbow, B. S.; et al., 89d:65107**
Medvedskiĭ, R. I. A numerical method for the inversion of the Laplace transform of convex functions. (Russian) **89h:65216**
Migneron, R. (*with* Narayanan, K. S. S.) Numerical inversion of Mellin moments and Laplace transforms. **89e:65147**
Murli, A. *see* **Garbow, B. S.; et al., 89d:65107**
Narayanan, K. S. S. *see* **Migneron, R., 89e:65147**
Natterer, Frank *see* **Kruse, Hermann, 89b:65308**
Nikolaev, I. V. *see* **Gaponenko, Yu. L., 89a:65194**
Polge, Robert J. *see* **Adhami, Reza, 89f:65137**
Rieder, Georg On the spectrum of certain integral operators and its utilization for BEM in elasticity. (*see* **89f:65003**)
Rokhlin, Vladimir V. A fast algorithm for the discrete Laplace transformation. **89b:65309**
Vasil′ev, V. I. (*with* Kalinin, S. I.) On the problem of the calculation of the maximum of a pre-image from a given image. (Russian) **89a:65195**

Items with secondary classifications in 65R10

Araki, Kiyomichi Sampling and recovery formula in finite Hankel transform based on the minimum-norm principle. **89h:94003**
Arsenin, V. Ya. *see* **Tikhonov, A. N.; et al., 89i:44008**
Gindikin, S. G. *see* **Vvedenskaya, N. D., 89i:44010**
Kak, A. C. (*with* Roberts, B. A.) Reconstruction from projections: applications in computerized tomography. **89e:92006**
Longman, I. M. Complementary moments and the summation of series. **89b:65015**
Matúš, František The L^2-optimality convolving functions in reconstruction convolution algorithms. **89d:92015**
Matvienko, A. N. Analytic continuation of the Fourier transforms of compactly supported functions. **89m:42006**
Okamoto, Hisashi Applications of the Fourier transform to the boundary element method. **89h:65185**
Quinto, Eric Todd Tomographic reconstructions from incomplete data—numerical inversion of the exterior Radon transform. **89k:44010**
Radvanskiĭ, S. L. *see* **Tarasenko-Zelenaya, L. I.; et al., 89g:44003**
Roberts, B. A. *see* **Kak, A. C., 89e:92006**
Roch, S. (*with* Silbermann, Bernd) Finite sections of singular integral operators with Carleman shift. **89h:47080**
Silbermann, Bernd *see* **Roch, S., 89h:47080**
Sonnevend, Gy. Sequential, stable and low complexity methods for the solution of moment (mass recovery) problems. **89h:65095**
Tarasenko-Zelenaya, L. I. (*with* Zavarin, A. N.; Radvanskiĭ, S. L.) High-frequency kernel in an algorithm for the reconstruction of a function from projections for divergent rays. **89g:44003**
Tikhonov, A. N. (*with* Arsenin, V. Ya.; Timonov, A. A.) ★ Математические задачи компьютерной томографии. (Russian) [Mathematical problems in computer tomography] **89i:44008**
Timonov, A. A. *see* **Tikhonov, A. N.; et al., 89i:44008**
Vvedenskaya, N. D. (*with* Gindikin, S. G.) Image reconstruction based on the Poisson formula for the Radon transform. (Russian) **89i:44010**
Zavarin, A. N. *see* **Tarasenko-Zelenaya, L. I.; et al., 89g:44003**

65R20 Integral equations

Adamczyk, T. *see* **Burczyński, T.,** (**89f:65003**)
Afendikova, N. G. Numerical solution of a singular integral equation of the first kind with a multiple integral with Hilbert kernels. **89e:65148**
Aguilar, Marco Angel (*with* Brunner, H.) Collocation methods for second-order Volterra integro-differential equations. **89m:65111**
Aliabadi, M. H. (*with* Hall, W. S.; Phemister, T. G.) Taylor expansions in the boundary element method for Neumann problems. (*see* **89f:65003**)
Apartsin, A. S. Discretization methods for the regularization of some integral equations of the first kind. (Russian) **89a:65196**
Atkinson, Kendall E. (*with* Graham, I. G.) An iterative variant of the Nyström method for boundary integral equations on nonsmooth boundaries. (*see* **89c:65004**)
Badalov, F. B. (*with* Khuzhayarov, N. Yu.) A method for the exact solution of integro-differential equations of dynamic problems of the linear theory of viscoelasticity. **89i:65138**
Bakke, V. L. (*with* Jackiewicz, Zdzisław) Stability of numerical methods for Volterra integro-differential equations of convolution type. (German and Russian summaries)

89a:65197

Bialecki, Bernard (*with* Stenger, Frank) Sinc-Nyström method for numerical solution of one-dimensional Cauchy singular integral equation given on a smooth arc in the complex plane. **89g:65163**

Bīlonosov, S. M. Analysis of the solvability of Fredholm boundary integral equations of the second kind in the classical problem of the torsion of an elastic body of revolution. (Russian) **89b:65310**

Blom, J. G. (*with* Brunner, H.) The numerical solution of nonlinear Volterra integral equations of the second kind by collocation and iterated collocation methods. **89f:65138**

Boznyak, L. S. Solution of a nonlinear singular integral equation with a Hilbert kernel by the projection-iterative method. (Russian) **89a:65198**

Brunner, H. Polynomial spline collocation methods for Volterra integrodifferential equations with weakly singular kernels. **89h:65217**

— Collocation methods for one-dimensional Fredholm and Volterra integral equations. **89m:65112**

— The numerical solution of initial value problems for integro-differential equations. **89j:65088**

— The approximate solution of initial-value problems for general Volterra integro-differential equations. (German summary) **89f:65139**

— *see also* **Blom, J. G., 89f:65138** *and* **Aguilar, Marco Angel, 89m:65111**

Burczyński, T. (*with* Adamczyk, T.) Boundary element method for shape design synthesis of elastic structures. (*see* **89f:65003**)

Butomo, V. N. Numerical solution of an integral equation with a logarithmic singularity in the kernel. (Russian) (Not in MR)

Chandler, G. A. (*with* Graham, I. G.) The convergence of Nyström methods for Wiener-Hopf equations. **89j:65089**

Chang, Jung Yū *see* **Wang, Mao Ling; et al., 89m:65117**

Colombo, V. *see* **Monegato, G., 89g:65169**

Costabel, M. (*with* Ervin, V. J.; Stephan, E. P.) On the convergence of collocation methods for Symm's integral equation on open curves. **89h:65218**

Cuminato, J. A. On the uniform convergence of a collocation method for a class of singular integral equations. **89i:65139a**

— Erratum: "On the uniform convergence of a collocation method for a class of singular integral equations". **89i:65139b**

Delves, L. M. (*with* Mohamed, J. L.) ★ Computational methods for integral equations. **89b:65311**

Diao, Zai Yun A linear programming method for solving Fredholm integral equations of the first kind. (Chinese. English summary) **89j:65090**

Dīdik, B. V. *see* **Luchka, A. Yu.; et al., 89f:65144**

Dīdik, V. Yu. *see* **Luchka, A. Yu.; et al., 89f:65144**

Eggermont, Paul P. B. On Galerkin methods for Abel-type integral equations. **89k:65161**

El-Gendi, S. E. (*with* Ibrahim, M. A.-K.; Shamardan, A. B.) The numerical treatment of a singular integro-differential equation arising from the diffusion of discrete particles in a turbulent fluid. **89e:65149**

Elschner, Johannes On spline collocation for singular integral equations on an interval. **89f:65140**

— On spline approximation for a class of integral equations. III. Collocation methods with piecewise linear splines. **89d:65108**

— On spline approximation for a class of integral equations. I. Galerkin and collocation methods with piecewise polynomials. **89m:65113**

Ervin, V. J. *see* **Costabel, M.; et al., 89h:65218**

Eyre, D. *see* **Pretorius, L., 89d:65112**

Gähler, S. Discrete convergence and applications to integral equations on the half line. **89h:65219**

Garey, L. E. (*with* Shaw, R. E.) Numerical methods and roots of the solution for singular integro-differential equations. **89i:65140**

— (*with* Shaw, R. E.) Multistep methods for second order Volterra integro-differential equations. **89g:65164**

— *see also* **Shaw, R. E., 89b:65318**

Golberg, Michael A. A note on a superconvergence result for the generalized airfoil equation. **89f:65141**

— The perturbed Galerkin method for Cauchy singular integral equations with constant coefficients. **89m:65114**

Graham, I. G. *see* **Chandler, G. A., 89j:65089** *and* **Atkinson, Kendall E., (89c:65004)**

Grigorieff, Rolf Dieter Some stability inequalities for compact finite difference schemes. **89g:65165**

Guacaneme, Julio E. On optimal convergence for regularized Tikhonov approximations. **89h:65220**

Guseĭnov, È. A. Applications of the method of spline functions to the solution of an integral equation of the first kind with a logarithmic singularity in the kernel. (Russian) **89b:65312**

Haario, H. (*with* Somersalo, E.) The Backus-Gilbert method revisited: background, implementation and examples. **89h:65221**

Hackbusch, Wolfgang (*with* Nowak, Z. P.) On the fast matrix multiplication in the boundary element method by panel clustering. **89k:65162**

Hairer, E. (*with* Lubich, C.; Schlichte, M.) Fast numerical solution of weakly singular Volterra integral equations. **89g:65166**

Hall, W. S. *see* **Aliabadi, M. H.; et al., (89f:65003)**

Hao, Shou Application of the regularization method to the numerical solution of Abel's integral equation. II. **89b:65313**

Ibrahim, M. A.-K. *see* **El-Gendi, S. E.; et al., 89e:65149**

Ioakimidis, Nikolaos I. The successive approximations method for the airfoil equation. **89e:65150**

Jackiewicz, Zdzisław *see* **Bakke, V. L., 89a:65197**

Jhang, Chang Hun (*with* Kim, Yong Ryol) Research on numerical method for nonlinear multidimension integral equation of Uryson type. (Korean. English summary) (Not in MR)

Kamiya, Norio (*with* Sawaki, Y.) An efficient BEM for some inhomogeneous and nonlinear problems. (*see* **89f:65003**)

Karkarashvili, G. S. An integro-differential equation of Fredholm type. (Russian) **89h:65222**

— *see also* **Makarov, Vladimir Leonidovich, 89d:65111**

Khaĭrullin, R. Kh. Estimation of functionals from the solutions of homogeneous integral equations by the Monte Carlo method. (Russian) **89d:65109**

Khoromskiĭ, B. N. *see* **Zhidkov, E. P., 89e:65159** *and* **89h:65227**

Khuzhayarov, N. Yu. *see* **Badalov, F. B., 89i:65138**

Kim, Chon Ul On the approximate solving of stochastic integral equation with jump component. (Korean. English summary) **89d:65110**

Kim, Yong Ryol *see* **Jhang, Chang Hun**, (Not in MR)

Koch, I. (*with* Tarlowski, C. Z.) An analysis of solution techniques for the magnetic relief equation and the equation of downward continuation. **89e:65151**

Kostova, T. V. Numerical solutions of a hyperbolic differential-integral equation. **89m:65115**

Kril′, S. A. *see* **Luchka, A. Yu., 89e:65153**

Kumar, Sunil Superconvergence of a collocation-type method for simple turning points of Hammerstein equations. **89c:65139**

— A discrete collocation-type method for Hammerstein equations. **89e:65152**

Kurosu, Takashi A method using a trial function with unknowns to solve approximately Fredholm integral equations of the first kind. **89i:65141**

Ladopoulos, E. G. On the numerical solution of the multi-dimensional singular integrals and integral equations, used in the theory of linear viscoelasticity. **89f:65142**

Leonov, A. I. Spline methods for solving a class of integro-differential equations. (Russian) **89f:65143**

Lifanov, I. K. Numerical solution of singular Hilbert integral equations with a strong singularity. (Russian) (*see* **89g:65006**)

Lubich, C. A stability analysis of convolution quadratures for Abel-Volterra integral equations. **89k:65163**

— *see also* **Hairer, E.; et al., 89g:65166**

Luchka, A. Yu. A method of projection-iteration type for solving nonlinear Volterra integral equations. (Russian) **89g:65167**

— (*with* Kril′, S. A.) Construction of approximate solutions of linear integro-difference equations. (Russian) **89e:65153**

— (*with* Dīdik, V. Yu.; Dīdik, B. V.) Solution of linear Volterra integral equations of the second kind by a projection-iteration method. **89f:65144**

Lukas, M. A. Assessing regularised solutions. **89g:65168**

— Convergence rates for regularized solutions. **89h:65223**

Lusikka, I. (*with* Saranen, J.) Some remarks on the influence of numerical integration to boundary integral equations. **89m:65116**

Makarov, Vladimir Leonidovich (*with* Karkarashvili, G. S.) Solution of integral equations in fractional Sobolev spaces. (Russian) **89d:65111**

Medhin, Negash G. (*with* Sambandham, M.) Numerical solution of a system of random Volterra integral equations. I. Successive approximation method. **89e:65154**

Meleshko, I. N. Application of first-degree splines to the approximate solution of a singular integro-differential equation. **89e:65155**

Micke, A. (*with* Wendt, Werner) Über die Lösung von eindimensionalen Modellgleichungen des Ladungsträgertransportes in Halbleitern mit einer Quadraturformelmethode. (English and Russian summaries) [On the solution of one-dimensional model equations of the carrier transport in semiconductors using quadrature methods] **89a:65199**

Mikhaĭlov, G. A. Monte Carlo methods and perturbation theory. **89e:65156**

Mohamed, J. L. *see* **Delves, L. M., 89b:65311**

Mokin, Yu. I. Direct and iterative methods for solving integral equations of potential theory. (Russian) **89j:65091**

Monegato, G. (*with* Colombo, V.) Erratum: "Product integration for the linear transport equation in slab geometry" [Numer. Math. 52 (1988), no. 2, 219–240; MR 88k:65133]. **89g:65169**

Moret, Igor (*with* Omari, Pierpaolo) Iterative solution of integral equations by a quasi-Newton method. **89a:65200**

Murio, D. A. (*with* Roth, C. C.) An integral solution for the inverse heat conduction problem after the method of Weber. (Not in MR)

Musaev, B. I. Approximate solution of singular integral equations. (Russian. English and Azerbaijani summaries) **89b:65314**

— Approximate solution of singular integral equations with a negative index by a mechanical quadrature method. **89g:65170**

Noreddin, M. M. (*with* Tikhonenko, N. Ya.) Approximate solution of singular integral equations of the first kind by the method of orthogonal polynomials. **89e:65157**

Normuratov, Kh. An algorithm for the solution of an initialization problem for linear systems of integro-differential equations. (Russian) **89h:65224**

Noshchenko, O. È. An algorithm for solving integral equations by a variational-gradient method on a computer with parallel organization of computations. (Russian) **89f:65145**

Nowak, Z. P. *see* **Hackbusch, Wolfgang, 89k:65162**

Omari, Pierpaolo *see* **Moret, Igor, 89a:65200**

Panagiotopoulos, P. D. Boundary integral "equation" methods for the Signorini-Fichera problem. (*see* **89f:65003**)

Papukashvili, N. R. Convergence of a method for solving integral equations of the first kind. (Russian. English and Georgian summaries) **89f:65146**

Pereverzev, S. V. On the optimal choice of basis functions in the projection-iterative method for solving integral equations. (Russian) **89e:65158**

Phemister, T. G. *see* **Aliabadi, M. H.; et al., (89f:65003)**

Polishchuk, A. D. ★ О численном решении интегральных уравнений теории потенциала. (Russian) [Numerical solution of integral equations of potential theory] **89b:65315**

— ★ О сходимости проекционных методов решения интегральных уравнений теории потенциала. (Russian) [Convergence of projection methods for the solution of integral equations in potential theory] **89k:65164**

Porath, Günter Die Methode der alternierenden Richtungen für lineare Integralgleichungen 1. Art. (English and Russian summaries) [The method of alternating directions for linear integral equations of the first kind] **89b:65316**

Pretorius, L. (*with* Eyre, D.) Spline-Gauss rules and the Nyström method for solving integral equations in quantum scattering. **89d:65112**

Prössdorf, S. (*with* Szyszka, U.) On spline collocation of singular integral equations on nonuniform meshes. **89f:65147**

— (*with* Rathsfeld, A.) Stabilitätskriterien für Näherungsverfahren bei singulären Integralgleichungen in L^p. (English and Russian summaries) [Stability criteria for approximation methods for singular integral equations in L^p] **89b:65317**

Rathsfeld, A. *see* **Prössdorf, S., 89b:65317**

Roth, C. C. *see* **Murio, D. A.**, (Not in MR)

Sambandham, M. *see* **Medhin, Negash G., 89e:65154**

Sanz-Serna, J. M. A numerical method for a partial integro-differential equation. **89d:65113**

Saranen, J. *see* **Lusikka, I., 89m:65116**

Sawaki, Y. *see* **Kamiya, Norio**, (**89f:65003**)

Schlichte, M. *see* **Hairer, E.; et al., 89g:65166**

Seĭchuk, V. N. A mechanical quadrature method for singular integral equations with shift on a Lyapunov curve. (Russian) **89g:65171**

Shamardan, A. B. *see* **El-Gendi, S. E.; et al., 89e:65149**

Shaw, R. E. (*with* Garey, L. E.) Modified increment methods for solving nonlinear second order Volterra integro-differential equations. **89b:65318**

— *see also* **Garey, L. E., 89g:65164** *and* **89i:65140**

Sheshko, M. A. A direct method for solving singular integral equations with a Hilbert kernel. (Russian. English summary) **89b:65319**

Silbermann, Bernd Numerical analysis for Wiener-Hopf integral equations in spaces of measurable functions. **89f:65148**

Sloan, Ian H. (*with* Spence, A.) Projection methods for integral equations on the half-line. **89h:65225**

— A quadrature-based approach to improving the collocation method. **89k:65165**

Somersalo, E. *see* **Haario, H., 89h:65221**

Spence, A. *see* **Sloan, Ian H., 89h:65225**

Stenger, Frank *see* **Bialecki, Bernard, 89g:65163**

Stephan, E. P. (*with* Suri, Manil) On the convergence of the p-version of the boundary element Galerkin method. **89h:65226**

— *see also* **Costabel, M.; et al., 89h:65218**

Suri, Manil *see* **Stephan, E. P., 89h:65226**

Syavavko, M. S. Stable elimination methods in linear problems. (Russian. English summary) **89f:65149**

Szyszka, U. *see* **Prössdorf, S., 89f:65147**

Tarlowski, C. Z. *see* **Koch, I., 89e:65151**

Tikhonenko, N. Ya. (*with* Tsymbalyuk, E. P.) On the approximate solution of integral equations of convolution type. (Russian) **89d:65114**

— *see also* **Noreddin, M. M., 89e:65157**

Tsymbalyuk, E. P. *see* **Tikhonenko, N. Ya., 89d:65114**

Tutunaru, S. A. *see* **Zolotarevskiĭ, V. A., 89g:65172**

Tynysbaev, B. The freezing method for countable systems of integro-differential equations. (Russian) (*see* **89a:00016**)

Ungiadze, A. V. Approximate solutions of singular integral equations with fixed singularities. (Russian) **89b:65320**

Veremeenko, T. V. A numerical method for solving a problem of the nonstationary mode of the generation of a laser with dynamic distributed feedback. (Russian. English summary) **89b:65321**

Volk, W. The iterated Galerkin method for linear integro-differential equations. **89a:65201**

Wang, Mao Ling (*with* Chang, Jung Yü; Yang, Shwu Yien) Double generalized orthogonal polynomial series for the solution of integral equations. **89m:65117**

Wendland, W. Mathematical properties and asymptotic error estimates for elliptic boundary element methods. **89d:65115**

Wendt, Werner *see* **Micke, A., 89a:65199**

Yan, Yi Convergence degree and correction of discrete ordinates method for transport problem. **89b:65322**

Yang, Shwu Yien *see* **Wang, Mao Ling; et al., 89m:65117**

Zhidkov, E. P. (*with* Khoromskiĭ, B. N.) ★ Граничные интегральные уравнения на специальных поверхностях и их приложения. (Russian) [Boundary integral equations on special surfaces and their applications] **89e:65159**

— (*with* Khoromskiĭ, B. N.) Boundary integral equations on special surfaces and their applications. **89h:65227**

Zolotarevskiĭ, V. A. A collocation method for solving singular integral equations on a complex contour. (Russian) **89e:65160**

— (*with* Tutunaru, S. A.) Some direct methods for the approximate solution of bisingular integral equations. (Russian) **89g:65172**

Items with secondary classifications in 65R20

Akhmadiev, M. G. Direct methods for solving a singular integro-differential equation. **89e:45005**

d'Almeida, Filomena Dias (*with* Rodrigues, Maria João) Is the iterative refinement of eigenelements an expensive technique? **89b:65134**

Andreev, Andreĭ St. *see* **Zhidkov, E. P.; et al., 89e:65015**

Babaev, Arif Aligeidarovich (*with* Musaev, B. I.) An approximate solution of a complete linear singular integral equation with a Hilbert kernel. (Russian) **89g:45025**

Belonogov, E. K. (*with* Zatsepin, A. Yu.) Comparative analysis of numerical methods for solving integral equations of inverse problems of radiative heat transfer. (Russian) **89j:80001**

Bel′tyukov, B. A. (*with* Makarov, S. A.) On the investigation of a class of two-dimensional partially loaded integral equations. (Russian) **89a:45014**

Chen, Chao Kuang *see* **Yang, Ching Yu; et al., 89a:45023**

Chen, Chieh-Li *see* **Yang, Ching Yu; et al., 89a:45023**

Colombo, V. (*with* Ravetto, P.; Sumini, M.) Variational determination of the neutron integral transport equation eigenvalues using space asymptotic trial functions. **89j:82088**

Corrias, A. (*with* Navarra, G.; Seatzu, Sebastiano; Utreras, Florencio I.) Two-phase regularisation method in Hilbert spaces: description and application to EXAFS problems. **89k:45001**

Cruse, T. A. ★ Boundary element analysis in computational fracture mechanics. **89h:65176**

Das, Shuvra *see* **Mitra, Ambar K., 89e:65142**

De Klerk, J. H. Solutions of integral equations via L_1-approximations. **89j:45009**

Ènder, A. Ya. *see* **Kolyshkin, I. N.; et al., 89m:82035**

Ènder, I. A. *see* **Kolyshkin, I. N.; et al., 89m:82035**

Engl, Heinz W. (*with* Groetsch, C. W.) A higher order approximation technique for restricted linear least-squares problems. **89g:65074**

Eyre, D. (*with* Wright, C. J.) Adaptive mesh grading for finite element solutions of an integral equation in quantum scattering. **89b:81236**

Farzan, Ruszlán On approximate solution of one integral equation in electromagnetic sounding. (*see* **89b:65012**)

Fetisov, V. G. On a problem of estimation for the regularization parameter for the approximate solution of Uryson equations of the first kind. (Russian) **89c:45010**

Gilyazov, S. F. ★ Методы решения линейных некорректных задач. (Russian) [Methods for solving linear ill-posed problems] **89c:65002**

Goncharskiĭ, A. V. *see* **Tikhonov, A. N.; et al., 89b:45001**

Gover, M. J. C. The efficient solution of a set of linear equations with a near r-Toeplitz coefficient matrix. **89j:65037**

Grebennikov, A. I. A spline-approximation method for solving some ill-posed problems. **89c:65068**

Griewank, Andreas On the iterative solution of differential and integral equations using secant updating techniques. **89h:65129**

Groetsch, C. W. *see* **Engl, Heinz W., 89g:65074**

Hromadka, Th. V., II (*with* Yen, Ch.-Ch.; Pinder, G. F.) ★ The best approximation method. An introduction. **89b:65288**

Karyukin, V. V. Acceleration of the convergence of an iterative process in the solution of integral equations by the Monte Carlo method. (Russian. English summary) **89b:65017**

Khisamutdinov, A. I. ★ Несмещенные оценки в методах Монте-Карло для интегральных уравнений. (Russian) [Unbiased estimates in Monte Carlo methods for integral equations] **89h:65012**

Khlobystov, V. V. *see* **Makarov, Vladimir Leonidovich, 89j:93030**

Kitagawa, Takashi A deterministic approach to optimal regularization. The finite-dimensional case. **89b:45010**

Kleinman, R. E. (*with* Roach, G. F.) Iterative solutions of boundary integral equations in acoustics. **89d:76027**

Kok, W. C. On the solution of nonlinear Fredholm integral equations by reduction to algebraic systems of equations. **89g:45005**

Kolyshkin, I. N. (*with* Ènder, A. Ya.; Ènder, I. A.) Numerical solution of isotropic relaxation problems by the Maxwellian expansion method. (Russian) **89m:82035**

Kornilov, I. E. *see* **Kul′chitskiĭ, V. L.; et al., 89m:65109**

Kul′chitskiĭ, V. L. (*with* Kornilov, I. E.; Noga, Yu. V.) ★ Численные методы исследования волновых полей в задачах дифракции и излучения. (Russian) [Numerical methods for the investigation of wave fields in problems of diffraction and radiation] **89m:65109**

Ladopoulos, E. G. On the numerical solution of the finite-part singular integral equations of the first and the second kind used in fracture mechanics. **89c:73071**

Li, Jong Du Application of the moment project-iteration method to solution of the integro-differential equation of one form. (Korean. English summary) **89e:65056**

Lifanov, I. K. A singular integral equation of the first kind for the Neumann problem. **89e:45007**

Lubich, C. Convolution quadrature and discretized operational calculus. I. **89g:65018**

— Convolution quadrature and discretized operational calculus. II. **89g:65019**

Makarov, S. A. *see* **Bel′tyukov, B. A., 89a:45014**

Makarov, Vladimir Leonidovich (*with* Khlobystov, V. V.) On the identification of nonlinear operators and its application (invited contribution). **89j:93030**

Meyer, Christian Näherungsverfahren für singuläre Integraloperatoren mit spezieller Carlemanscher Verschiebung. [Approximation methods for singular integral operators with special Carleman shift] **89f:45006**

Mikhaĭlov, G. A. ★ Оптимизация весовых методов Монте-Карло. (Russian) [Optimization of weighted Monte Carlo methods] **89i:65005**

— Vector Monte Carlo methods for calculating perturbations and derivatives with respect to parameters. (Russian) **89b:65018**

Mitra, Ambar K. (*with* Das, Shuvra) Nonuniqueness in the integral equation formulation of the biharmonic equation in multiply connected domains. **89e:65142**

Muntyan, V. I. *see* **Shpakovich, V. P., 89a:45020**

Musaev, B. I. On the approximate solution of singular integral equations. (Russian) **89h:45005**

— *see also* **Babaev, Arif Aligeidarovich, 89g:45025**

Nair, M. Thamban A modified projection method for equations of the second kind. **89b:65139**

Navarra, G. *see* **Corrias, A.; et al., 89k:45001**

Niessner, H. Significance of kernel singularities for the numerical solution of Fredholm integral equations. (*see* **89e:00008**)

Noga, Yu. V. *see* **Kul′chitskiĭ, V. L.; et al., 89m:65109**

Omuraliev, A. S. (*with* Saleĭdinov, K. I.) A regularization method for singularly perturbed integral equations. (Russian) **89d:45008**

Pinder, G. F. *see* **Hromadka, Th. V., II; et al., 89b:65288**

Popov, Vasil Atanasov *see* **Zhidkov, E. P.; et al., 89e:65015**

Radziņš, G. Application of the change of variables in solving a class of boundary integral equations. (Russian) (*see* **89f:00005**)

Rannacher, R. (*with* Wendland, W.) Pointwise convergence of some boundary element methods. II. (French summary) **89e:65122**

Ravetto, P. *see* **Colombo, V.; et al., 89j:82088**

Roach, G. F. *see* **Kleinman, R. E., 89d:76027**

Rodrigues, Maria João *see* **d'Almeida, Filomena Dias, 89b:65134**

Ruotsalainen, K. On the boundary element method with mesh refinement on curves with corners. **89a:65174**

Sabel′fel′d, K. K. *see* **Zítko, Jan, 89g:65008**

Saleĭdinov, K. I. *see* **Omuraliev, A. S., 89d:45008**

Seatzu, Sebastiano *see* **Corrias, A.; et al., 89k:45001**

Sengupta, Ashok (*with* Venkatesan, C. K.) On a discretised spectral approximation in neutron transport theory. **89g:82089**

Shpakovich, V. P. (*with* Muntyan, V. I.) Periodic solutions of integro-differential equations with "maxima". (Russian) **89a:45020**

Srazhidinov, A. A regularizer of numerical differentiation. (Russian) **89h:65033**

Starkov, A. V. ★ О точном и приближенных решениях задачи смешанной оптимизации векторных методов Монте-Карло. (Russian) [Exact and approximate solutions of a problem of mixed optimization of Monte Carlo vector methods] **89h:65014**
Stepanov, V. V. *see* **Tikhonov, A. N.; et al., 89b:45001**
Strizhkov, V. A. Well-posedness of Fredholm integral equations of the first kind of potential type for thin conductors. (Russian) **89k:45002**
Sumini, M. *see* **Colombo, V.; et al., 89j:82088**
Tang, Tao (*with* Yuan, Wei) The further study of a certain nonlinear integro-differential equation. **89h:45015**
Tikhonov, A. N. (*with* Goncharskiĭ, A. V.; Stepanov, V. V.) Inverse problems in image processing. **89b:45001**
Tvalodze, Yu. G. Solution of Volterra integral equations of the first kind with pre-assigned accuracy. (Russian. English and Georgian summaries) **89i:45005**
Utreras, Florencio I. *see* **Corrias, A.; et al., 89k:45001**
Venkatesan, C. K. *see* **Sengupta, Ashok, 89g:82089**
Wen, Xian Yun (*with* Wu, Chi Gong) Boundary integral equations. Inverse method for free surface gravity flows. **89f:76027**
Wendland, W. (*with* Yu, De Hao) Adaptive boundary element methods for strongly elliptic integral equations. **89h:65194**
— *see also* **Rannacher, R., 89e:65122**
Werschulz, Arthur G. Complexity of differential and integral equations. **89b:65281**
Wright, C. J. *see* **Eyre, D., 89b:81236**
Wu, Chi Gong *see* **Wen, Xian Yun, 89f:76027**
Yang, Ching Yu (*with* Chen, Chieh-Li; Chen, Chao Kuang) Solutions of integral equations via Taylor series. **89a:45023**
Yao, Ai Xiang Neumann series solution for the integral Boltzmann transport equation. **89a:82064**
Yen, Ch.-Ch. *see* **Hromadka, Th. V., II; et al., 89b:65288**
Yu, De Hao Self-adaptive boundary element methods. **89h:65197**
— *see also* **Wendland, W., 89h:65194**
Yuan, Wei *see* **Tang, Tao, 89h:45015**
Zatsepin, A. Yu. *see* **Belonogov, E. K., 89j:80001**
Zhidkov, E. P. (*with* Andreev, Andreĭ St.; Popov, Vasil Atanasov) The Gibbs effect for spline interpolation and for the numerical solution of integral equations by the spline-collocation method. (Russian) **89e:65015**
Zítko, Jan (*with* Sabel′fel′d, K. K.) ★ Ускорение сходимости итерационных методов на основе преобразования спектрального параметра и экстраполяции. (Russian) [Acceleration of the convergence of iterative methods on the basis of a transformation of the spectral parameter and extrapolation] **89g:65008**
Zolotarevskiĭ, V. A. The reduction method for the solution of complete singular integral equations on a Lyapunov contour. (Russian) **89g:45026**

65R99 None of the above, but in this section

Items with secondary classifications in 65R99

Bandemer, Hans Specifying inaccuracy and uncertainty in evaluating functional relationships. **89g:65060**
Chapron, S. *see* **Storey, L. R. O., 89f:86009**
Storey, L. R. O. (*with* Chapron, S.) Conditions for the existence and uniqueness of solutions to a constrained linear inverse problem. **89f:86009**

65S05 Graphical methods

Khovanskiĭ, G. S. ★ Номография сегодня. (Russian) [Nomography today] **89b:65323**
— A procedure for constructing nomograms from equidistant points for a system of equations. (Russian) **89f:65150**
Marcus, Solomon Mathématique et linguistique. (English summary) [Mathematics and linguistics] (Not in MR)
Sewell, Granville Plotting contour surfaces of a function of three variables. **89c:65140**

Items with secondary classifications in 65S05

Banchoff, T. F. Visualizing two-dimensional phenomena in four-dimensional space: a computer graphics approach. **89a:58001**
Evesham, H. A. Origins and development of nomography. **89d:01046**
Hoffmann, Christoph Algebraic curves. **89b:65040**
Suzuki, Yoshihiko (*with* Ueno, Satoshi) A numerical calculation method for nonlinear equations from geometrical viewpoints. (Not in MR)
Ueno, Satoshi *see* **Suzuki, Yoshihiko,** (Not in MR)

65T05 Harmonic analysis and synthesis

Auslander, L. (*with* Johnson, Rodney W.; Vulis, M.) Evaluating finite Fourier transforms that respect group symmetries. **89h:65228**
Bi, Wen Yi (*with* Luo, Xiao Nan; Jiang, Jian Guo) A general algorithm for the FFT, its minimization and the optimal radix. (Chinese. English summary) **89g:65173**
— (*with* Jiang, Jian Guo; Luo, Xiao Nan) The general algorithm of the FFT and its minimum. (Chinese. English summary) **89i:65142**
Bykovskiĭ, V. A. The discrete Fourier transform and a cyclic convolution on integer lattices. (Russian) **89m:65118**
Carmody, Kevin Finite Fourier series. **89h:65229**
Chebotarëv, A. M. The fast Fourier transform in a problem with multiple nodes. (Russian) **89b:65324**
Cheng, Li Zhi A fast discrete Hartley transform algorithm. (Chinese. English summary) **89m:65119**
Freeman, Mark O. (*with* Saleh, Bahaa E. A.) Moment invariants in the space and frequency domains. **89g:65174**
Gader, Paul D. Tridiagonal factorizations of Fourier matrices and applications to parallel computations of discrete Fourier transforms. **89f:65151**
Hamada, Hiroshi *see* **Morikawa, Yoshitaka; et al.,** (Not in MR)
Hekrdla, Josef Index transforms for N-dimensional DFTs. **89h:65230**
Jiang, Jian Guo *see* **Bi, Wen Yi; et al., 89g:65173** *and* **89i:65142**
Johnson, Rodney W. *see* **Auslander, L.; et al., 89h:65228**
Julian, William H. Banyan models for the parallel implementation of the fast Fourier transform algorithm. **89e:65161**
Kasenov, S. Z. Optimal accuracy calculation of the Fourier transform of functions of the class $C_{L,N,\varepsilon}$. (Russian) **89f:65152**
Li, Lei *see* **You, Zhao Yong, 89e:65163**
Luo, Xiao Nan *see* **Bi, Wen Yi; et al., 89g:65173** *and* **89i:65142**
Ma, Dai Xing *see* **Tao, De Yuan,** (Not in MR)
Morikawa, Yoshitaka (*with* Hamada, Hiroshi; Yamane, Nobumoto) A fast algorithm for the cosine transform based on successive order reduction of the Chebyshev polynomial. (Not in MR)
Osipov, V. M. ★ Основы метода изображающих векторов. (Russian) [Principles of the method of representative vectors] **89a:65202**
Rand, O. Harmonic variables—a new approach to nonlinear periodic problems. **89e:65162**
Saleh, Bahaa E. A. *see* **Freeman, Mark O., 89g:65174**
Tao, De Yuan (*with* Ma, Dai Xing) The digital CZT algorithm and its application. (Chinese) (Not in MR)
Temperton, Clive A self-sorting in-place prime factor real/half-complex FFT algorithm. **89b:65325**
Vulis, M. *see* **Auslander, L.; et al., 89h:65228**
Wang, Hong Yuan A logarithmic algorithm for the fast Fourier transform. (Chinese. English summary) **89i:65143**
Wang, Lin (*with* Yang, Fu Sheng) An extension of the DFT and the fast Prony algorithm. (Chinese. English summary) (Not in MR)
Yamane, Nobumoto *see* **Morikawa, Yoshitaka; et al.,** (Not in MR)
Yang, Fu Sheng *see* **Wang, Lin,** (Not in MR)
You, Zhao Yong (*with* Li, Lei) Some applications of the fast generalized Fourier transform. (Chinese. English summary) **89e:65163**

Items with secondary classifications in 65T05

Alvarellos, José (*with* Metiu, Horia) The evolution of the wave function in a curve crossing problem computed by a fast Fourier transform method. **89b:81009**
Ammar, Gregory S. (*with* Gragg, William B.) Superfast solution of real positive definite Toeplitz systems. **89b:65065**
Arro, I. An algorithm for the reduced calculation of the discrete cosine Fourier transform. (Russian) (Not in MR)
Bakushinskiĭ, A. B. (*with* Goncharskiĭ, A. V.; Levitan, S. Yu.) Fast linear iterative algorithms for the restoration of images. (Russian) **89j:65087**
Carlson, David A. Upper and lower bounds on time-space tradeoffs for computations with embedded fast Fourier transforms. **89d:68026**
Duhamel, Pierre Raymond (*with* Hollmann, H.) On discrete Fourier transforms (number-theoretic transforms) with minimum number of rotations (shifts). (French and German summaries) **89d:94008**
— *see also* **Vetterli, Martin, 89k:94007**
Gilmour, A. E. Circulant matrix methods for the numerical solution of partial differential equations by FFT convolutions. **89a:65185**
Goncharskiĭ, A. V. *see* **Bakushinskiĭ, A. B.; et al., 89j:65087**
Gragg, William B. *see* **Ammar, Gregory S., 89b:65065**
Gutknecht, Martin Attenuation factors in multivariate Fourier analysis. **89d:42022**
Harley, P. J. *see* **Pickering, W. M., 89h:65167**
Heideman, Michael T. ★ Multiplicative complexity, convolution, and the DFT. **89i:94006**
Hofmann-Wellenhof, B. (*with* Moritz, Helmut) Introduction to spectral analysis. **89g:86003**
Hollmann, H. *see* **Duhamel, Pierre Raymond, 89d:94008**
Jiang, Zeng Rong Polynomial transforms with modulus $z^{2q} - z^{q} + 1$. (Chinese. English summary) **89i:94007**
Levitan, S. Yu. *see* **Bakushinskiĭ, A. B.; et al., 89j:65087**
Metiu, Horia *see* **Alvarellos, José, 89b:81009**
Moritz, Helmut *see* **Hofmann-Wellenhof, B., 89g:86003**
Nohara, Kazuo Efficient algorithms for piecewise-linear transform and its inverse. (French and German summaries) **89d:94011**
Pickering, W. M. (*with* Harley, P. J.) Poisson's equation, hexagonal grids and FFT methods: periodic boundary conditions. **89h:65167**
Schumann, Ulrich (*with* Sweet, Roland A.) Fast Fourier transforms for direct solution of Poisson's equation with staggered boundary conditions. **89b:65253**
Smotrovs, A. Ya. Application of the F-A method for the inversion of the Fourier integral transform. (Russian) **89c:42014**
Sweet, Roland A. *see* **Schumann, Ulrich, 89b:65253**
Tereshchenko, T. A. *see* **Zhuĭkov, V. Ya.,** (Not in MR)
Vasilenko, V. A. (*with* Zyuzin, M. V.) Application of operators with piecewise-constant kernels to digital processing of data. **89b:94005**
Vetterli, Martin (*with* Duhamel, Pierre Raymond) Split-radix algorithms for length-p^m DFTs. **89k:94007**
Zhuĭkov, V. Ya. (*with* Tereshchenko, T. A.) Discrete symmetric transformation of functions on finite intervals. (Russian. English summary) (Not in MR)
Zyuzin, M. V. *see* **Vasilenko, V. A., 89b:94005**

65U05 Numerical methods in probability and statistics

Ammann, Larry (*with* Van Ness, John) A routine for converting regression algorithms into corresponding orthogonal regression algorithms. (Not in MR)
Artem′ev, S. S. *see* **Averina, T. A., 89c:65141** *and* **89k:65166**
Averina, T. A. (*with* Artem′ev, S. S.) ★ Некоторые вопросы построения и использования численных методов для решения систем стохастических дифференциальных уравнений. (Russian) [Some problems of the construction and use of numerical methods for solving systems of stochastic differential equations] **89c:65141**

— (*with* Artem′ev, S. S.) Numerical solution of systems of stochastic differential equations. **89k:65166**
Booth, Andrew D. (*with* Booth, Ian J. M.) A note on the progressive calculation of the mean and variance. (Not in MR)
Booth, Ian J. M. *see* **Booth, Andrew D.**, (Not in MR)
Chabanyuk, V. S. Gaussian diffusion approximation of a multiprocessor computer system. (Russian) **89e:65164**
Deville, J.-C. (*with* Grosbras, Jean-Marie; Roth, N.) Efficient sampling algorithms and balanced samples. (*see* **89i:62004**)
Ekblom, Håkan A new algorithm for the Huber estimator in linear models. **89g:65175**
Fink, A. M. How to polish off median polish. **89h:65231**
Gabler, S. (*with* Wolff, Christian) A quick and easy approximation to the distribution of a sum of weighted chi-square variables. **89k:65167**
Gonin, R. (*with* Money, A. H.) A review of computational methods for solving the nonlinear L_1-norm estimation problem. **89d:65116**
Gordesch, J. An algorithm for the approximation of *n*-dimensional distributions. (*see* **89i:62004**)
Grosbras, Jean-Marie *see* **Deville, J.-C.; et al.**, (**89i:62004**)
Hájek, P. Towards a probabilistic analysis of MYCIN-like expert systems (working paper). (*see* **89i:62004**)
Higham, Nicholas J. (*with* Stewart, G. W.) Numerical linear algebra in statistical computing. **89d:65117**
Huang, Jian Dong Spline approximations to two classes of probability distribution functions. (Chinese. English summary) (Not in MR)
Jinadasa, K. G. *see* **Tracy, D. S., 89f:65153**
Jiroušek, R. (*with* Kříž, O.) An expert system accepting knowledge in a form of statistical data. (*see* **89i:62004**)
Kosfeld, R. Efficient iteration procedures for maximum likelihood factor analysis. **89k:65168**
Kříž, O. *see* **Jiroušek, R.**, (**89i:62004**)
Lee, E. S. *see* **Sugiyama, H., 89d:65120**
Li, Gao (*with* Madsen, Kaj) Robust nonlinear data fitting. **89h:65232**
Lukshin, An. V. (*with* Smirnov, S. N.) A stochastic algorithm for solving the Boltzmann equation on the basis of the Euler method. (Russian) **89d:65118**
Madsen, Kaj *see* **Li, Gao, 89h:65232**
Money, A. H. *see* **Gonin, R., 89d:65116**
Nelder, J. A. How should the statistical expert system and its user see each other? (*see* **89i:62004**)
Neumann, Robert Klaus Numerische Untersuchung von Funktionen zufälliger Matrizen. II. Restgliedabschätzung und Beispiele. [Numerical investigation of functions of random matrices. II. Estimation of the remainder and examples] **89h:65233**
Philip, Johan The most ill-posed nonnegative kernels in discrete deconvolution. **89c:65142**
Roth, N. *see* **Deville, J.-C.; et al.**, (**89i:62004**)
Royen, Thomas An approximation for multivariate normal probabilities of rectangular regions. **89d:65119**
Schneeberger, Hans Optimale Schichtung und Aufteilung der zweidimensionalen Normalverteilung. [Optimum stratification and division of the two-dimensional normal distribution] (*see* **89i:00018**)
Smirnov, S. N. *see* **Lukshin, An. V., 89d:65118**
Stewart, G. W. Parallel linear algebra in statistical computations. (*see* **89i:62004**)
— *see also* **Higham, Nicholas J., 89d:65117**
Sugiyama, H. (*with* Lee, E. S.) Stochastic approximation—a powerful method for solving deterministic numerical problems. **89d:65120**
Tracy, D. S. (*with* Jinadasa, K. G.) Matrix derivatives of patterned matrices and statistical applications. **89f:65153**
Van Ness, John *see* **Ammann, Larry**, (Not in MR)
Wang, Yue Ke *see* **Xiong, You Lun; et al., 89k:65169**
Wolff, Christian *see* **Gabler, S., 89k:65167**
Xiong, You Lun (*with* Yang, Shu Zi; Wang, Yue Ke) Complex time series and accuracy of spindle rotation. (Chinese. English summary) **89k:65169**
Yang, Shu Zi *see* **Xiong, You Lun; et al., 89k:65169**

Items with secondary classifications in 65U05

Bezdek, J. C. *see* **Davenport, J. W.; et al., 89h:62045**
Bhanot, Gyan The Metropolis algorithm. **89e:65006**
Blanc, J. P. C. On a numerical method for calculating state probabilities for queueing systems with more than one waiting line. **89a:60211**
Chernov, I. V. *see* **Palagin, Yu. I., 89k:65009**
Cuadras, C. M. *see* **Ocaña, J., 89k:62070**
Davenport, J. W. (*with* Bezdek, J. C.; Hathaway, R. J.) Parameter estimation for finite mixture distributions. **89h:62045**
Farebrother, R. W. ★ Linear least squares computations. **89h:62101**
Goldman, Sally A. (*with* Rivest, Ronald L.) Making maximum entropy computations easier by adding extra constraints (extended abstract). (*see* **89f:62002**)
Greiner, A. (*with* Strittmatter, W.; Honerkamp, J.) Numerical integration of stochastic differential equations. **89k:60076**
Hathaway, R. J. *see* **Davenport, J. W.; et al., 89h:62045**
Haviv, Moshe Aggregation/disaggregation methods for computing the stationary distribution of a Markov chain. **89f:65039**
Ho, Yu-Chi (*with* Li, Shu; Vakili, Pirooz) On the efficient generation of discrete event sample paths under different system parameter values. **89j:68153**
Honerkamp, J. *see* **Greiner, A.; et al., 89k:60076**
Iyengar, Satish Evaluation of normal probabilities of symmetric regions. **89f:62048**
Kodde, D. A. *see* **Palm, F. C., 89k:62030**
Kruse, Rudolf (*with* Meyer, Klaus Dieter) Confidence intervals for the parameter of the normal distribution in the presence of vague data. (*see* **89b:03006**)
Kurth, Petra (*with* Zschiesche, Hans-Ulrich) Numerische Approximation von Markowprozessen. [Numerical approximation of Markov processes] **89j:60076**
Li, Shu *see* **Ho, Yu-Chi; et al., 89j:68153**
Marazzi, A. Algorithms for the computation of weights in bounded influence regression. **89i:62064**
Meyer, Klaus Dieter *see* **Kruse, Rudolf**, (**89b:03006**)
Mikhaĭlov, G. A. ★ Методы Монте-Карло для решения задач со случайными параметрами. (Russian) [Monte Carlo methods for solving problems with random parameters] **89h:65013**
Narula, Subhash C. (*with* Wellington, John F.) An efficient algorithm for the MSAE and the MMAE regression problems. (Not in MR)
Nguyen Ngoc Cuong *see* **Nguyen Quy Hy, 89h:60101**
Nguyen Quy Hy (*with* Nguyen Ngoc Cuong) On the probabilistic properties of the solution of random integral equations. (Polish summary) **89h:60101**
Ocaña, J. (*with* Cuadras, C. M.) Computer generation of a bivariate system with specified marginals and dependence parameter estimation. (Spanish. English summary) **89k:62070**
Osborne, M. R. (*with* Prvan, Tania) Smoothness and conditioning in generalised smoothing spline calculations. **89h:65023**
O'Sullivan, Finbarr Fast computation of fully automated log-density and log-hazard estimators. **89g:62062**
Palagin, Yu. I. (*with* Chernov, I. V.) Error analysis and the choice of model parameters in statistical modeling of random fields and processes. **89k:65009**
Palm, F. C. (*with* Kodde, D. A.) Computing Wald criteria for nested hypotheses. **89k:62030**
Prvan, Tania *see* **Osborne, M. R., 89h:65023**
Rhee, K. Anthony *see* **Rhee, WanSoo T., 89h:65106**
Rhee, WanSoo T. (*with* Rhee, K. Anthony) Minimization technique for a convex function with application to multiple regression model. **89h:65106**
Rivest, Ronald L. *see* **Goldman, Sally A.**, (**89f:62002**)
Roberts, Stephen Convergence of a random walk method for the Burgers equation. **89i:65090**
Stanzhitskiĭ, A. N. (*with* Sukhomlin, A. A.) A numerical-analytic method for systems with random perturbation. (Russian) **89i:65079**
Ştefănescu, Ştefan Another algorithm for generating Dirichlet vectors. **89b:65024**
— An algorithm for generating random variables with a normal distribution of order *p*. **89b:65025**
Strittmatter, W. *see* **Greiner, A.; et al., 89k:60076**
Sukhomlin, A. A. *see* **Stanzhitskiĭ, A. N., 89i:65079**
Tarantola, Albert ★ Inverse problem theory. **89b:65007**
Thisted, Ronald A. ★ Elements of statistical computing. **89h:65005**
Vakili, Pirooz *see* **Ho, Yu-Chi; et al., 89j:68153**
Van Dooren, Paul (*with* Verhaegen, M. H.) Condensed forms for efficient time-invariant Kalman filtering. **89b:65107**
Verhaegen, M. H. *see* **Van Dooren, Paul, 89b:65107**
Watson, G. A. Methods for best approximation and regression problems. **89a:65026**
Wellington, John F. *see* **Narula, Subhash C.**, (Not in MR)
Zschiesche, Hans-Ulrich *see* **Kurth, Petra, 89j:60076**

65V05 Automated algorithms [see also 68Q20]

Cai, Da Yong (*with* Fan, Su Zhen) A component of NS-ITPACK—L101. (Chinese. English summary) **89h:65234**
Codenotti, B. The bit-cost of some algorithms for the solution of linear systems. **89d:65121**
Costantini, Paolo An algorithm for computing shape-preserving interpolating splines of arbitrary degree. **89e:65165**
Dongarra, J. J. (*with* Sorensen, D. C.) A look at the evolution of mathematical software for dense matrix problems over the past fifteen years. (*see* **89j:65093**)
Fan, Su Zhen *see* **Cai, Da Yong, 89h:65234**
Filin, A. G. Transposition of matrices on a vector pipeline computer. (Russian) **89e:65166**
Hebermehl, Georg PP NUMATH—a program package for methods of numerical mathematics. With remarks on matrix processor variants. (*see* **89b:65012**)
Mawata, C. P. Solving the heat equation symbolically with MuSimp. (Not in MR)
Shokurov, A. V. Computation of functions with double precision on a vector pipeline computer. (Russian) **89f:65154**
Sorensen, D. C. *see* **Dongarra, J. J.**, (**89j:65093**)

Items with secondary classifications in 65V05

Adam, Gh. Alternative formulation of the extended Clenshaw-Curtis quadrature rules for oscillating integrals. **89c:65027**
Baehmann, P. L. (*with* Shephard, M. S.; Flaherty, Joseph E.) Adaptive analysis for automated finite element modeling. (*see* **89c:65004**)
Balk, P. I. An attempt at the automatization of the solution of theoretical problems of gravimetry in parametric classes of interpretation. (Russian) **89c:86004**
Brown, Robert Arthur *see* **Thomas, P. D., 89a:65050**
Carlson, B. C. A table of elliptic integrals of the second kind. **89b:65013**
Clocksin, W. F. A technique for translating clausal specifications of numerical methods into efficient programs. **89j:68019**
Cools, Ronald (*with* Haegemans, Ann) Automatic computation of knots and weights of cubature formulae for circular symmetric planar regions. **89c:65028**
Fischer, Herbert Some aspects of automatic differentiation. (*see* **89c:65007**)
Flaherty, Joseph E. *see* **Baehmann, P. L.; et al.**, (**89c:65004**)
Flannery, Brian P. *see* **Press, William H.; et al., 89b:65001a** *and* **Vetterling, William T.; et al., 89b:65001b**
Garbow, B. S. (*with* Giunta, G.; Lyness, J. N.; Murli, A.) Software for an implementation of Weeks' method for the inverse Laplace transform problem. **89d:65107**
Giunta, G. *see* **Garbow, B. S.; et al., 89d:65107**
Gladwell, I. (*with* Thomas, Ruth Margaret) Variable-order variable-step algorithms for second-order systems. II. The codes. **89b:65182b**
— *see also* **Thomas, Ruth Margaret, 89b:65182a**
Greenberg, Steven (*with* McQueen, David M.; Peskin, Charles S.) Three-dimensional fluid dynamics in a two-dimensional amount of central memory. **89a:76002**
Griffiths, D. V. *see* **Smith, I. M., 89d:65101**

Haegemans, Ann *see* **Cools, Ronald, 89c:65028**

Ivanov, Viktor Vladimirovich ★ Методы вычислений на ЭВМ. [Computational methods on a computer] **89a:65001**

Kolev, L. V. A quasi-Newton algorithm for following solution curves. **89a:65087**

Kramer, Mark A. *see* **Leis, Jorge R., 89b:65176**

Krasnov, S. A. Mapping of computational algorithms on systolic arrays. (Russian) **89e:65170**

Leis, Jorge R. (*with* Kramer, Mark A.) The simultaneous solution and sensitivity analysis of systems described by ordinary differential equations. **89b:65176**

Liu, Y. C. *see* **Zienkiewicz, O. C.; et al., (89c:65004)**

Lyness, J. N. *see* **Garbow, B. S.; et al., 89d:65107**

McQueen, David M. *see* **Greenberg, Steven; et al., 89a:76002**

Mijalković, S. (*with* Stojadinović, N.) Solution of the diffusion equation in VLSI process modeling by a nonlinear multigrid algorithm. (*see* **89c:65007**)

Morgan, Kenneth *see* **Zienkiewicz, O. C.; et al., (89c:65004)**

Murli, A. *see* **Garbow, B. S.; et al., 89d:65107**

Packel, Edward W. Do linear problems have linear optimal algorithms? **89h:68068**

Peraire, J. *see* **Zienkiewicz, O. C.; et al., (89c:65004)**

Peskin, Charles S. *see* **Greenberg, Steven; et al., 89a:76002**

Press, William H. (*with* Flannery, Brian P.; Teukolsky, Saul A.; Vetterling, William T.) ★ Numerical recipes in C. **89b:65001a**

— *see also* **Vetterling, William T.; et al., 89b:65001b**

Rivara, María-Cecilia Numerical generation of nested series of general triangular grids. **89a:65180**

Robertazzi, T. G. (*with* Schwartz, S. C.) Best "ordering" for floating-point addition. **89b:65117**

Salane, Douglas E. A stiff ODE solver for use in solving two-dimensional reaction-diffusion problems. **89g:65091**

Schwartz, S. C. *see* **Robertazzi, T. G., 89b:65117**

Senchukov, V. F. A sequential model for a Boolean algebra. (Russian. English summary) **89b:03102**

Shephard, M. S. *see* **Baehmann, P. L.; et al., (89c:65004)**

Shvachka, A. B. *see* **Topunov, V. L., 89h:58003**

Smith, I. M. (*with* Griffiths, D. V.) ★ Programming the finite element method. **89d:65101**

Stojadinović, N. *see* **Mijalković, S., (89c:65007)**

Strese, Hartmut ★ BESSY: ein System zur Lösung ebener Probleme mit der Randelementmethode. (German) [BESSY: a system for the solution of plane problems with the boundary element method] **89c:65126**

Teukolsky, Saul A. *see* **Press, William H.; et al., 89b:65001a** *and* **Vetterling, William T.; et al., 89b:65001b**

Thomas, P. D. (*with* Brown, Robert Arthur) *LU* decomposition of matrices with augmented dense constraints. **89a:65050**

Thomas, Ruth Margaret (*with* Gladwell, I.) Variable-order variable-step algorithms for second-order systems. I. The methods. **89b:65182a**

— *see also* **Gladwell, I., 89b:65182b**

Topunov, V. L. (*with* Shvachka, A. B.) ★ Комплекс программ для исследования дифференциальных уравнений методом внешних форм. (Russian) [A complex program for the investigation of differential equations by the method of exterior forms] **89h:58003**

Turkel, Eli Algorithms for the Euler and Navier-Stokes equations for supercomputers. **89a:65140**

Vetterling, William T. (*with* Teukolsky, Saul A.; Press, William H.; Flannery, Brian P.) ★ Numerical recipes example book (C). **89b:65001b**

— *see also* **Press, William H.; et al., 89b:65001a**

Zhang, A Bu Model algorithmic control with time delay compensator. (Chinese. English summary) **89a:34091**

Zhu, J. Z. *see* **Zienkiewicz, O. C.; et al., (89c:65004)**

Zienkiewicz, O. C. (*with* Zhu, J. Z.; Liu, Y. C.; Morgan, Kenneth; Peraire, J.) Error estimates and adaptivity from elasticity to high speed compressible flow. (*see* **89c:65004**)

65W05 Parallel computation

Andon, F. I. (*with* Polyachenko, B. E.; Gun'ko, O. L.) Optimization of computations in multiprocessor computer complexes. (Russian) **89f:65155**

Andrukh, G. V. (*with* Nikitenko, S. S.) Spline representation of information on natural tests of dynamic objects in multiprocessor systems. (Russian) **89e:65167**

Barragy, E. *see* **Carey, G. F.; et al.,** (Not in MR)

Barry, J. M. (*with* Wachspress, E. L.) A method of parallel iteration based on polynomial correction. **89g:65176**

Bekakos, M. P. *see* **Evans, David J., 89b:65328**

Benner, Robert E. *see* **Gustafson, John L.; et al.,** (Not in MR)

Berry, M. V. (*with* Sameh, Ahmed) Multiprocessor Jacobi algorithms for dense symmetric eigenvalue and singular value decompositions. (*see* **89b:68010**)

Carey, G. F. (*with* Barragy, E.; McLay, Robert T.; Sharma, M.) Element-by-element vector and parallel computations. (Not in MR)

Celmaster, William Parallelization of physical systems on the BBN butterfly: some examples. (*see* **89j:65093**)

Chan, Tony F. (*with* Tuminaro, Ray S.) Design and implementation of parallel multigrid algorithms. **89i:65144**

Chang, H. Y. (*with* Utku, S.; Salama, M.; Rapp, D.) A parallel Householder tridiagonalization stratagem using scattered row decomposition. **89c:65143**

— *see also* **Utku, S.; et al., (89b:68010)**

Clementi, E. (*with* Logan, D.; Sonnad, V.) Solution of large scale engineering problems using a loosely coupled array of processors. (*see* **89j:65093**)

Coleman, Thomas F. *see* **Li, Guang Ye, 89b:65333**

Coman, G. On the efficiency of parallel computation in numerical quadrature. (*see* **89c:00027**)

(**Dianov, V. I.**) *see* **Data processing in multiprocessor distributed computer systems, 89a:65206**

Douglas, Craig C. (*with* Ma, Shing C.; Miranker, Willard L.) Generating parallel algorithms through multigrid and aggregation/disaggregation techniques. **89b:65326**

— (*with* Miranker, Willard L.) Constructive interference in parallel algorithms. **89b:65327**

Eisenstat, S. C. (*with* Heath, M. T.; Henkel, C. S.; Romine, C. H.) Modified cyclic algorithms for solving triangular systems on distributed-memory multiprocessors. **89e:65169**

Erëmin, A. Yu. (*with* Zabolotnov, D. B.) ★ Минимизация заполнения в прямых методах исключения на параллельных ЭВМ. [Fill-in minimization in direct elimination methods on parallel computers] **89g:65177**

Evans, David J. (*with* Bekakos, M. P.) The solution of linear systems by the QIF algorithm on a wavefront array processor. **89b:65328**

Fang, Jing Long *see* **Wang, Neng Chao, 89i:65146**

Fox, Geoffrey C. A graphical approach to load balancing and sparse matrix vector multiplication on the hypercube. (*see* **89j:65093**)

— A review of automatic load balancing and decomposition methods for the hypercube. (*see* **89j:65093**)

Frederickson, Paul O. (*with* McBryan, Oliver A.) Parallel superconvergent multigrid. (*see* **89c:65005**)

Fulton, Robert E. *see* **Ou, Ronfu, 89h:65236**

Gallopoulos, E. (*with* Saad, Y.) A parallel block cyclic reduction algorithm for the fast solution of elliptic equations. **89b:65329**

Gao, Guang R. A pipelined solution method of tridiagonal linear equation systems. (*see* **89b:68010**)

— A stability classification method and its application to pipelined solution of linear recurrences. **89a:65203**

Geist, George A. (*with* Romine, C. H.) *LU* factorization algorithms on distributed-memory multiprocessor architectures. **89d:65122**

Gerbi, Stephane *see* **Herbin, Raphaèle; et al., 89g:65178**

Goldmann, Mark Vectorisation of the multiple shooting method for the nonlinear boundary value problem in ordinary differential equations. **89b:65330**

Gropp, William Adaptive methods for hyperbolic problems on local memory parallel processors. (*see* **89j:65093**)

— Local uniform mesh refinement on loosely-coupled parallel processors. **89d:65123**

Gun'ko, O. L. *see* **Andon, F. I.; et al., 89f:65155**

Gustafson, John L. (*with* Montry, Gary R.; Benner, Robert E.) Development of parallel methods for a 1024-processor hypercube. (Not in MR)

Heath, M. T. (*with* Romine, C. H.) Parallel solution of triangular systems on distributed-memory multiprocessors. **89e:65168**

— *see also* **Eisenstat, S. C.; et al., 89e:65169**

Henkel, C. S. *see* **Eisenstat, S. C.; et al., 89e:65169**

Herbin, Raphaèle (*with* Gerbi, Stephane; Sonnad, V.) Parallel implementation of a multigrid method on the experimental ICAP supercomputer. **89g:65178**

Ipsen, Ilse C. F. Systolic algorithms for the parallel solution of dense symmetric positive-definite Toeplitz systems. (*see* **89j:65093**)

Johnsson, S. Lennart Ensemble architectures and their algorithms: an overview. (*see* **89j:65093**)

Kadane, Joseph B. Parallel and sequential computation: a statistician's view. **89b:65331**

Kalyaev, A. V. (*with* Tishchenko, A. G.) Organization of parallel-sequential algorithms for base problems of linear algebra with structural realization of large-scale operations. (Russian. English summary) (Not in MR)

Kerckhoffs, E. J. H. Multiprocessor algorithms for ODEs. **89j:65092**

Kirchner, R. (*with* Kulisch, U.) Fast and accurate computation of sums and inner products. **89h:65235**

Krasnov, S. A. Mapping of computational algorithms on systolic arrays. (Russian) **89e:65170**

Kulisch, U. *see* **Kirchner, R., 89h:65235**

Kuznetsov, I. B. (*with* Kuznetsov, S. B.) ★ Распараллеливание методов типа ПВР для решения эллиптических уравнений. (Russian) [Subdivision into parallel parts of methods of SOR type for solving elliptic equations] **89b:65332**

Kuznetsov, S. B. *see* **Kuznetsov, I. B., 89b:65332**

LeBlanc, Thomas J. Problem decomposition and communication tradeoffs in a shared-memory multiprocessor. (*see* **89j:65093**)

Li, Guang Ye (*with* Coleman, Thomas F.) A parallel triangular solver for a distributed-memory multiprocessor. **89b:65333**

Li, Lei *see* **You, Zhao Yong, 89i:65148**

Logan, D. *see* **Clementi, E.; et al., (89j:65093)**

Lu, Yi Jun *see* **Wang, Neng Chao, 89i:65147**

Ma, Shing C. *see* **Douglas, Craig C.; et al., 89b:65326**

McBryan, Oliver A. *see* **Frederickson, Paul O., (89c:65005)**

McLay, Robert T. *see* **Carey, G. F.; et al.,** (Not in MR)

Michielse, Peter H. (*with* van der Vorst, Henk A.) Data transport in Wang's partition method. **89b:65334**

Mierendorff, Hermann Parallelization of multigrid methods with local refinements for a class of nonshared memory systems. **89i:65145**

Miranker, Willard L. *see* **Douglas, Craig C.; et al., 89b:65326** *and* **89b:65327**

Montry, Gary R. *see* **Gustafson, John L.; et al.,** (Not in MR)

Nikitenko, S. S. *see* **Andrukh, G. V., 89e:65167**

Ortega, James M. The *ijk* forms of factorization methods. I. Vector computers. **89d:65124**

— (*with* Romine, C. H.) The *ijk* forms of factorization methods. II. Parallel systems. **89d:65125**

Ou, Ronfu (*with* Fulton, Robert E.) An investigation of parallel numerical integration methods for nonlinear dynamics. **89h:65236**

Pan, V. (*with* Reif, John H.) Parallel nested dissection for path algebra computations. **89a:65204**

Polyachenko, B. E. *see* **Andon, F. I.; et al., 89f:65155**

Rajaraman, V. *see* **Siva Ram Murthy, C.,** (Not in MR)

Rapp, D. *see* **Chang, H. Y.; et al., 89c:65143** *and* **Utku, S.; et al., (89b:68010)**

Reif, John H. *see* **Pan, V., 89a:65204**

Robert, Yves (*with* Trystram, Denis) Comments on scheduling parallel iterative methods on multiprocessor systems. (Not in MR)

Romine, C. H. *see* **Geist, George A., 89d:65122; Ortega, James M., 89d:65125; Heath, M. T., 89e:65168** *and* **Eisenstat, S. C.; et al., 89e:65169**
Saad, Y. *see* **Gallopoulos, E., 89b:65329**
Salama, M. *see* **Chang, H. Y.; et al., 89c:65143** *and* **Utku, S.; et al., (89b:68010)**
Saltz, Joel Methods for automated problem mapping. (*see* **89j:65093**)
Sameh, Ahmed *see* **Berry, M. V., (89b:68010)**
Schreiber, Robert Block algorithms for parallel machines. (*see* **89j:65093**)
Schultz, Martin The LCAP system: an example of a multicomputer. (*see* **89j:65093**)
— *see also* **Numerical algorithms for modern parallel computer architectures, 89j:65093**
Sharma, M. *see* **Carey, G. F.; et al.**, (Not in MR)
Silvester, D. J. Optimizing element matrix calculations using the technique of element vectorization. (*see* **89c:65004**)
Siva Ram Murthy, C. (*with* Rajaraman, V.) A multiprocessor architecture for solving nonlinear partial differential equations. (Not in MR)
Sonnad, V. *see* **Herbin, Raphaèle; et al., 89g:65178** *and* **Clementi, E.; et al., (89j:65093)**
Sridhar, M. K. A new algorithm for parallel solution of linear equations. **89a:65205**
Tishchenko, A. G. *see* **Kalyaev, A. V.**, (Not in MR)
Trystram, Denis *see* **Robert, Yves**, (Not in MR)
Tuminaro, Ray S. *see* **Chan, Tony F., 89i:65144**
Tyrtyshnikov, E. E. Parallel algorithms in problems with Toeplitz matrices. (Russian) **89d:65126**
Utku, S. (*with* Chang, H. Y.; Salama, M.; Rapp, D.) Simultaneous iterations algorithm for general eigenvalue problems on parallel processors. (*see* **89b:68010**)
— *see also* **Chang, H. Y.; et al., 89c:65143**
Van Loan, Charles A block QR factorization scheme for loosely coupled systems of array processors. (*see* **89j:65093**)
van der Vorst, Henk A. *see* **Michielse, Peter H., 89b:65334**
Wachspress, E. L. *see* **Barry, J. M., 89g:65176**
Wang, Neng Chao (*with* Fang, Jing Long) Error analysis of the asynchronous parallel algorithm for block tridiagonal linear equations. (Chinese. English summary) **89i:65146**
— (*with* Lu, Yi Jun) The bisection/elimination method for the parallel solution of tridiagonal systems of linear equations. (Chinese. English summary) **89i:65147**
Wise, David S. Parallel decomposition of matrix inversion using quadtrees. (*see* **89b:68010**)
You, Zhao Yong (*with* Li, Lei) Optimal algorithms for parallel matrix multiplication on a vector computer. (Chinese. English summary) **89i:65148**
Zabolotnov, D. B. *see* **Erëmin, A. Yu., 89g:65177**

Items listed otherwise than by author

Data processing in multiprocessor distributed computer systems ★ Обработка данных в многопроцессорных распределенных вычислительных системах. (Russian) [Data processing in multiprocessor distributed computer systems] **89a:65206**
Minneapolis, MN ★ Numerical algorithms for modern parallel computer architectures. **89j:65093**
Numerical algorithms for modern parallel computer architectures ★ Numerical algorithms for modern parallel computer architectures. **89j:65093**
Workshop:
  Numerical Algorithms for Modern Parallel Computer Architectures ★ Numerical algorithms for modern parallel computer architectures. **89j:65093**

Items with secondary classifications in 65W05

Bailey, David H. Extra high speed matrix multiplication on the Cray-2. (Not in MR)
Benson, Maurice W. (*with* Frederickson, Paul O.) Fast pseudo-inverse algorithms on hypercubes. **89g:65046**
Bernstein, Herbert J. (*with* Goldstein, Max) Optimizing Givens' algorithm for multiprocessors. **89b:65090**
Bevilacqua, Roberto (*with* Codenotti, B.; Romani, F.) Parallel solution of block tridiagonal linear systems. **89g:65024**
Blum, Edward K. The semantics and complexity of parallel programs for vector computations. I. A case study using Ada. **89h:68097**
Bodlaender, H. L. ★ Distributed computing: structure and complexity. **89j:68015**
Bojańczyk, A. (*with* Brent, Richard P.; Van Dooren, Paul; de Hoog, F.) Downdating the Cholesky factorization. **89i:65042**
Borzdova, T. V. (*with* Shamaeva, O. Yu.) A scheme-functional approach to the realization of decomposition methods for inversion of large-dimension matrices. **89i:65031**
Brent, Richard P. *see* **Bojańczyk, A.; et al., 89i:65042**
Byrd, Richard H. (*with* Schnabel, Robert B.; Shultz, Gerald A.) Parallel quasi-Newton methods for unconstrained optimization. **89k:90139**
Chamberlain, R. M. (*with* Powell, M. J. D.) QR factorization for linear least-squares problems on a hypercube multiprocessor. **89k:65042**
Chang, H. Y. (*with* Utku, S.; Salama, M.) Eigenvalue computation of large symmetric tridiagonal matrices on concurrent processors. **89c:65043**
Chen, Zeng Rong Inversion of general tridiagonal matrices. (Chinese. English summary) **89b:65068**
Chu, Moody T. A note on the homotopy method for linear algebraic eigenvalue problems. **89g:65039**
Codenotti, B. Error analysis of an APA algorithm for the parallel solution of some special Toeplitz linear systems. **89b:65069**
— (*with* Favati, P.) Iterative methods for the parallel solution of linear systems. **89b:65075**
— *see also* **Bevilacqua, Roberto; et al., 89g:65024**
Coleman, Thomas F. (*with* Li, Guang Ye) Local convergence of the multi-secant method for the parallel solution of systems of nonlinear equations. **89i:65056**
Conforti, D. *see* **Grandinetti, L., 89k:90166**
Davidson, Edward S. *see* **Davis, Timothy A., 89k:65043**
Davis, Timothy A. (*with* Davidson, Edward S.) Pairwise reduction for the direct, parallel solution of sparse, unsymmetric sets of linear equations. **89k:65043**
Davitashvili, T. D. Some asynchronous iterative methods for solving nonlinear equations for parallel computer systems. (Russian. English and Georgian summaries) **89i:65052**
Dean, Edward J. (*with* Glowinski, R.; Li, Chin Hsien) Numerical solution of parabolic problems in high dimensions. **89c:65096**
De Matteis, A. (*with* Pagnutti, S.) Parallelization of random number generators and long-range correlations. **89h:65016**
(Dierstein, R.) *see* **Parallel computing in science and engineering, 89j:68012**
Doi, Shun (*with* Harada, Norio) Tridiagonal factorization algorithm: a preconditioner for nonsymmetric system solving on vector computers. **89d:65048**
Favati, P. *see* **Codenotti, B., 89b:65075**
Frederickson, Paul O. *see* **Benson, Maurice W., 89g:65046**
Gader, Paul D. Tridiagonal factorizations of Fourier matrices and applications to parallel computations of discrete Fourier transforms. **89f:65151**
Gilbert, John R. *see* **Zmijewski, Earl, 89d:65049**
Gilmour, A. E. Circulant matrix methods for the numerical solution of partial differential equations by FFT convolutions. **89a:65185**
Glowinski, R. *see* **Dean, Edward J.; et al., 89c:65096**
Goldstein, Max *see* **Bernstein, Herbert J., 89b:65090**
Grandinetti, L. (*with* Conforti, D.) Numerical comparisons of nonlinear programming algorithms on serial and vector processors using automatic differentiation. **89k:90166**
Guan, Xiao Zhi *see* **Wang, Neng Chao, 89h:35260**
Han, Shih-Ping (*with* Lou, Gang) A parallel algorithm for a class of convex programs. **89e:90159**
Harada, Norio *see* **Doi, Shun, 89d:65048**
Heidelberger, Philip Discrete event simulations and parallel processing: statistical properties. **89j:68152**
Ho, Ching-Tien *see* **Johnsson, S. Lennart, 89h:68045**
de Hoog, F. *see* **Bojańczyk, A.; et al., 89i:65042**
Hou, Luo Ming The best parallel algorithm for solving the regular linear iterative sequence. (Chinese. English summary) **89h:65214**
Hu, Jie *see* **Li, Lei, 89i:68060**
(Hwang, Kai) *see* **Proceedings: Conference on Parallel Processing, 89b:68010**
(Jacobs, Steven M.) *see* **Proceedings: Conference on Parallel Processing, 89b:68010**
Johnsson, S. Lennart (*with* Ho, Ching-Tien) Algorithms for matrix transposition on Boolean N-cube configured ensemble architectures. **89h:68045**
Kaltofen, Erich (*with* Krishnamoorthy, M. S.; Saunders, B. David) Fast parallel computation of Hermite and Smith forms of polynomial matrices. **89g:15004**
Kang, Li Shan Parallel algorithms and domain decomposition. **89f:65113**
Karimova, D. Kh. A parallel variant of a relaxation method. (Russian. Tajiki summary) **89g:65033**
Kaur, D. (*with* Wallach, Y.) Parallel methods for tridiagonal equations. (German summary) **89h:65043**
Khalil, Mohammed (*with* Rigal, Alain) Convergence des méthodes SOR à paramètre variable. (English summary) [On the convergence of variable parameter point SOR methods] **89b:65249**
Khokhlyuk, V. I. ★ Параллельные алгоритмы целочисленной оптимизации. (Russian) [Parallel algorithms for integer optimization] **89a:90091**
Kincaid, David R. (*with* Oppe, Thomas C.) A parallel algorithm for the general LU factorization. (Not in MR)
Kindervater, G. A. P. (*with* Trienekens, H. W. J. M.) Experiments with parallel algorithms for combinatorial problems. **89a:90117**
Konig, Jean-Claude (*with* Robert, Yves; Trystram, Denis) Optimalité d'une classe d'algorithmes d'ordonnancement pour la méthode de Gauss en parallèle. (English summary) [Optimality of a class of scheduling algorithms for parallel Gaussian elimination] **89a:65048**
Kramosil, Ivan Extremum-searching hierarchical parallel probabilistic algorithms. **89h:90189**
Krishnamoorthy, M. S. *see* **Kaltofen, Erich; et al., 89g:15004**
Krist, S. E. *see* **Nosenchuck, D. M.; et al., 89k:76007**
Kuznetsov, I. B. ★ Параллельные формы алгоритма для решения рекурсивных задач. (Russian) [Parallel forms of an algorithm for solving recursive problems] **89j:65086**
Lasken, R. A. *see* **Zenios, Stavros A., 89h:90247**
Lazarov, R. D. (*with* Vassilevski, P. S.; Margenov, S. D.) Solving elliptic problems by the domain decomposition method using preconditioning matrices derived by multilevel splittings of the finite element matrix. **89b:65270**
Li, Chin Hsien *see* **Dean, Edward J.; et al., 89c:65096**
Li, Guang Ye *see* **Coleman, Thomas F., 89i:65056**
Li, Lei (*with* Hu, Jie) The complexity of sequential and parallel algorithms for the Vandermonde matrices. (Chinese. English summary) **89i:68060**
Liem, Chin Bo *see* **Lü, Tao; et al., 89a:65158**
Lou, Gang *see* **Han, Shih-Ping, 89e:90159**
Lü, Tao (*with* Shih, Tsi Min; Liem, Chin Bo) ★ Parallel algorithms for solving partial differential equations. **89a:65158**
Lu, Yi Jun A new parallel algorithm with WZ factorization. (Chinese. English summary) **89m:65044**
Margenov, S. D. *see* **Lazarov, R. D.; et al., 89b:65270**
Miekkala, Ulla (*with* Nevanlinna, Olavi) Sets of convergence and stability regions. **89i:65072**
Molchanov, I. N. Direct methods for solving systems of linear algebraic equations on a computer with multiple flow of commands and data. (Russian) **89b:65072**
(Müller-Wichards, D.) *see* **Parallel computing in science and engineering, 89j:68012**
Nedashkovskiĭ, N. A. A parallel direct method for solving systems of linear algebraic equations. (Russian. English summary) **89h:65045**
Nesterenko, B. B. (*with* Novotarskiĭ, M. A.) Investigation of features of the operation of multiprocessor systems for the realization of locally asynchronous computational methods. (Russian) **89f:68006**
Nevanlinna, Olavi *see* **Miekkala, Ulla, 89i:65072**
Nosenchuck, D. M. (*with* Krist, S. E.; Zang, T. A.) On multigrid methods for the Navier-Stokes computer. **89k:76007**
Noshchenko, O. È. An algorithm for solving integral equations by a variational-gradient method on a computer with parallel organization of computations. (Russian) **89f:65145**
Novotarskiĭ, M. A. *see* **Nesterenko, B. B., 89f:68006**
Oppe, Thomas C. *see* **Kincaid, David R.**, (Not in MR)
Ortega, James M. *see* **Romine, C. H., 89a:65049**

Pagnutti, S. *see* **De Matteis, A., 89h:65016**

Pan, V. (*with* Reif, John H.) Extension of the parallel nested dissection algorithm to path algebra problems. **89b:68033**

— Complexity of parallel matrix computations. **89d:68022**

Pasciak, Joseph E. Domain decomposition preconditioners for elliptic problems in two and three dimensions. (*see* **89j:65093**)

Petković, M. S. (*with* Stefanović, L. V.) On some parallel higher-order methods of Halley's type for finding multiple polynomial zeros. **89i:65053**

Phillips, A. T. (*with* Rosen, J. B.) A parallel algorithm for constrained concave quadratic global minimization. **89j:90199**

de Pillis, J. Tensor equivalents for solution of linear systems: a parallel algorithm. **89b:65083**

Powell, M. J. D. *see* **Chamberlain, R. M., 89k:65042**

Reif, John H. *see* **Pan, V., 89b:68033**

Rigal, Alain *see* **Khalil, Mohammed, 89b:65249**

Robert, Yves *see* **Konig, Jean-Claude; et al., 89a:65048**

Romani, F. *see* **Bevilacqua, Roberto; et al., 89g:65024**

Romine, C. H. (*with* Ortega, James M.) Parallel solution of triangular systems of equations. **89a:65049**

Rosen, J. B. *see* **Phillips, A. T., 89j:90199**

Salama, M. *see* **Chang, H. Y.; et al., 89c:65043**

Saunders, B. David *see* **Kaltofen, Erich; et al., 89g:15004**

Schmeiser, Bruce *see* **Song, Wheyming Tina, 89j:62130**

Schnabel, Robert B. Concurrent function evaluations in local and global optimization. **89d:90201**

— *see also* **Byrd, Richard H.; et al., 89k:90139**

Shamaeva, O. Yu. *see* **Borzdova, T. V., 89i:65031**

Shao, Jian Ping Schwarz alternating method and multigrid method. **89g:65151**

Shih, Tsi Min *see* **Lü, Tao; et al., 89a:65158**

Shultz, Gerald A. *see* **Byrd, Richard H.; et al., 89k:90139**

Song, Wheyming Tina (*with* Schmeiser, Bruce) On the dispersion matrix of variance estimators of the sample mean in the analysis of simulation output. **89j:62130**

Spedicato, E. A class of algorithms for sequential and parallel solution of systems of linear and nonlinear equations. (Chinese. English summary) **89k:65044**

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Sukhov, E. G. Cellular parallel method for solving linear algebraic systems of equations. (Not in MR)

(Swartzlander, Earl E.) *see* **Proceedings: Conference on Parallel Processing, 89b:68010**

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Thole, Clemens-August (*with* Trottenberg, Ulrich) A short note on standard parallel multigrid algorithms for 3D problems. **89e:65136**

Trienekens, H. W. J. M. *see* **Kindervater, G. A. P., 89a:90117**

Trottenberg, Ulrich *see* **Thole, Clemens-August, 89e:65136**

Trystram, Denis *see* **Konig, Jean-Claude; et al., 89a:65048**

Utku, S. *see* **Chang, H. Y.; et al., 89c:65043**

Van Dooren, Paul *see* **Bojańczyk, A.; et al., 89i:65042**

Van Loan, Charles A block QR factorization scheme for loosely coupled systems of array processors. (*see* **89b:00029**)

Vassilevski, P. S. *see* **Lazarov, R. D.; et al., 89b:65270**

(Wacker, H.-M.) *see* **Parallel computing in science and engineering, 89j:68012**

Wallach, Y. *see* **Kaur, D., 89h:65043**

Wang, Neng Chao (*with* Guan, Xiao Zhi) A bisection technique for parallel solution of a class of recurrence problems. (Chinese. English summary) **89h:35260**

Zang, T. A. *see* **Nosenchuck, D. M.; et al., 89k:76007**

Zenios, Stavros A. (*with* Lasken, R. A.) Nonlinear network optimization on a massively parallel connection machine. **89h:90247**

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Zheng, Shi Ming On convergence of a parallel algorithm for finding the roots of a polynomial. (Chinese) **89h:65082**

Zmijewski, Earl (*with* Gilbert, John R.) A parallel algorithm for sparse symbolic Cholesky factorization on a multiprocessor. **89d:65049**

Items listed otherwise than by author

Bonn ★ Parallel computing in science and engineering. **89j:68012**

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Parallel computing in science and engineering ★ Parallel computing in science and engineering. **89j:68012**

Proceedings:

Conference on Parallel Processing ★ Proceedings of the 1986 International Conference on Parallel Processing. **89b:68010**

Seminar:

Foundations of Engineering Sciences ★ Parallel computing in science and engineering. **89j:68012**

68–XX Computer science {For papers involving machine computations and programs in a specific mathematical area, see section –04 in that area.}

68–00 Handbooks, dictionaries, and other reference works

Fisher, Renée ★ Dictionnaire informatique anglais-français. (French) [English-French dictionary of data processing] **89c:68001**

Items listed otherwise than by author

Dictionary:

Data processing, English-French *see* **Fisher, Renée, 89c:68001**

Items with secondary classifications in 68–00

(Barr, Avron) *see* **Handbook: Artificial intelligence, 89e:68104a** *and* **89e:68104b**

(Cohen, Paul R.) *see* **Handbook: Artificial intelligence, 89e:68104c**

(Feigenbaum, Edward A.) *see* **Handbook: Artificial intelligence, 89e:68104a; 89e:68104b** *and* **89e:68104c**

Items listed otherwise than by author

Handbook:

Artificial intelligence ★ The handbook of artificial intelligence. Vol. I. **89e:68104a**

— ★ The handbook of artificial intelligence. Vol. II. **89e:68104b**

— ★ The handbook of artificial intelligence. Vol. III. **89e:68104c**

Index:

Sci. Comput. Programming Master index of Volumes 1–10. (Not in MR)

Theoret. Comput. Sci. Master index volumes 51–60. (Not in MR)

68–01 Elementary exposition; textbooks

Brassard, Gilles (*with* Bratley, Paul) ★ Algorithmique. (French) [Computer algorithms] **89d:68001**

Bratley, Paul *see* **Brassard, Gilles, 89d:68001**

Crossley, John N. Algorithms: theory and practice. (Not in MR)

Froidevaux, Christine *see* **Gaudel, Marie-Claude; et al., 89a:68001a** *and* **89a:68001b**

Gaudel, Marie-Claude (*with* Soria, Michèle; Froidevaux, Christine) ★ Types de données et algorithmes. Vol. I. (French) [Data types and algorithms. Vol. I] **89a:68001a**

— (*with* Soria, Michèle; Froidevaux, Christine) ★ Types de données et algorithmes. Vol. II. (French) [Data types and algorithms. Vol. II] **89a:68001b**

Harel, David ★ Algorithmics. **89b:68001**

Márkus, Gábor *see* **Márkusz, Zsuzsa**, (Not in MR)

Márkusz, Zsuzsa (*with* Márkus, Gábor) Logic puzzles and logic programming. I. (Not in MR)

Pandu Rangan, C. Introduction to design and analysis of algorithms. (*see* **89h:00004**)

Parberry, Ian ★ Parallel complexity theory. **89b:68002**

Schöning, Uwe ★ Logik für Informatiker. (German) [Logic for computer scientists] **89e:68001**

Soria, Michèle *see* **Gaudel, Marie-Claude; et al., 89a:68001a** *and* **89a:68001b**

Wirth, Niklaus ★ Algorithmen und Datenstrukturen mit Modula-2. (German) [Algorithms and data structures with Modula-2] **89a:68002**

Items with secondary classifications in 68–01

Adel′son-Vel′skiĭ, G. M. *see* **Kuznetsov, O. P., 89k:00002**

Aigner, M. ★ Combinatorial search. **89k:68021**

Althoen, S. C. (*with* Bumcrot, Robert J.) ★ Introduction to discrete mathematics. **89f:05001**

Arbib, Michael A. ★ Brains, machines, and mathematics. **89h:68034**

— *see also* **Moll, Robert N.; et al., 89j:68084**

Bochmann, D. *see* **Posthoff, C.; et al., 89b:00003**

Bumcrot, Robert J. *see* **Althoen, S. C., 89f:05001**

Cohen, Daniel E. ★ Computability and logic. **89b:03001**

(Farreny, Henri) *see* **Nilsson, Nils J., 89e:68103**

Fitting, Melvin ★ Computability theory, semantics, and logic programming. **89e:68027**

Graham, Ian (*with* Jones, Peter Llewelyn) ★ Expert systems. **89m:68130**

Haubold, K. *see* **Posthoff, C.; et al., 89b:00003**

Henson, Martin C. ★ Elements of functional languages. **89j:68099**

Jones, Peter Llewelyn *see* **Graham, Ian, 89m:68130**

Kfoury, A. J. *see* **Moll, Robert N.; et al., 89j:68084**

Kuznetsov, O. P. (*with* Adel′son-Vel′skiĭ, G. M.) ★ Дискретная математика для инженера. (Russian) [Discrete mathematics for the engineer] **89k:00002**

Latyshev, V. N. ★ Комбинаторная теория колец. (Russian) [Combinatorial ring theory] **89k:68068**

(Manago, Anne) *see* **Nilsson, Nils J., 89e:68103**

(Manago, Michel) *see* **Nilsson, Nils J., 89e:68103**

Mäntylä, Martti ★ An introduction to solid modeling. **89g:68069**

Marcus, Solomon Mathématique et linguistique. (English summary) [Mathematics and linguistics] (Not in MR)

Moll, Robert N. (*with* Arbib, Michael A.; Kfoury, A. J.) ★ An introduction to formal language theory. **89j:68084**

Murogov, V. N. *see* **Proĭdakov, È. M.**, (Not in MR)

Naftalin, Maurice Correctness for beginners. (*see* **89m:68093**)

Nilsson, Nils J. ★ Principes d'intélligence artificielle. (French) [Principles of artificial intelligence] **89e:68103**

O'Rourke, Joseph ★ Art gallery theorems and algorithms. **89f:68067**

Pilz, Günter F. ★ Endliche Strukturen. (German) [Finite structures] **89g:00002**

Posthoff, C. (*with* Bochmann, D.; Haubold, K.) ★ Diskrete Mathematik. (German) [Discrete mathematics] **89b:00003**

Proĭdakov, È. M. (*with* Murogov, V. N.) ★ Пакет программ "Символьная математика". (Russian) [The program package "Symbolic mathematics"] (Not in MR)

(Pustejovsky, James) *see* **Moll, Robert N.; et al.**, **89j:68084**

Robbiano, Lorenzo Algebra and computers. (Italian. English summary) **89i:00010**

(Valette, François-Régis) *see* **Nilsson, Nils J.**, **89e:68103**

68–02 Advanced exposition (research surveys, monographs, etc.)

(Börger, Egon) *see* **Trends in theoretical computer science**, **89m:68002**

(Bul'onkova, A. A.) *see* **Hoare, C. A. R.**, **89k:68001**

Danforth, Scott (*with* Tomlinson, Chris) Type theories and object-oriented programming. (Not in MR)

(Dijkstra, Edsger W.) *see* **Hoare, C. A. R.**, **89b:68003**

(Ershov, A. P.) *see* **Hoare, C. A. R.**, **89k:68001**

Hoare, C. A. R. ★ Communicating sequential processes. **89b:68003**

— ★ Взаимодействующие последовательные процессы. (Russian) [Communicating sequential processes] **89k:68001**

Lloyd, J. W. ★ Foundations of logic programming. **89b:68004**

Mace, Mary E. ★ Memory storage patterns in parallel processing. **89m:68001**

Takagi, Hideaki Queuing analysis of polling models. **89f:68001**

Tomlinson, Chris *see* **Danforth, Scott**, (Not in MR)

Items listed otherwise than by author

Lectures:

Computation theory ★ Trends in theoretical computer science. **89m:68002**

Trends in theoretical computer science ★ Trends in theoretical computer science. **89m:68002**

Udine ★ Trends in theoretical computer science. **89m:68002**

Items with secondary classifications in 68–02

Aalbersberg, IJsbrand Jan (*with* Rozenberg, Grzegorz) Theory of traces. **89j:68042**

Ahlswede, Rudolf (*with* Wegener, Ingo) ★ Search problems. **89c:68019**

Alad'ev, V. Z. Survey on some theoretical results and applicability aspects in parallel computation modelling. (Russian summary) (Not in MR)

Aven, P. O. (*with* Muchnik, I. B.; Oslon, A. A.) ★ Функциональное шкалирование. (Russian) [Functional scaling] **89m:68025**

Baba, Norio ★ New topics in learning automata theory and applications. **89g:68060**

Benninghofen, Benjamin (*with* Kemmerich, S.; Richter, Michael M.) ★ Systems of reductions. **89a:68132**

Bezem, Marc Logic programming and PROLOG. (Not in MR)

Book, Ronald V. Separating relativized complexity classes. **89e:68034**

Calude, Cristian ★ Theories of computational complexity. **89g:03057**

(Cercone, Nick) *see* **Knowledge frontier**, **89a:68200**

Chang, Chin Liang (*with* Lee, Richard C. T.) ★ Symbolic logic and mechanical theorem proving. **89i:68112**

Colbourn, Charles J. Exact algorithms for network reliability. **89b:68014**

— ★ The combinatorics of network reliability. **89h:68001**

Fenstad, Jens Erik Natural language systems. (*see* **89j:68126**)

von zur Gathen, Joachim Feasible arithmetic computations: Valiant's hypothesis. **89f:68021**

Greene, Daniel H. (*with* Knuth, Donald E.) ★ Математические методы анализа алгоритмов. (Russian) [Mathematical methods for the analysis of algorithms] **89a:68101**

Grigor'ev, D. Yu. Computational complexity in polynomial algebra. **89e:68063**

Håstad, Johan Lower bounds in computational complexity theory. **89e:68048**

Heideman, Michael T. ★ Multiplicative complexity, convolution, and the DFT. **89i:94006**

Hofri, Micha ★ Probabilistic analysis of algorithms. **89g:68025**

(Howie, A.) *see* **Pin, J.-E.**, **89a:68125**

Ibaraki, Toshihide (*with* Katoh, Naoki) ★ Resource allocation problems. **89e:90179**

Inoue, Katsushi (*with* Takanami, Itsuo) A survey of two-dimensional automata theory. (*see* **89g:68002**)

Jorrand, Philippe Fundamental mechanisms for artificial intelligence programming languages. An introduction. (*see* **89j:68126**)

Karhumäki, Juhani The equivalence of mappings on languages. **89g:68039**

Kas'yanov, V. N. ★ Оптимизирующие преобразования программ. (Russian) [Optimizing transformations of programs] **89k:68017**

Katoh, Naoki *see* **Ibaraki, Toshihide**, **89e:90179**

Kemmerich, S. *see* **Benninghofen, Benjamin; et al.**, **89a:68132**

Knuth, Donald E. *see* **Greene, Daniel H.**, **89a:68101**

Kohonen, Teuvo ★ Self-organization and associative memory. **89c:68085**

Kröger, Fred ★ Temporal logic of programs. **89i:68084**

Lee, Richard C. T. *see* **Chang, Chin Liang**, **89i:68112**

(Matiyasevich, Yu. V.) *see* **Greene, Daniel H.**, **89a:68101**

(McCalla, Gordon) *see* **Knowledge frontier**, **89a:68200**

Muchnik, I. B. *see* **Aven, P. O.; et al.**, **89m:68025**

Oslon, A. A. *see* **Aven, P. O.; et al.**, **89m:68025**

(Otto, Friedrich) *see* **Benninghofen, Benjamin; et al.**, **89a:68132**

Paulson, Lawrence C. ★ Logic and computation. **89e:68087**

Păun, Gh. Some recent restrictions in the derivation of context-free grammars. **89b:68044**

Pin, J.-E. ★ Varieties of formal languages. **89a:68125**

(Pokhodzeĭ, B. B.) *see* **Greene, Daniel H.**, **89a:68101**

Pospelov, D. A. Artificial intelligence studies in the Soviet Union. (Russian summary) (Not in MR)

Reisig, Wolfgang ★ Petrinetze. (German) [Petri nets] **89b:68051**

Reiter, Raymond Nonmonotonic reasoning. **89g:68059**

Richter, Michael M. *see* **Benninghofen, Benjamin; et al.**, **89a:68132**

Rozenberg, Grzegorz *see* **Aalbersberg, IJsbrand Jan**, **89j:68042**

Ruján, Pál Cellular automata and statistical mechanical models. **89h:68113**

Schönhage, Arnold Equation solving in terms of computational complexity. **89h:68071**

(Schützenberger, Marcel-Paul) *see* **Pin, J.-E.**, **89a:68125**

Semenov, A. L. (*with* Uspenskiĭ, V. A.) Mathematical logic in computer science and computer programming. (Russian) **89a:03061**

Shastri, Lokendra ★ Semantic networks: an evidential formalization and its connectionist realization. **89m:68126**

Smolka, Gert Logic programming with polymorphically order-sorted types. (*see* **89j:68002**)

Snyers, Dominique (*with* Thayse, André) ★ From logic design to logic programming. **89g:68063**

Starke, Peter H. ★ Sieci Petri. (Polish) [Petri nets] **89b:68052**

Takanami, Itsuo *see* **Inoue, Katsushi**, (**89g:68002**)

Thayse, André *see* **Snyers, Dominique**, **89g:68063**

Turakainen, Paavo Characterizations of simple transducers and principal semi-AFLs in terms of morphisms and inverse morphisms. (German and Russian summaries) **89b:68042**

Uspenskiĭ, V. A. *see* **Semenov, A. L.**, **89a:03061**

Wegener, Ingo *see* **Ahlswede, Rudolf**, **89c:68019**

Wiedermann, Juraj ★ Searching algorithms. **89d:68004**

(Wotschke, Jean E.) *see* **Ahlswede, Rudolf**, **89c:68019**

(Żurek, Jacek) *see* **Starke, Peter H.**, **89b:68052**

Items listed otherwise than by author

Knowledge frontier ★ The knowledge frontier. **89a:68200**

68–03 Historical (must also be assigned at least one classification number from Section 01)

Frøkjær, Erik *see* **Sveinsdottir, Edda**, (Not in MR)

Kranakis, Eda F. Early computers in The Netherlands. (Not in MR)

(Levinson, Stephen) *see* **Vysotsky, George**, (Not in MR)

Sveinsdottir, Edda (*with* Frøkjær, Erik) Datalogy—the Copenhagen tradition of computer science. (Not in MR)

Vysotsky, George ★ Automatic speech recognition research in the USSR. (Not in MR)

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Aspray, William The mathematical reception of the modern computer: John von Neumann and the Institute for Advanced Study computer. (*see* **89b:01002**)

Bennett, Charles H. Notes on the history of reversible computation. **89i:01045**

(Carpenter, B. E.) *see* **Turing's ACE report**, **89a:01045**

Davis, Martin Mathematical logic and the origin of modern computers. (*see* **89b:01002**)

(Doran, R. W.) *see* **Turing's ACE report**, **89a:01045**

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(Turing, A. M.) *see* **Turing's ACE report**, **89a:01045**

Items listed otherwise than by author

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68–04 Explicit machine computation and programs (not the theory of computation or programming)

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68–06 Proceedings, conferences, etc.

(Aiello, Luigia) *see* **Foundations of logic and functional programming, 89c:68005**
(Biskup, Joachim) *see* **MFDBS 87, 89a:68004**
(Boscarol, M.) *see* **Foundations of logic and functional programming, 89c:68005**
(Bublik, B. N.) *see* **Models and systems of information processing, 89j:68011**
(Cori, Robert) *see* **STACS 88, 89b:68011**
(Csuhaj-Varjú, E.) *see* **Proceedings: Meeting of Young Computer Scientists, 89g:68002**
(Dauchet, M.) *see* **CAAP '88, 89c:68003**
(Demetrovics, János) *see* **MFDBS 87, 89a:68004** *and* **Proceedings: Meeting of Young Computer Scientists, 89g:68002**
(Dierstein, R.) *see* **Parallel computing in science and engineering, 89j:68012**
(Earnshaw, R. A.) *see* **Theoretical foundations of computer graphics and CAD, 89a:68011**
(Ehrig, H.) *see* **Graph-grammars and their application to computer science, 89b:68009**
(Gécseg, F.) *see* **Conference: Automata, languages and programming systems, 89b:68007**
(Ginsberg, Matthew L.) *see* **Readings in nonmonotonic reasoning, 89m:68003**
(Grabowski, Jan) *see* **Algebraic and logic programming, 89j:68002**
(Gruska, J.) *see* **Special issue: International Symposium on Mathematical Foundations of Computer Science, 89c:68006**
(Haridi, Seif) *see* **IEEE Symposium: Logic Programming, 89j:68008**
(Hartmanis, Juris) *see* **ACM Symposium: Theory of Computing, 89j:68001**
(Hwang, Kai) *see* **Proceedings: Conference on Parallel Processing, 89b:68010**
(Jacobs, Steven M.) *see* **Proceedings: Conference on Parallel Processing, 89b:68010**
(Kannan, Ravindran) *see* **IEEE Symposium: Foundations of Computer Science, 89g:68001**
(Kapitonova, Yu. V.) *see* **Algorithms, software and hardware for computer systems, 89b:68006**
(Kapur, Deepak) *see* **Geometric reasoning, 89j:68007**
(Kelemen, Jozef) *see* **Proceedings: Meeting of Young Computer Scientists, 89g:68002**
(Keller, Robert M.) *see* **IEEE Symposium: Logic Programming, 89j:68008**
(Kott, L.) *see* **Colloquium: Automata, Languages and Programming, 89f:68002**
(Lagarias, J. C.) *see* **IEEE Conference: Foundations of Computer Science, 89f:68005**
(Lescanne, Pierre) *see* **Algebraic and logic programming, 89j:68002**
(Levi, G.) *see* **Foundations of logic and functional programming, 89c:68005** *and* **Conference: Theory and Practice of Software Development, 89f:68004**
(Lusk, Ewing L.) *see* **Conference: Automated Deduction, 89c:68004**
(Mahaney, Stephen R.) *see* **Conference: Structure in Complexity Theory,** (Not in MR)
(Main, Michael G.) *see* **Mathematical foundations of programming language semantics, 89a:68005**
(Manaster-Ramer, Alexis) *see* **Mathematics of language, 89a:68006**
(Mel'nikov, V. A.) *see* **Cybernetics and computer technology, 89j:68006**
(Melton, A. C.) *see* **Mathematical foundations of programming language semantics, 89a:68005**
(Mislove, Michael) *see* **Mathematical foundations of programming language semantics, 89a:68005**
(Montanari, Ugo) *see* **Conference: Theory and Practice of Software Development, 89f:68004**
(Morozov, A. A.) *see* **Theory and practice of the development and implementation of integrated automatic control systems, 89j:68014**
(Müller-Wichards, D.) *see* **Parallel computing in science and engineering, 89j:68012**
(Mundy, J. L.) *see* **Geometric reasoning, 89j:68007**
(Nagl, M.) *see* **Graph-grammars and their application to computer science, 89b:68009**
(Nivat, M.) *see* **CAAP '88, 89c:68003**
(Odlyzko, A. M.) *see* **Symposium: Theory of Computing, 89a:68010**
(Overbeek, R. A.) *see* **Conference: Automated Deduction, 89c:68004**
(Ovseevich, I. A.) *see* **Algorithms for processing experimental data, 89j:68003**
(Paredaens, Jan) *see* **MFDBS 87, 89a:68004**
(Peák, István) *see* **Papers on automata and languages, 89a:68007** *and* **Conference: Automata, languages and programming systems, 89b:68007**
(Pin, J.-E.) *see* **STACS 88, 89j:68013**
(Pogrebinskii, S. B.) *see* **Methods and means for designing discrete systems, 89j:68009**
(Pomerance, Carl) *see* **Advances in cryptology—CRYPTO '87, 89b:68005**
(Preparata, F. P.) *see* **Advances in computing research, 89a:68003**
(Robbiano, Lorenzo) *see* **Computational aspects of commutative algebra, 89j:68004**
(Rosenfeld, Azriel) *see* **Graph-grammars and their application to computer science, 89b:68009**
(Rozenberg, Grzegorz) *see* **Graph-grammars and their application to computer science, 89b:68009**
(Schmidt, David A.) *see* **Mathematical foundations of programming language semantics, 89a:68005**
(Silberschatz, A.) *see* **ACM Symposium: Principles of Database Systems, 89k:68002**
(Stognii, A. A.) *see* **Methods and means of information technology based on database and expert systems, 89j:68010**
(Swartzlander, Earl E.) *see* **Proceedings: Conference on Parallel Processing, 89b:68010**
(Thalheim, B.) *see* **MFDBS 87, 89a:68004**
(Wacker, H.-M.) *see* **Parallel computing in science and engineering, 89j:68012**
(Wechler, Wolfgang) *see* **Algebraic and logic programming, 89j:68002**
(Wirsing, M.) *see* **STACS 88, 89b:68011**
(Yushenko, E. L.) *see* **Methods for the realization of programming systems, 89k:68003**

Items listed otherwise than by author

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  Principles of Database Systems ★ Fifth Annual ACM SIGACT/SIGMOD Symposium on the Principles of Database Systems. **89k:68002**
  Theory of Computing ★ 18th Annual ACM Symposium on Theory of Computing. **89j:68001**
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Advances in cryptology—CRYPTO '87 ★ Advances in cryptology—CRYPTO '87. **89b:68005**
Algebraic and logic programming ★ Algebraic and logic programming. **89j:68002**
Algorithms for processing experimental data ★ Алгоритмы обработки экспериментальных данных. (Russian) [Algorithms for processing experimental data] **89j:68003**
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CAAP '88 ★ CAAP '88. **89c:68003**
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  Parallel Processing ★ Proceedings of the 1986 International Conference on Parallel Processing. **89b:68010**
  Structure in Complexity Theory ★ Structure in Complexity Theory Conference. (Not in MR)
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Foundations of logic and functional programming ★ Foundations of logic and functional programming. **89c:68005**
Gaussig ★ Rechnergestütztes Konstruieren. (German) [Computer-aided construction] **89j:68005**
— ★ Algebraic and logic programming. **89j:68002**
Geometric reasoning ★ Geometric reasoning. **89j:68007**
Graph-grammars and their application to computer science ★ Graph-grammars and their application to computer science. **89b:68009**
IEEE Conference:
  Foundations of Computer Science ★ 26th IEEE Conference on Foundations of Computer Science. **89f:68005**
IEEE Symposium:
  Foundations of Computer Science ★ Twenty-Seventh Annual IEEE Symposium on the Foundations of Computer Science. **89g:68001**
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Il Ciocco ★ Theoretical foundations of computer graphics and CAD. **89a:68011**
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Mathematical methods in software science and engineering ★ Sofutoueya kagaku, kogaku ni okeru suriteki hoho. [Mathematical methods in software science and engineering] **89i:68001**
Mathematics of language ★ Mathematics of language. **89a:68006**
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  - **Meeting of Young Computer Scientists** ★ Proceedings of the Fifth International Meeting of Young Computer Scientists. **89g:68002**
- **Providence, RI** ★ 17th Annual ACM Symposium on the Theory of Computing. **89a:68010**
- **Readings in nonmonotonic reasoning** ★ Readings in nonmonotonic reasoning. **89m:68003**
- **Rechnergestütztes Konstruieren** ★ Rechnergestütztes Konstruieren. (German) [Computer-aided construction] **89j:68005**
- **Rennes** ★ Thirteenth International Colloquium on Automata, Languages and Programming. **89f:68002**
- **Salgótarján** ★ Conference on automata, languages and programming systems. **89b:68007**
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  - **Foundations of Engineering Sciences** ★ Parallel computing in science and engineering. **89j:68012**
- **Smolenice Castle** ★ Proceedings of the Fifth International Meeting of Young Computer Scientists. **89g:68002**
- **Special issue:**
  - **Automata, Languages and Programming** ★ Thirteenth International Colloquium on Automata, Languages and Programming. **89f:68002**
  - **Conference on Theory and Practice of Software Development** ★ International Joint Conference on Theory and Practice of Software Development. **89f:68004**
- **Special Issue:**
  - **Geometric reasoning** ★ Geometric reasoning. **89j:68007**
  - **IEEE Symposium on Logic Programming** ★ Third IEEE Symposium on Logic Programming. **89j:68008**
- **Special issue:**
  - **International Symposium on Mathematical Foundations of Computer Science** ★ International Symposium on Mathematical Foundations of Computer Science. **89c:68006**
  - **Structure in Complexity Theory Conference** ★ Structure in Complexity Theory Conference. (Not in MR)
- **STACS 88** ★ STACS 88. **89b:68011**
- — ★ STACS 88. **89j:68013**
- **Symposium:**
  - **Computer-Aided Construction** ★ Rechnergestütztes Konstruieren. (German) [Computer-aided construction] **89j:68005**
  - **Foundation of computation algorithms** ★ Foundation of computation algorithms. (Japanese) **89b:68008**
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  - **Logic Programming** ★ 1987 Symposium on Logic Programming. **89a:68009**
  - **Mathematical Foundations of Computer Science** ★ International Symposium on Mathematical Foundations of Computer Science. **89c:68006**
  - **Mathematical Fundamentals of Database Systems** ★ MFDBS 87. **89a:68004**
  - **Mathematical Methods in Software Science and Engineering** ★ Sofutoueya kagaku, kogaku ni okeru suriteki hoho. [Mathematical methods in software science and engineering] **89i:68001**
  - **Theoretical Aspects of Computer Science** ★ STACS 88. **89b:68011**
  - — ★ STACS 88. **89j:68013**
  - **Theory of Computing** ★ 17th Annual ACM Symposium on the Theory of Computing. **89a:68010**
- **Theoretical foundations of computer graphics and CAD** ★ Theoretical foundations of computer graphics and CAD. **89a:68011**
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- **Toronto, ON** ★ Twenty-Seventh Annual IEEE Symposium on the Foundations of Computer Science. **89g:68001**
- **Trento** ★ Foundations of logic and functional programming. **89c:68005**
- **Warrenton, VA** ★ Graph-grammars and their application to computer science. **89b:68009**
- **Workshop:**
  - **Algebraic and Logic Programming** ★ Algebraic and logic programming. **89j:68002**
  - **Foundations of Logic and Functional Programming** ★ Foundations of logic and functional programming. **89c:68005**
  - **Geometric Reasoning** ★ Geometric reasoning. **89j:68007**
  - **Graph-Grammars and their Application to Computer Science** ★ Graph-grammars and their application to computer science. **89b:68009**
  - **Mathematical Foundations of Programming Language Semantics** ★ Mathematical foundations of programming language semantics. **89a:68005**

Items with secondary classifications in 68–06

- **(Aĭzerman, M. A.)** *see* **Logical dependencies and systems decomposition analysis, 89j:68033**
- **(Ausiello, Giorgio)** *see* **Conference: Database Theory, 89i:68024**
- **(de Bakker, J. W.)** *see* **Conference: Parallel Architectures and Languages—Europe, 89j:68053**
- **(Banchoff, T. F.)** *see* **ECM/87. Educational computing in mathematics, 89f:00024**
- **(Beth, Th.)** *see* **Applicable algebra, error-correcting codes, combinatorics and computer algebra, 89b:94002**
- **(Bloomfield, R.)** *see* **VDM '88. VDM—the way ahead, 89m:68093**
- **(Börger, Egon)** *see* **Trends in theoretical computer science, 89m:68002**
- **(Capuzzo-Dolcetta, I.)** *see* **ECM/87. Educational computing in mathematics, 89f:00024**
- **(Choffrut, Christian)** *see* **Automata networks, 89c:68078**
- **(Clausen, M.)** *see* **Applicable algebra, error-correcting codes, combinatorics and computer algebra, 89b:94002**
- **(Dechamps-Gondim, Myriam)** *see* **ECM/87. Educational computing in mathematics, 89f:00024**
- **(Dekker, Th. J.)** *see* **Algorithms and applications on vector and parallel computers, 89f:65002**
- **(Denham, M. J.)** *see* **Advanced computing concepts and techniques in control engineering, 89g:93002**
- **(Emmer, M.)** *see* **ECM/87. Educational computing in mathematics, 89f:00024**
- **(Fujisaki, T.)** *see* **Logic programming '87, 89h:68137**
- **(Furukawa, Koichi)** *see* **Logic programming '87, 89h:68137**
- **(Gray, John W.)** *see* **Categories in computer science and logic, 89m:18001**
- **(Haken, Hermann)** *see* **Neural and synergetic computers, 89i:92026**
- **(Jones, Roger B.)** *see* **VDM '88. VDM—the way ahead, 89m:68093**
- **(Koçak, H.)** *see* **ECM/87. Educational computing in mathematics, 89f:00024**
- **(Laub, Alan J.)** *see* **Advanced computing concepts and techniques in control engineering, 89g:93002**
- **(Marshall, L.)** *see* **VDM '88. VDM—the way ahead, 89m:68093**
- **(Moore, R. E.)** *see* **Reliability in computing, 89j:65011**
- **(Nossum, Rolf T.)** *see* **Advanced topics in artificial intelligence, 89j:68126**
- **(te Riele, H. J. J.)** *see* **Algorithms and applications on vector and parallel computers, 89f:65002**
- **(Salinger, D. L.)** *see* **ECM/87. Educational computing in mathematics, 89f:00024**
- **(Scedrov, Andre)** *see* **Categories in computer science and logic, 89m:18001**
- **(Skordev, Dimit″r G.)** *see* **Mathematical logic and its applications, 89b:03004**
- **(Stone, Maureen C.)** *see* **SIGGRAPH '87, 89j:68151**
- **(Sushkov, B. G.)** *see* **Some algorithms for the planning of computations in deterministic real-time systems, 89e:68058**
- **(Tanaka, Hozumi)** *see* **Logic programming '87, 89h:68137**
- **(Toussaint, Godfried T.)** *see* **Computational morphology, 89k:68151**
- **(Treleaven, P. C.)** *see* **Conference: Parallel Architectures and Languages—Europe, 89j:68053**
- **(Voevodin, V. V.)** *see* **Computer architecture and numerical methods, 89m:65005**
- **(van der Vorst, Henk A.)** *see* **Algorithms and applications on vector and parallel computers, 89f:65002**
- **(Wouk, Arthur)** *see* **New computing environments: microcomputers in large-scale computing, 89f:65004**

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- **Advanced computing concepts and techniques in control engineering** ★ Advanced computing concepts and techniques in control engineering. **89g:93002**
- **Advanced topics in artificial intelligence** ★ Advanced topics in artificial intelligence. **89j:68126**
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- **All-Union Conference:**
  - **Local Computer Networks** ★ Локальные вычислительные сети. Том 1. (Russian) [Local computer networks. Vol. 1] **89m:68007a**
  - — ★ Локальные вычислительные сети. Том 2. (Russian) [Local computer networks. Vol. 2] **89m:68007b**
- **Amsterdam** ★ Algorithms and applications on vector and parallel computers. **89f:65002**
- **Anaheim, CA** ★ SIGGRAPH '87. **89j:68151**
- **Applicable algebra, error-correcting codes, combinatorics and computer algebra** ★ Applicable algebra, error-correcting codes, combinatorics and computer algebra. **89b:94002**
- **Argelès-Village** ★ Automata networks. **89c:68078**
- **Automata networks** ★ Automata networks. **89c:68078**
- **Boulder, CO** ★ Categories in computer science and logic. **89m:18001**
- **Categories in computer science and logic** ★ Categories in computer science and logic. **89m:18001**
- **Colloquium:**
  - **Numerical Aspects of Vector and Parallel Processors** ★ Algorithms and applications on vector and parallel computers. **89f:65002**
- **Computational morphology** ★ Computational morphology. **89k:68151**
- **Computer architecture and numerical methods** ★ Архитектура ЭВМ и численные методы. (Russian) [Computer architecture and numerical methods] **89m:65005**
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  - **Applicable Algebra, Error-Correcting Codes, Combinatorics and Computer Algebra** ★ Applicable algebra, error-correcting codes, combinatorics and computer algebra. **89b:94002**

Conference: (*cont'd.*)

Categories in Computer Science and Logic ★ Categories in computer science and logic. **89m:18001**

Computer Graphics and Interactive Techniques ★ SIGGRAPH '87. **89j:68151**

Database Theory ★ First International Conference on Database Theory. **89i:68024**

Logic and Computer Science: New Trends and Applications ★ Conference on Logic and Computer Science: New Trends and Applications. **89i:00024**

Logic Programming ★ Logic programming '87. **89h:68137**

Mathematical Logic and its Applications ★ Mathematical logic and its applications. **89b:03004**

Parallel Architectures and Languages—Europe ★ PARLE Conference on Parallel Architectures and Languages—Europe. **89j:68053**

Congress:

ECM/87. Educational Computing in Mathematics ★ ECM/87. Educational computing in mathematics. **89f:00024**

Contemporary Mathematics ★ Categories in computer science and logic. **89m:18001**

Druzhba ★ Mathematical logic and its applications. **89b:03004**

Dublin ★ VDM '88. VDM—the way ahead. **89m:68093**

ECM/87. Educational computing in mathematics ★ ECM/87. Educational computing in mathematics. **89f:00024**

Eindhoven ★ PARLE Conference on Parallel Architectures and Languages—Europe. **89j:68053**

Fundamental numerical algorithms and their software ★ Suchi keisan kihon arugorizumu to sono sofutouea no kenkyu. (Japanese) [Fundamental numerical algorithms and their software] **89e:65003**

Il Ciocco ★ Advanced computing concepts and techniques in control engineering. **89g:93002**

Karlsruhe ★ Applicable algebra, error-correcting codes, combinatorics and computer algebra. **89b:94002**

Lecture Notes in Computer Science ★ Applicable algebra, error-correcting codes, combinatorics and computer algebra. **89b:94002**

— ★ Automata networks. **89c:68078**

— ★ Logic programming '87. **89h:68137**

— ★ Advanced topics in artificial intelligence. **89j:68126**

— ★ VDM '88. VDM—the way ahead. **89m:68093**

Lectures:

Computation theory ★ Trends in theoretical computer science. **89m:68002**

Local computer networks ★ Локальные вычислительные сети. Том 1. (Russian) [Local computer networks. Vol. 1] **89m:68007a**

— ★ Локальные вычислительные сети. Том 2. (Russian) [Local computer networks. Vol. 2] **89m:68007b**

Logic programming '87 ★ Logic programming '87. **89h:68137**

Logical dependencies and systems decomposition analysis ★ Logical dependencies and systems decomposition analysis. **89j:68033**

Mathematical logic and its applications ★ Mathematical logic and its applications. **89b:03004**

NATO Advanced Study Institute:

Application of Advanced Computing Concepts and Techniques in Control Engineering ★ Advanced computing concepts and techniques in control engineering. **89g:93002**

Neural and synergetic computers ★ Neural and synergetic computers. **89i:92026**

New computing environments: microcomputers in large-scale computing ★ New computing environments: microcomputers in large-scale computing. **89f:65004**

Newark, DE ★ New computing environments: microcomputers in large-scale computing. **89f:65004**

Oslo ★ Advanced topics in artificial intelligence. **89j:68126**

Reliability in computing ★ Reliability in computing. **89j:65011**

Riga ★ Локальные вычислительные сети. Том 1. (Russian) [Local computer networks. Vol. 1] **89m:68007a**

— ★ Локальные вычислительные сети. Том 2. (Russian) [Local computer networks. Vol. 2] **89m:68007b**

Rome ★ ECM/87. Educational computing in mathematics. **89f:00024**

— ★ First International Conference on Database Theory. **89i:68024**

Schloss Elmau ★ Neural and synergetic computers. **89i:92026**

School:

Mathematical Logic and its Applications ★ Mathematical logic and its applications. **89b:03004**

Theoretical Computer Science ★ Automata networks. **89c:68078**

SIGGRAPH '87 ★ SIGGRAPH '87. **89j:68151**

Some algorithms for the planning of computations in deterministic real-time systems ★ Некоторые алгоритмы планирования вычислений в детерминированных системах реального времени. (Russian) [Some algorithms for the planning of computations in deterministic real-time systems] **89e:68058**

Special Issue:

Conference on Database Theory ★ First International Conference on Database Theory. **89i:68024**

Logical dependencies and systems decomposition analysis ★ Logical dependencies and systems decomposition analysis. **89j:68033**

Symposium:

Fundamental Numerical Algorithms and their Software ★ Suchi keisan kihon arugorizumu to sono sofutouea no kenkyu. (Japanese) [Fundamental numerical algorithms and their software] **89e:65003**

Neural and Synergetic Computers ★ Neural and synergetic computers. **89i:92026**

VDM—The Way Ahead ★ VDM '88. VDM—the way ahead. **89m:68093**

Tokyo ★ Logic programming '87. **89h:68137**

Trends in theoretical computer science ★ Trends in theoretical computer science. **89m:68002**

Turin ★ Conference on Logic and Computer Science: New Trends and Applications. **89i:00024**

Udine ★ Trends in theoretical computer science. **89m:68002**

VDM '88. VDM—the way ahead ★ VDM '88. VDM—the way ahead. **89m:68093**

Workshop:

Microcomputers in Large-Scale Scientific Computing ★ New computing environments: microcomputers in large-scale computing. **89f:65004**

68Mxx Computers and computer systems

68M05 General

Klir, G. J. The future of information, computer, and systems sciences. **89m:68004**

Nesterenko, B. B. (*with* Novotarskiĭ, M. A.) Investigation of features of the operation of multiprocessor systems for the realization of locally asynchronous computational methods. (Russian) **89f:68006**

Noguchi, Shoichi Bio-mathematical approach to a new-generation computer. (*see* **89f:92002**)

Novotarskiĭ, M. A. *see* **Nesterenko, B. B., 89f:68006**

Items with secondary classifications in 68M05

Casti, J. Engineering control systems and computing in the 90s. **89e:93004**

Morrison, John F. Parallel p-adic computation. **89m:68105**

Pomerance, Carl (*with* Smith, Jeffrey W.; Tuler, Randy) A pipeline architecture for factoring large integers with the quadratic sieve algorithm. **89f:11168**

Smith, Jeffrey W. *see* **Pomerance, Carl; et al., 89f:11168**

Tenenbaum, M. D. A two-level model of a multiprocessor computer system. (Russian. Armenian summary) (Not in MR)

Tuler, Randy *see* **Pomerance, Carl; et al., 89f:11168**

68M10 Computer networks

Ae, Tadashi *see* **Matsumoto, Hiroshi; et al.**, (Not in MR)

Becker, Bernd (*with* Simon, Hans-Ulrich) How robust is the n-cube? **89m:68005**

Bhargava, Bharat (*with* Ng, Peter Lei) A dynamic majority determination algorithm for reconfiguration of network partitions. (Not in MR)

Bienstock, Daniel Asymptotic analysis of some network reliability models. **89e:68002**

Bodlaender, H. L. ★ Distributed computing: structure and complexity. **89j:68015**

Bracha, Gabriel Asynchronous Byzantine agreement protocols. **89a:68012**

Broder, Andrei (*with* Dolev, Danny; Fischer, Michael) Efficient fault-tolerant routings in networks. **89f:68007**

Burns, James E. (*with* Lynch, Nancy) The Byzantine firing squad problem. **89i:68002**

Cherkassky, Vladimir (*with* Malek, Miroslaw) Partitioning and permuting properties of CC-banyan networks. **89k:68004**

Choi, Hyeong-Ah (*with* Hakimi, S. Louis) Data transfers in networks. **89j:68016**

Colbourn, Charles J. ★ The combinatorics of network reliability. **89h:68001**

Cunha, Wagner Chiepa *see* **Matsumoto, Hiroshi; et al.**, (Not in MR)

Daley, Robert P. *see* **Ramarao, K. V. S.; et al.**, (Not in MR)

Dolev, Danny *see* **Broder, Andrei; et al., 89f:68007**

Dwork, Cynthia (*with* Lynch, Nancy; Stockmeyer, Larry) Consensus in the presence of partial synchrony. **89c:68008**

Elmagarmid, Ahmed K. (*with* Soundararajan, Neelam; Liu, Ming T.) A distributed deadlock detection and resolution algorithm and its correctness proof. (Not in MR)

Fedortsov, S. P. *see* **Tsybakov, B. S., 89h:68005**

Fischer, Michael *see* **Broder, Andrei; et al., 89f:68007**

Gečas, Kastytis On the structure of the interrelation predicate. (Russian. English and Lithuanian summaries) **89h:68002**

Hakimi, S. Louis *see* **Choi, Hyeong-Ah, 89j:68016**

Helary, J.-M. (*with* Plouzeau, N.; Raynal, M.) A distributed algorithm for mutual exclusion in an arbitrary network. (Not in MR)

Imase, Makoto (*with* Manabe, Yoshifumi) Fault-tolerant routing in a κ-connected network. **89k:68005**

Itai, Alon (*with* Rodeh, Michael) The multi-tree approach to reliability in distributed networks. **89k:68006**

Jaffe, Jeffrey M. (*with* Rosberg, Zvi) Maximal throughput in a tandem multi-hop radio network. **89k:68007**

Koo, Richard (*with* Toueg, Sam) Effects of message loss on the termination of distributed protocols. (Not in MR)

Korach, E. (*with* Moran, Shlomo; Zaks, S.) The optimality of distributive constructions of minimum weight and degree restricted spanning trees in a complete network of processors. **89b:68012**

Kruskal, Clyde P. (*with* Snir, Marc; Weiss, Alan) The distribution of waiting times in clocked multistage interconnection networks. **89k:68008**

Ladin, Rivka (*with* Liskov, Barbara; Shrira, Liuba) A technique for constructing highly available services. **89m:68006**

Ledak, L. P. (*with* Sushkov, B. G.) Optimal aggregation in a single-server problem. (Russian) (*see* **89e:68058**)

Leiss, Ernst L. On efficient embeddings of communication structures.

Liskov, Barbara *see* **Ladin, Rivka; et al., 89m:68006**

Liu, Ming T. *see* **Elmagarmid, Ahmed K.; et al.**, (Not in MR)

Loui, Michael C. (*with* Matsushita, Teresa A.; West, Douglas B.) Corrigendum: "Election in a complete network with a sense of direction" [Inform. Process. Lett. 22 (1986), no. 4, 185–187]. (Not in MR)

Lynch, Nancy *see* **Dwork, Cynthia; et al., 89c:68008; Welch, Jennifer Lundelius, 89f:68009** *and* **Burns, James E., 89i:68002**

Malek, Miroslaw *see* **Cherkassky, Vladimir, 89k:68004**

Manabe, Yoshifumi *see* **Imase, Makoto, 89k:68005**

Marchetti-Spaccamela, A. New protocols for the election of a leader in a ring. **89c:68009**

Matsumoto, Hiroshi (*with* Cunha, Wagner Chiepa; Yamashita, Masafumi; Ae, Tadashi) Time complexity of response time estimation of multichannel communication networks. (Not in MR)

Matsushita, Teresa A. *see* **Loui, Michael C.; et al.**, (Not in MR)

Melhem, Rami *see* **Ramarao, K. V. S.; et al.**, (Not in MR)

Moran, Shlomo (*with* Wolfstahl, Yaron) Extended impossibility results for asynchronous complete networks. **89f:68008**

— *see also* **Korach, E.; et al., 89b:68012**

Mullender, Sape J. (*with* Vitányi, Paul M. B.) Distributed match-making. **89k:68009**

Ng, Peter Lei *see* **Bhargava, Bharat**, (Not in MR)

Pakshtas, A. A. Handling deadlocks and other exceptional situations in the programming of distributed computer control systems. (Russian) (Not in MR)

Pippenger, Nicholas Reliable computation in the presence of noise. **89h:68003**

Plouzeau, N. *see* **Helary, J.-M.; et al.**, (Not in MR)

Ramarao, K. V. S. (*with* Daley, Robert P.; Melhem, Rami) Message complexity of the set intersection problem. (Not in MR)

Raynal, M. *see* **Helary, J.-M.; et al.**, (Not in MR)

Rodeh, Michael *see* **Itai, Alon, 89k:68006**

Rosberg, Zvi *see* **Jaffe, Jeffrey M., 89k:68007**

Shrira, Liuba *see* **Ladin, Rivka; et al., 89m:68006**

Simon, Hans-Ulrich *see* **Becker, Bernd, 89m:68005**

Snir, Marc *see* **Kruskal, Clyde P.; et al., 89k:68008**

Soundararajan, Neelam *see* **Elmagarmid, Ahmed K.; et al.**, (Not in MR)

Soviš, František On rearrangeable networks of the shuffle-exchange type. (Russian summary) **89h:68004**

Stockmeyer, Larry *see* **Dwork, Cynthia; et al., 89c:68008**

Sushkov, B. G. *see* **Ledak, L. P.**, (**89e:68058**)

Tiwari, Prasoon Lower bounds on communication complexity in distributed computer networks. **89a:68013**

Toueg, Sam *see* **Koo, Richard**, (Not in MR)

Tsybakov, B. S. (*with* Fedortsov, S. P.) Characteristics of a random multiple access stack algorithm for its use in a local network. (Russian) **89h:68005**

Turski, W. M. Time considered irrelevant for real-time systems. (Not in MR)

Vitányi, Paul M. B. *see* **Mullender, Sape J., 89k:68009**

Weiss, Alan *see* **Kruskal, Clyde P.; et al., 89k:68008**

Welch, Jennifer Lundelius (*with* Lynch, Nancy) A new fault-tolerant algorithm for clock synchronization. **89f:68009**

West, Douglas B. *see* **Loui, Michael C.; et al.**, (Not in MR)

Wolfstahl, Yaron *see* **Moran, Shlomo, 89f:68008**

Yamashita, Masafumi *see* **Matsumoto, Hiroshi; et al.**, (Not in MR)

Zaks, S. *see* **Korach, E.; et al., 89b:68012**

Items listed otherwise than by author

All-Union Conference:

  Local Computer Networks ★ Локальные вычислительные сети. Том 1. (Russian) [Local computer networks. Vol. 1] **89m:68007a**

  — ★ Локальные вычислительные сети. Том 2. (Russian) [Local computer networks. Vol. 2] **89m:68007b**

Local computer networks ★ Локальные вычислительные сети. Том 1. (Russian) [Local computer networks. Vol. 1] **89m:68007a**

— ★ Локальные вычислительные сети. Том 2. (Russian) [Local computer networks. Vol. 2] **89m:68007b**

Riga ★ Локальные вычислительные сети. Том 1. (Russian) [Local computer networks. Vol. 1] **89m:68007a**

— ★ Локальные вычислительные сети. Том 2. (Russian) [Local computer networks. Vol. 2] **89m:68007b**

Items with secondary classifications in 68M10

Akers, Sheldon B. (*with* Krishnamurthy, Balakrishnan) A group-theoretic model for symmetric interconnection networks. **89k:68115**

Akimaru, Haruo (*with* Ikeda, Tatsuhiko; Takahashi, Haruhisa) Optimum design of alternative routing systems with partial overflow scheme. **89h:90093**

Attiya, Hagit (*with* Mansour, Y.) Language complexity on the synchronous anonymous ring. **89b:68031**

(de Bakker, J. W.) *see* **Conference: Parallel Architectures and Languages—Europe, 89j:68053**

Baldi, Pierre Neural networks, orientations of the hypercube, and algebraic threshold functions. **89h:68115**

Balicki, Jerzy Optimization of the topological structure of a computer network. (Polish. English and Russian summaries) **89e:90080**

Ball, Michael O. *see* **Ramesh, Aparna; et al., 89c:68012**

Banerjee, Prithviraj *see* **West, Douglas B., 89h:68122**

Borovkov, A. A. Asymptotic analysis of communication networks. **89a:60243**

Bracha, Gabriel An $O(\log n)$ expected rounds randomized Byzantine Generals protocol. **89a:68014**

Cai, Xi Yao *see* **Duan, Ping**, (Not in MR)

Chang, M. D. (*with* Engquist, M.; Finkel, Rafael A.; Meyer, R. R.) A parallel algorithm for generalized networks. **89g:90225**

Chau, Siu-Cheung (*with* Liestman, Arthur L.) Constructing minimal broadcast networks. **89h:90081**

— (*with* Liestman, Arthur L.) Constructing fault-tolerant minimal broadcast networks. **89h:90082**

Chen, Jason S. J. (*with* Li, Victor O. K.) Optimizing joins in fragmented database systems on a broadcast local network. (Not in MR)

Cheng, Ying (*with* Hwang, F. K.) Diameters of weighted double loop networks. **89k:90051**

Cidon, Israel (*with* Sidi, Moshe) Conflict multiplicity estimation and batch resolution algorithms. **89b:94022**

Coan, Brian A. A compiler that increases the fault tolerance of asynchronous protocols. (Not in MR)

Colbourn, Charles J. Exact algorithms for network reliability. **89b:68014**

— *see also* **Ramesh, Aparna; et al., 89c:68012**

Cremers, Armin B. (*with* Hibbard, Thomas N.) Subspaces: factorization and communication. **89a:68062**

Du, Ding Zhu (*with* Hwang, F. K.) Generalized de Bruijn digraphs. **89d:05085**

Duan, Ping (*with* Cai, Xi Yao) A real-time interprocessor synchronization algorithm for communication in distributed computer systems. (Not in MR)

Engquist, M. *see* **Chang, M. D.; et al., 89g:90225**

Escudero, M. (*with* Fàbrega, J.; Morillo, P.) Fault-tolerant routings in double-loop networks. **89c:68010**

Fàbrega, J. *see* **Escudero, M.; et al., 89c:68010**

Fagin, Ronald (*with* Halpern, Joseph Y.) I'm OK if you're OK: on the notion of trusting communication. **89m:68034**

Feldman, Paul (*with* Friedman, Joel; Pippenger, Nicholas) Wide-sense nonblocking networks. **89g:94052**

Finkel, David *see* **Tripathi, Satish K.; et al., 89h:68008**

Finkel, Rafael A. *see* **Chang, M. D.; et al., 89g:90225**

Frederickson, Greg N. (*with* Janardan, Ravi) Space-efficient and fault-tolerant message routing in outerplanar networks. **89k:68118**

Friedman, Joel *see* **Feldman, Paul; et al., 89g:94052**

Galil, Zvi (*with* Landau, Gad M.; Yung, Mordechai M.) Distributed algorithms in synchronous broadcasting networks. **89a:68086**

Gelenbe, Erol *see* **Tripathi, Satish K.; et al., 89h:68008**

Gerstel, O. (*with* Mansour, Y.; Zaks, S.) Bit complexity of order statistics on a distributed star network. **89k:68065**

Halpern, Joseph Y. *see* **Fagin, Ronald, 89m:68034**

Hibbard, Thomas N. *see* **Cremers, Armin B., 89a:68062**

Homobono, Nathalie (*with* Peyrat, C.) Connectivity of Imase and Itoh digraphs. **89k:05041**

Houben, Geert-Jan (*with* Paredaens, Jan) A formal model for distributed information systems. **89g:68007**

Huang, Shing Tsaan A fully distributed termination detection scheme. **89j:68047**

Hwang, F. K. *see* **Du, Ding Zhu, 89d:05085** *and* **Cheng, Ying, 89k:90051**

Ikeda, Tatsuhiko *see* **Akimaru, Haruo; et al., 89h:90093**

Itoh, Masaki *see* **Shibasaki, Masashi, 89i:90032**

Jajodia, Sushil (*with* Mutchler, David) A pessimistic consistency control algorithm for replicated files which achieves high availability. (Not in MR)

Janardan, Ravi *see* **Frederickson, Greg N., 89k:68118**

Jin, Zhi Quan (*with* Silberschatz, A.) Proof techniques for port-directed communication and broadcast. **89i:68095**

Kapitonova, Yu. V. (*with* Klyaus, P. S.; Kovalenko, N. S.) A mathematical model of the pipeline organization of competing processes. (Russian) **89a:68024**

Karpov, Yu. G. Coherence of systems of parallel informational processes. **89m:68035**

Kawaguchi, Kimio *see* **Wada, Koichi; et al., 89b:68015**

Kirzhner, V. M. *see* **Vaĭner, V. G.; et al., 89j:90107**

Klyaus, P. S. *see* **Kapitonova, Yu. V.; et al., 89a:68024**

Kovalenko, N. S. *see* **Kapitonova, Yu. V.; et al., 89a:68024**

Krishnamurthy, Balakrishnan *see* **Akers, Sheldon B., 89k:68115**

Landau, Gad M. *see* **Galil, Zvi; et al., 89a:68086**

Ledak, L. P. Priority-admissible schedules in a problem with discrete time periods. (Russian) (*see* **89e:68058**)

Li, Victor O. K. *see* **Chen, Jason S. J.**, (Not in MR)

Liestman, Arthur L. (*with* Peters, Joseph G.) Broadcast networks of bounded degree. **89k:94110**

— *see also* **Chau, Siu-Cheung, 89h:90081** *and* **89h:90082**

Luo, Yupin *see* **Wada, Koichi; et al., 89b:68015**

Mansour, Y. *see* **Attiya, Hagit, 89b:68031** *and* **Gerstel, O.; et al., 89k:68065**

Meyer, R. R. *see* **Chang, M. D.; et al., 89g:90225**

Morillo, P. *see* **Escudero, M.; et al., 89c:68010**

Mutchler, David *see* **Jajodia, Sushil**, (Not in MR)

Ni, Lionel M. *see* **Rego, Vernon**, (Not in MR)

Paredaens, Jan *see* **Houben, Geert-Jan, 89g:68007**

Peleg, David (*with* Upfal, Eli) The generalized packet routing problem. **89k:68071**

Peters, Joseph G. *see* **Liestman, Arthur L., 89k:94110**

Peyrat, C. *see* **Homobono, Nathalie, 89k:05041**

Pinter, Shlomit S. (*with* Wolfstahl, Yaron) On mapping processes to processors in distributed systems. **89a:68109**

Pippenger, Nicholas *see* **Feldman, Paul; et al., 89g:94052**

Ramesh, Aparna (*with* Ball, Michael O.; Colbourn, Charles J.) Bounds for all-terminal reliability in planar networks. **89c:68012**

Rego, Vernon (*with* Ni, Lionel M.) Analytic models of cyclic service systems and their application to token-passing local networks. (Not in MR)

Sauer, Norbert W. (*with* Stone, M. G.) Rational preemptive scheduling. **89h:90131**

Shamir, Eli Distributed network algorithms. (*see* **89m:68002**)

Shen, Sheldon Cooperative distributed dynamic load balancing. **89i:68004**

Shibasaki, Masashi (*with* Itoh, Masaki) Hybrid distance and hybrid capacity on networks. **89i:90032**

Sidi, Moshe *see* **Cidon, Israel, 89b:94022**

Silberschatz, A. *see* **Jin, Zhi Quan, 89i:68095**

Singhal, S. (*with* Thompson, G. L.) A method for maximizing the reliability coefficient of a communications network. **89b:90096**

Spirakis, Paul (*with* Tampakas, Basil) Efficient distributed algorithms by using the Archimedean time assumption. **89c:68052**

Srinivasan, Mandyam M. On extending the scope of bounding techniques for closed queueing networks. **89f:90059**

Staskauskas, Mark G. The formal specification and design of a distributed electronic funds-transfer system. (Not in MR)

Stone, M. G. *see* **Sauer, Norbert W., 89h:90131**

Takagi, Hideaki Queuing analysis of polling models. **89f:68001**

Takahashi, Haruhisa *see* **Akimaru, Haruo; et al., 89h:90093**

Tampakas, Basil *see* **Spirakis, Paul, 89c:68052**

Thompson, G. L. *see* **Singhal, S., 89b:90096**

(Treleaven, P. C.) *see* **Conference: Parallel Architectures and Languages—Europe, 89j:68053**

Tripathi, Satish K. (*with* Finkel, David; Gelenbe, Erol) Load sharing in distributed systems with failures. **89h:68008**

Tsitsiashvili, G. Sh. Stability of queueing networks. **89g:60297**

Upfal, Eli *see* **Peleg, David, 89k:68071**
Vaĭner, V. G. (*with* Zaĭtsev, I. D.; Kirzhner, V. M.) A dynamic problem of the linking of a communication network. (Russian. English summary) **89j:90107**
Wada, Koichi (*with* Kawaguchi, Kimio; Luo, Yupin) Fault-tolerant network routings for $(k+1)$-node connected and $(k+1)$-edge connected graphs. **89b:68015**
West, Douglas B. (*with* Banerjee, Prithviraj) On the construction of communication networks satisfying bounded fan-in of service ports. **89h:68122**
Wolfstahl, Yaron *see* **Pinter, Shlomit S., 89a:68109**
Yung, Mordechai M. *see* **Galil, Zvi; et al., 89a:68086**
Zaĭtsev, I. D. *see* **Vaĭner, V. G.; et al., 89j:90107**
Zaks, S. *see* **Gerstel, O.; et al., 89k:68065**
Zwiers, Jakob ★ Compositionality, concurrency and partial correctness. **89d:68061**

Items listed otherwise than by author

Conference:
Parallel Architectures and Languages—Europe ★ PARLE Conference on Parallel Architectures and Languages—Europe. **89j:68053**
Eindhoven ★ PARLE Conference on Parallel Architectures and Languages—Europe. **89j:68053**

68M15 Reliability and testing

Abu-Amara, Hosame H. *see* **Loui, Michael C., 89c:68011**
Ball, Michael O. *see* **Ramesh, Aparna; et al., 89c:68012**
Bienstock, Daniel Broadcasting with random faults. **89b:68013**
Bracha, Gabriel An $O(\log n)$ expected rounds randomized Byzantine Generals protocol. **89a:68014**
Brecht, Timothy B. (*with* Colbourn, Charles J.) Lower bounds on two-terminal network reliability. **89m:68008**
Colbourn, Charles J. Exact algorithms for network reliability. **89b:68014**
— *see also* **Ramesh, Aparna; et al., 89c:68012** *and* **Brecht, Timothy B., 89m:68008**
Day, Robert P. J. Some reliability measures for 3-trees.
Escudero, M. (*with* Fàbrega, J.; Morillo, P.) Fault-tolerant routings in double-loop networks. **89c:68010**
Fàbrega, J. *see* **Escudero, M.; et al., 89c:68010**
Kawaguchi, Kimio *see* **Wada, Koichi; et al., 89b:68015**
Lee, Yann-Hang (*with* Shin, Kang G.) Optimal design and use of retry in fault-tolerant computer systems. **89a:68015**
Lombardi, F. Analysis of comparison-based diagnosable systems using temporal criteria. (Not in MR)
Loui, Michael C. (*with* Abu-Amara, Hosame H.) Memory requirements for agreement among unreliable asynchronous processes. **89c:68011**
Luo, Yupin *see* **Wada, Koichi; et al., 89b:68015**
Morillo, P. *see* **Escudero, M.; et al., 89c:68010**
Ramesh, Aparna (*with* Ball, Michael O.; Colbourn, Charles J.) Bounds for all-terminal reliability in planar networks. **89c:68012**
Shin, Kang G. *see* **Lee, Yann-Hang, 89a:68015**
Siegrist, K. T. Reliability of systems with Markov transfer of control. (Not in MR)
Sullivan, Gregory F. An $O(t^3+|E|)$ fault identification algorithm for diagnosable systems. (Not in MR)
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Items with secondary classifications in 68M15

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Bienstock, Daniel Asymptotic analysis of some network reliability models. **89e:68002**
Bracha, Gabriel Asynchronous Byzantine agreement protocols. **89a:68012**
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Coan, Brian A. A compiler that increases the fault tolerance of asynchronous protocols. (Not in MR)
Colbourn, Charles J. Network resilience. **89j:68067**
— *see also* **Ramanathan, Aparna, 89g:05071**
Dwork, Cynthia (*with* Lynch, Nancy; Stockmeyer, Larry) Consensus in the presence of partial synchrony. **89c:68008**
Hadzilacos, Vassos A theory of reliability in database systems. **89g:68006**
Kang, Tai *see* **Chen, Ting Huai; et al., 89m:68109**
Kredentser, B. P. (*with* Sidorov, L. A.) A model for systems reliability with a combined slack time and a random utilization mode. **89j:90132**
Kubat, Peter Assessing reliability of modular software. **89m:90076**
Luo, Zhi-Quan *see* **Tsitsiklis, John N., 89c:68039**
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Peleg, David (*with* Simons, Barbara) On fault tolerant routings in general networks. **89a:68175**
Ramanathan, Aparna (*with* Colbourn, Charles J.) Counting almost minimum cutsets with reliability applications. **89g:05071**
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Sidorov, L. A. *see* **Kredentser, B. P., 89j:90132**
Siegrist, K. T. *see* **Amin, A. T.; et al., 89h:68118**
Simons, Barbara *see* **Peleg, David, 89a:68175**
Slater, P. J. *see* **Amin, A. T.; et al., 89h:68118**
Stockmeyer, Larry *see* **Dwork, Cynthia; et al., 89c:68008**
Tsitsiklis, John N. (*with* Luo, Zhi-Quan) Communication complexity of convex optimization. **89c:68039**
Yao, Rong *see* **Chen, Ting Huai; et al., 89m:68109**

68M20 Performance evaluation; queueing theory models [see also 60K25]

Akyildiz, I. F. Product form approximations for queueing networks with multiple servers and blocking. (Not in MR)
Brandwajn, Alexandre Load imbalance in DASD dynamic reconnection. (Not in MR)
Calderbank, A. R. (*with* Coffman, E. G., Jr.; Flatto, Leopold) Optimal directory placement on disk storage devices. (Not in MR)
Coffman, E. G., Jr. *see* **Calderbank, A. R.; et al.,** (Not in MR)
Finkel, David *see* **Tripathi, Satish K.; et al., 89h:68008**
Flatto, Leopold *see* **Calderbank, A. R.; et al.,** (Not in MR)
Gavish, Bezalel (*with* Sumita, Ushio) Analysis of channel and disk subsystems in computer systems. **89c:68013**
Gelenbe, Erol *see* **Tripathi, Satish K.; et al., 89h:68008**
Hooghiemstra, Gerard (*with* Keane, Michael; van de Ree, Simon) Power series for stationary distributions of coupled processor models. **89h:68006**
Jiřina, Marcel Sensitivity paradox in multiprocessor computer systems. (Russian summary) (Not in MR)
Keane, Michael *see* **Hooghiemstra, Gerard; et al., 89h:68006**
Kogan, Ya. A. (*with* Lyakhov, A. I.) Asymptotic analysis of the capacity of multiprocessor systems with common buses. (Not in MR)
Lavenberg, S. S. A perspective on queueing models of computer performance. **89j:68017**
Lehtonen, Tapani Scheduling jobs with exponential processing times on parallel machines. **89j:68018**
Litvinenko, A. E. *see* **Zakusilo, O. K., 89a:68017**
Lyakhov, A. I. *see* **Kogan, Ya. A.,** (Not in MR)
McKenna, James Asymptotic expansions of the sojourn time distribution functions of jobs in closed, product-form queuing networks. **89a:68016**
Morrison, John A. Conditioned response-time distribution for a large closed processor-sharing system in very heavy usage. **89c:68014**
Muntz, Richard R. *see* **de Souza e Silva, Edmundo, 89h:68007**
Ni, Lionel M. *see* **Rego, Vernon,** (Not in MR)
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Rembowski, Bogdan Feedback queueing network—statistical properties of customer streams and approximate solutions. (Polish. English summary) (Not in MR)
Schruben, Lee W. (*with* Yucesan, Enver) Transaction tagging in highly congested queueing simulations. **89i:68003**
Shen, Sheldon Cooperative distributed dynamic load balancing. **89i:68004**
de Souza e Silva, Edmundo (*with* Muntz, Richard R.) Simple relationships among moments of queue lengths in product form queueing networks. **89h:68007**
Stolov, E. L. Ring testing: schemes and fault tolerance. (Not in MR)
Sumita, Ushio *see* **Gavish, Bezalel, 89c:68013**
Tripathi, Satish K. (*with* Finkel, David; Gelenbe, Erol) Load sharing in distributed systems with failures. **89h:68008**
Wijbrands, Rudolf Johannes ★ Queuing network models and performance analysis of computer systems. **89g:68003**
Yucesan, Enver *see* **Schruben, Lee W., 89i:68003**
Zakusilo, O. K. (*with* Litvinenko, A. E.) Optimization of the operation of a computer network by queueing theory methods. (Russian) **89a:68017**

Items with secondary classifications in 68M20

Andropov, V. M. Analytical methods of analyzing the functioning of the distributed multimicroprocessor systems. **89m:60216**
Baccelli, F. (*with* Courcoubetis, C. A.; Reiman, Martin I.) Construction of the stationary regime of queues with locking. **89g:60277**
Bakenrot, V. Yu. (*with* Chefranov, A. G.) On the quality of list dispatchers. (Russian. English summary) (Not in MR)
Becker, Bernd (*with* Simon, Hans-Ulrich) How robust is the n-cube? **89m:68005**
Blanc, J. P. C. On the relaxation times of open queueing networks. **89m:60218**
Chefranov, A. G. *see* **Bakenrot, V. Yu.,** (Not in MR)
Chen, Guan-Ing (*with* Lai, Ten Hwang) Preemptive scheduling of independent jobs on a hypercube. **89h:68038**
Chiu, Lin (*with* Liu, Ming T.) Variable timestamps: performance analysis. **89m:68021**
Conway, Adrian E. (*with* de Souza e Silva, Edmundo; Lavenberg, S. S.) Mean value analysis by chain of product form queueing networks. **89k:90080**
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Csibi, S. More on the stability of a data packet flow embedded randomly into a partially active, scheduled speech packet flow. (Russian summary) **89d:60120**
Daduna, Hans Busy periods for subnetworks in stochastic networks: mean value analysis. **89g:90103**
van Dijk, Nico M. Simple bounds for queueing systems with breakdowns. (Not in MR)
van Doremalen, Jan (*with* Wessels, Jaap) A recursive aggregation-disaggregation method to approximate large-scale closed queueing networks with multiple job types. **89k:60131**
Fakinos, D. Duality relations for certain single server queues. **89m:60226**
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Fuhrmann, Steve W. (*with* Wang, Yung Terng) Analysis of cyclic service systems with limited service: bounds and approximations. **89j:90123**
Hillion, H. P. (*with* Proth, J.-M.) Performance evaluation of job-shop systems using timed event-graphs. **89j:90147**
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Jaffe, Jeffrey M. (*with* Rosberg, Zvi) Maximal throughput in a tandem multi-hop radio network. **89k:68007**
Kawaguchi, Tsuyoshi (*with* Kyan, Seiki) Deterministic scheduling in computer systems: a survey. (Japanese summary) **89j:90150**
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Khomichkov, I. I. Calculation of the characteristics of a queueing system with repeated

customers and with paired connections. **89g:60286**

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Kogan, Ya. A. (*with* Pukhal′skiĭ, A. A.) Tandem queue with finite intermediate waiting room and blocking in heavy traffic. (Russian summary) **89d:60179**

Kruskal, Clyde P. (*with* Snir, Marc; Weiss, Alan) The distribution of waiting times in clocked multistage interconnection networks. **89k:68008**

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Kyan, Seiki *see* **Kawaguchi, Tsuyoshi, 89j:90150**

Ladin, Rivka (*with* Liskov, Barbara; Shrira, Liuba) A technique for constructing highly available services. **89m:68006**

Lai, Ten Hwang *see* **Chen, Guan-Ing, 89h:68038**

Lavenberg, S. S. *see* **Conway, Adrian E.; et al., 89k:90080**

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Liskov, Barbara *see* **Ladin, Rivka; et al., 89m:68006**

Liu, Ming T. *see* **Chiu, Lin, 89m:68021**

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Machihara, Fumiaki On the overflow processes from the $PH_1 + PH_2/M/S/K$ queue with two independent PH-renewal inputs. **89f:60114**

Madhusoodanan, T. P. *see* **Jacob, M. J., 89m:60233**

McKenna, James Extensions and applications of RECAL in the solution of closed product-form queueing networks. **89g:90110**

Melamed, B. *see* **Kiessler, Peter C.; et al., 89d:60177**

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Mikadze, Z. I. *see* **Mikadze, I. S.; et al., 89h:90106**

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Proth, J.-M. *see* **Hillion, H. P., 89j:90147**

Pukhal′skiĭ, A. A. *see* **Kogan, Ya. A., 89d:60179**

Pyatkov, S. N. A two-channel queueing system with losses and transfer of demand from one queue to another. **89e:90106**

Reiman, Martin I. *see* **Baccelli, F.; et al., 89g:60277**

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Rosberg, Zvi *see* **Jaffe, Jeffrey M., 89k:68007**

Saito, Hiroshi^3 The output of loss systems with general service time distributions. **89k:60144**

Semeshko, E. A. *see* **Timofeev, B. B., 89a:60233**

Serfozo, Richard F. Equitable transit charges for multi-administration telecommunications networks. **89b:90082**

Shakaya, O. N. *see* **Mikadze, I. S.; et al., 89h:90106**

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Shepp, L. A. *see* **Morrison, John A.; et al., 89a:60226**

Shipunov, A. V. *see* **Zhozhikashvili, V. A.; et al., 89j:90112**

Shrira, Liuba *see* **Ladin, Rivka; et al., 89m:68006**

Signaevskiĭ, V. A. *see* **Logunov, M. G., 89b:60223**

Simon, Hans-Ulrich *see* **Becker, Bernd, 89m:68005**

Snir, Marc *see* **Kruskal, Clyde P.; et al., 89k:68008**

de Souza e Silva, Edmundo *see* **Conway, Adrian E.; et al., 89k:90080**

Srinivasan, Mandyam M. An approximation for mean waiting times in cyclic server systems with nonexhaustive service. **89j:90129**

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Tverdokhlebov, A. S. *see* **Zhozhikashvili, V. A.; et al., 89j:90112**

Van Wyk, Christopher J. *see* **Morrison, John A.; et al., 89a:60226**

Walrand, Jean *see* **Parekh, Shyam, 89c:60109**

Wang, Yung Terng *see* **Fuhrmann, Steve W., 89j:90123**

Weiss, Alan *see* **Kruskal, Clyde P.; et al., 89k:68008**

Wessels, Jaap *see* **van Doremalen, Jan, 89k:60131**

Willsky, Alan S. *see* **Rohlicek, Jan Robin, 89g:90119**

Woodside, C. M. *see* **Stanford, D. A.; et al., 89f:60116**

Yadin, M. *see* **Kiessler, Peter C.; et al., 89d:60177**

Yao, David D. *see* **Shanthikumar, J. George, 89k:60146**

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68M99 None of the above, but in this section

Alad′ev, V. Z. An algebraical system for polynomial representation of k-valued logical functions. (Not in MR)

Dekhtyarenko, V. A. *see* **Vakunova, L. P.; et al., (89h:00001)**

Donaldson, Thomas (*with* Doty, Karl; Engle, Steven W.; Larson, Robert E.; O'Reilly, John G.; Tandjung, Susanto) Innovative architectures for dense multi-microprocessor computers. (Not in MR)

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Larson, Robert E. *see* **Donaldson, Thomas; et al.**, (Not in MR)

Løvengreen, Hans Henrik *see* **Ravn, Anders P.; et al.**, (Not in MR)

O'Reilly, John G. *see* **Donaldson, Thomas; et al.**, (Not in MR)

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Yamakawa, Takeshi High-speed fuzzy controller hardware system: the mega-FIPS machine. **89e:68003**

Zlotnik, E. M. *see* **Vakunova, L. P.; et al., (89h:00001)**

Items with secondary classifications in 68M99

Derrida, B. *see* **Gardner, E., 89j:82060**

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Lasken, R. A. *see* **Zenios, Stavros A., 89h:90247**

Padberg, Manfred *see* **Hoffman, Karla L., 89b:90124**

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68Nxx Software

68N05 General theory of programming

Aasa, Annika (*with* Holmström, Sören; Nilsson, Christina) An efficiency comparison of some representations of purely functional arrays. **89i:68005**

Astakhov, A. D. The methodological foundations of the organization of computational and information processes. (Russian) **89d:68002**

Barendregt, H. P. (*with* van Eekelen, M. C. J. D.; Plasmeijer, M. J.; Glauert, J. R. W.; Kennaway, J. Richard; Sleep, M. R.) LEAN: an intermediate language based on graph rewriting. (*see* **89j:68053**)

Bartha, Miklós An equational axiomatization of systolic systems. **89i:68006**

Boian, Florian Mircea Reversible execution with loop-exit schemes. (Romanian summary) (Not in MR)

Broy, Manfred Nondeterministic data flow programs: how to avoid the merge anomaly. **89b:68016**

Cherniavsky, John C. (*with* Smith, Carl H.) A recursion theoretic approach to program testing. **89a:68018**

Chung, Moon Jung (*with* Krishnamoorthy, M. S.) Algorithms of placing recovery points. **89f:68010**

Daróczy, Z. (*with* Varga, László) A new approach to defining software complexity measures. **89i:68007**

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Glauert, J. R. W. *see* **Barendregt, H. P.; et al.**, (**89j:68053**)

(Goos, Gerhard) *see* **Uhl, Jürgen, 89a:68021**

Gubar′, I. G. (*with* Gubar′, S. I.) Error dynamics in debugging a program. (Russian) (*see* **89f:00011**)

Gubar′, S. I. *see* **Gubar′, I. G., (89f:00011)**

Harrison, P. G. (*with* Khoshnevisan, H.) Algebraic transformation techniques for functional languages. (Not in MR)

Hehner, Eric C. R. Real-time programming. (Not in MR)

Henglein, Fritz *see* **Paige, Robert, 89a:68020**

Holenderski, Leszek (*with* Szałas, Andrzej) Propositional description of finite cause-effect structures. **89h:68010**

Holmström, Sören *see* **Aasa, Annika; et al., 89i:68005**

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Huang, Xiao Rong *see* **Sun, Yong Qiang; et al., 89i:68009**

Iyengar, S. Sitharama *see* **Minoura, Toshimi**, (Not in MR)

Kennaway, J. Richard *see* **Barendregt, H. P.; et al.**, (**89j:68053**)

Khoshnevisan, H. *see* **Harrison, P. G.**, (Not in MR)

Krishnamoorthy, M. S. *see* **Chung, Moon Jung, 89f:68010**

Lapikova, O. I. *see* **Uvarov, S. I.**, (Not in MR)

Lu, Ru Zhan *see* **Sun, Yong Qiang; et al., 89i:68009**
Michel, Beat A "division" transformation for program and data structures and the structure clash problem. **89h:68011**
Minoura, Toshimi (*with* Iyengar, S. Sitharama) Data and time abstraction techniques for analyzing multilevel concurrent systems. (Not in MR)
Morgan, C. Carroll Auxiliary variables in data refinement. **89k:68010**
— Procedures, parameters, and abstraction: separate concerns. (Not in MR)
Nikitchenko, N. S. *see* **Red'ko, V. N.**, (Not in MR)
Nilsson, Christina *see* **Aasa, Annika; et al., 89i:68005**
Paige, Robert (*with* Henglein, Fritz) Mechanical translation of set theoretic problem specifications into efficient RAM code—a case study. **89a:68020**
Parisi-Presicce, Francesco Product and iteration of module specifications. **89e:68004**
Plasmeijer, M. J. *see* **Barendregt, H. P.; et al., (89j:68053)**
Podlovchenko, R. I. The equivalence problem in commutative *s*-models of programs. (Russian) **89i:68008**
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Royer, James S. ★ A connotational theory of program structure. **89f:68011**
Sabel'fel'd, V. K. How does one account for the properties of operations in the global analysis of programs? (Russian) (Not in MR)
Skordev, Dimit"r G. An extremal problem concerning the detection of cyclic loops. (Not in MR)
Sleep, M. R. *see* **Barendregt, H. P.; et al., (89j:68053)**
Smith, Carl H. *see* **Cherniavsky, John C., 89a:68018**
Sun, Yong Qiang (*with* Lu, Ru Zhan; Huang, Xiao Rong) Termination preserving problem in the transformation of applicative programs. **89i:68009**
Szałas, Andrzej *see* **Holenderski, Leszek, 89h:68010**
Tyugu, Enn ★ Knowledge-based programming. **89c:68015**
Uhl, Jürgen ★ Spezifikation von Programmiersprachen und Übersetzern. (German) [Specification of programming languages and translators] **89a:68021**
Ural, Hasan (*with* Yang, Bo) A structural test selection criterion. **89h:68012**
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Varga, László *see* **Daróczy, Z., 89i:68007**
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— *see also* **Frankl, Phyllis G.**, (Not in MR) *and* **Weiss, Stewart N.**, (Not in MR)
Yang, Bo *see* **Ural, Hasan, 89h:68012**

Items with secondary classifications in 68N05

Banerjee, Utpal *see* **Wolfe, Michael**, (Not in MR)
Bartha, Miklós A finite axiomatization of flowchart schemes. **89a:68145**
Bauer, Friedrich Ludwig (*with* Möller, Bernhard; Partsch, Helmut; Pepper, Peter) Formal program construction by transformations—computer-aided, intuition-guided programming. (Not in MR)
Carboni, A. (*with* Freyd, Peter J.; Scedrov, Andre) A categorical approach to realizability and polymorphic types. **89g:68043**
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Cockett, J. Robin B. Discrete decision theory: manipulations. **89h:68105**
Cohen, Jacques *see* **Hickey, Timothy, 89h:68101**
Duba, Bruce *see* **Felleisen, Matthias; et al., 89j:68097**
Ebergen, J. C. ★ Translating programs into delay-insensitive circuits. **89m:68027**
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Felleisen, Matthias (*with* Friedman, Daniel P.; Kohlbecker, Eugene; Duba, Bruce) A syntactic theory of sequential control. **89j:68097**
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Freyd, Peter J. *see* **Carboni, A.; et al., 89g:68043**
Friedman, Daniel P. *see* **Felleisen, Matthias; et al., 89j:68097**
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Gray, John W. A categorical treatment of polymorphic operations. **89h:68100**
Gupta, Lorene E. *see* **Hehner, Eric C. R.; et al., 89k:68096**
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Hoare, C. A. R. *see* **Roscoe, A. W., 89j:68051**
Kelter, Udo Variants of determinacy in parallel program schemata. **89a:68065**
Kfoury, A. J. (*with* Urzyczyn, P.) Concurrent program schemes. **89i:68038**
Kim, Song Ho On the uniqueness and existence for complete flow tree of parallel flow chart. (Korean. English summary) **89j:68122**
Kohlbecker, Eugene *see* **Felleisen, Matthias; et al., 89j:68097**
Kröger, Fred ★ Temporal logic of programs. **89i:68084**
Løvengreen, Hans Henrik *see* **Ravn, Anders P.; et al.**, (Not in MR)
Löwe, Michael *see* **Hansen, Horst, (89j:68002)**
Malton, Andrew J. *see* **Hehner, Eric C. R.; et al., 89k:68096**
Marandzhyan, G. B. A method for synthesis of programs for numerical functions. (Russian. Armenian summary) **89a:68196**
Martin, A. R. (*with* Tucker, J. V.) The concurrent assignment representation of synchronous systems. (*see* **89j:68053**)
Möller, Bernhard *see* **Bauer, Friedrich Ludwig; et al.**, (Not in MR)
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Nielson, Hanne Riis A Hoare-like proof system for analysing the computation time of programs. **89i:68097**
Nikitchenko, N. S. Semantic construction of programs by means of linking compositions. (Russian) (Not in MR)
Parpucea, Ilie The HAS hierarchy and the extensibility of the programming languages. (Romanian summary) (Not in MR)
Partsch, Helmut *see* **Bauer, Friedrich Ludwig; et al.**, (Not in MR)
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— *see also* **Bauer, Friedrich Ludwig; et al.**, (Not in MR)
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Reichel, Horst Behavioural program specification. **89f:68044**
Rischel, Hans *see* **Ravn, Anders P.; et al.**, (Not in MR)
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Scedrov, Andre *see* **Carboni, A.; et al., 89g:68043**
Shilov, N. V. *see* **Nepomnyashchiĭ, V. A., 89i:68089**
Ştefănescu, Gh. On flowchart theories. II. The nondeterministic case. **89c:68076**
Szabo, M. E. *see* **Farkas, E. J., 89d:68018**
Tătar, Doina On monadic schemes. (Romanian. English summary) **89a:68150**
Trakhtenbrot, B. A. On "logical relations" in program semantics. **89e:68083**
Tucker, J. V. *see* **Martin, A. R., (89j:68053)**
Urzyczyn, P. *see* **Kfoury, A. J., 89i:68038**
Wolfe, Michael (*with* Banerjee, Utpal) Data dependence and its application to parallel processing. (Not in MR)

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Anisimov, P. A. (*with* Marichuk, M. N.) ★ Системы оперативного управления дискретными производствами. (Russian) [Systems for the operative control of discrete productions] **89h:68013**
Fan, Zhi Hua Brief loops and redundant loops. **89b:68017**
Harrison, P. G. Linearisation: an optimisation for nonlinear functional programs. **89h:68014**
Marichuk, M. N. *see* **Anisimov, P. A., 89h:68013**
Schnoebelen, Ph. Refined compilation of pattern-matching for functional languages. **89k:68011**
Smillie, K. W. Array theory and the Nial programming language. (Not in MR)
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Broy, Manfred Equational specification of partial higher order algebras. **89g:68046**
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(Goos, Gerhard) *see* **Uhl, Jürgen, 89a:68021**
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Katz, Shmuel *see* **Francez, Nissim**, (Not in MR)
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Khoshnevisan, H. *see* **Harrison, P. G.**, (Not in MR)
Klop, Jan Willem *see* **Barendregt, H. P.; et al., 89h:03020**
Lampson, B. (*with* Burstall, R.) Pebble, a kernel language for modules and abstract data types. **89b:68045**
Piperno, Adolfo A compositive abstraction algorithm for combinatory logic. **89g:03018**
Prywes, Noah S. *see* **Szymanski, Boleslaw K.**, (Not in MR)
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Szymanski, Boleslaw K. (*with* Prywes, Noah S.) Efficient handling of data structures in definitional languages. (Not in MR)
Tomlinson, Chris *see* **Danforth, Scott**, (Not in MR)
Uhl, Jürgen ★ Spezifikation von Programmiersprachen und Übersetzern. (German) [Specification of programming languages and translators] **89a:68021**

68N20 Compilers and generators

Berghammer, Rudolf (*with* Ehler, Herbert; Zierer, Hans) Towards an algebraic specification of code generation. **89m:68009**
Clocksin, W. F. A technique for translating clausal specifications of numerical methods into efficient programs. **89j:68019**
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Ehler, Herbert *see* **Berghammer, Rudolf; et al., 89m:68009**
Leiss, Ernst L. On the degree of dominator trees. (Not in MR)
Peial, Ya. R. Correctness of descriptions of languages in the translator construction system ТАРТУ [TARTU]. (Russian) **89k:68013**
Spesivtsev, A. V. Error estimation for two list algorithms for solving the resource allocation problem. (Russian) **89a:68022**
Zierer, Hans *see* **Berghammer, Rudolf; et al., 89m:68009**

Items with secondary classifications in 68N20

Giegerich, Robert Composition and evaluation of attribute coupled grammars. **89i:68075**

Goguen, Joseph A. (*with* Kirchner, Claude; Meseguer, José) Concurrent term rewriting as a model of computation. **89a:68134**

Kirchner, Claude *see* **Goguen, Joseph A.; et al., 89a:68134**

Meseguer, José *see* **Goguen, Joseph A.; et al., 89a:68134**

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68N25 Monitors and operating systems

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Cai, Xi Yao *see* **Duan, Ping,** (Not in MR)

Chang, Chên Ch'êng (*with* Chen, C. Y.) A recursive performance formula of the disc modulo allocation method for binary Cartesian product files. **89k:68014**

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Chen, C. Y. *see* **Chang, Chên Ch'êng, 89k:68014**

Chou, Tair-Shian *see* **Datta, Ajoy K.; et al., 89k:68015**

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Kapitonova, Yu. V. (*with* Klyaus, P. S.; Kovalenko, N. S.) A mathematical model of the pipeline organization of competing processes. (Russian) **89a:68024**

Klyaus, P. S. *see* **Kapitonova, Yu. V.; et al., 89a:68024**

Kohler, Walter H. *see* **Choudhary, Alok N.; et al., 89m:68010**

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Langston, Michael A. *see* **Kunde, Manfred; et al., 89c:68016**

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Mühlenbein, H. *see* **Krämer, Ottmar,** (**89j:68053**)

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Röck, H. *see* **Błażewicz, J.; et al., 89a:68023**

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Shevchenko, V. P. *see* **Ivanov, Evgeniĭ Alekseevich^1, 89k:68016**

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Stankovic, John A. *see* **Choudhary, Alok N.; et al., 89m:68010**

Szwarcfiter, J. *see* **Błażewicz, J.; et al., 89a:68023**

Towsley, Don *see* **Choudhary, Alok N.; et al., 89m:68010**

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Hibbard, Thomas N. *see* **Cremers, Armin B., 89a:68062**

Hochbaum, Dorit S. (*with* Shmoys, David B.) A polynomial approximation scheme for scheduling on uniform processors: using the dual approximation approach. **89f:68053**

Jensen, E. Douglas *see* **Sha, Lui; et al., 89a:68041**

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Lehoczky, John P. *see* **Sha, Lui; et al., 89a:68041**

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Lu, Chang Shun *see* **Chi, Zhong Xian; et al.,** (Not in MR)

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Massey, J. David *see* **Lee, Chung-Yee, 89e:90126**

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Rackoff, Charles *see* **Luby, Michael,** (**89b:68005**)

Santos, Cipriano *see* **Naddef, Denis, 89h:90128**

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Shmoys, David B. *see* **Hochbaum, Dorit S., 89f:68053**

Simon, Hans-Ulrich *see* **Böttcher, Axel; et al., 89g:90127**

Sriskandarajah, C. *see* **Goyal, S. K., 89j:90144**

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Stone, M. G. *see* **Sauer, Norbert W., 89h:90131**

Valk, Rüdiger *see* **Hauschildt, Dirk, 89e:68028**

Vanstone, S. A. *see* **Stinson, D. R., 89d:05035**

Zuo, Kai *see* **Chi, Zhong Xian; et al.,** (Not in MR)

68N99 None of the above, but in this section

Blikle, Andrzej Three-valued predicates for software specification and validation. (*see* **89m:68093**)

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Desharnais, Jules *see* **Mili, Ali; et al., 89a:68025**

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Araksyan, V. V. A model of implementing dialog procedures in interactive systems. **89i:68119**

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Semenov, A. L. *see* **Vovk, V. G.; et al., 89m:68092**

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Tandjung, Susanto *see* **Donaldson, Thomas; et al.**, (Not in MR)

Varaiya, P. *see* **Inan, Kemal, 89e:68032**

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68Pxx Theory of data

68P05 Data structures

Bergeron, François (*with* Labelle, Gilbert; Leroux, Pierre) Functional equations for data structures. (*see* **89b:68011**)

Brassard, Gilles (*with* Kannan, Sampath) The generation of random permutations on the fly. **89h:68016**

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Iyengar, S. Sitharama *see* **Rao, Nageswara S. V.; et al., 89a:68029**

Kannan, Sampath *see* **Brassard, Gilles, 89h:68016**

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Klimiashvili, M. A. *see* **Dadashyan, A. S., 89f:68012**

Labelle, Gilbert *see* **Bergeron, François; et al., (89b:68011)**

Larmore, L. L. Height restricted optimal binary trees. **89a:68027**

— *see also* **Hester, J. H.; et al., 89c:68018**

van Leeuwen, Jan *see* **Tel, Gerard; et al., 89e:68008**

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Raghavan, Prabhakar *see* **Karp, Richard M.; et al., 89m:68013**

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Blum, Edward K. (*with* Ehrig, H.; Parisi-Presicce, Francesco) Algebraic specification of modules and their basic interconnections. **89g:68042**

Broy, Manfred Equational specification of partial higher order algebras. **89g:68046**

Burosch, Gustav (*with* Demetrovics, János; Katona, G. O. H.) The poset of closures as a model of changing databases. **89f:68013**

Chazelle, Bernard (*with* Edelsbrunner, Herbert) Linear space data structures for two types of range search. **89a:68204**

Ch'ên, Chien Hui (*with* Yu, M. S.; Liu, Lung T'ien) Two algorithms for constructing a binary tree from its traversals. **89i:68048**

Cockett, J. Robin B. Discrete decision theory: manipulations. **89h:68105**

Demetrovics, János *see* **Burosch, Gustav; et al., 89f:68013**

Edelsbrunner, Herbert *see* **Chazelle, Bernard, 89a:68204**

Ehrig, H. *see* **Blum, Edward K.; et al., 89g:68042**

Er, M. C. Ranking and unranking of nonregular trees. **89c:68081**

Fernández Camacho, M. I. Average size of simplified trees. (Spanish. English summary) **89d:68028**

Flajolet, Philippe Mathematical methods in the analysis of algorithms and data structures. (*see* **89m:68002**)

Gong, Wei Random visit array (RVA) storage structures of trees. (Chinese. English summary) **89k:68143**

Holmström, Sören *see* **Aasa, Annika; et al., 89i:68005**

Huang, Gui Jin Representation of planar regions using normalized linear quadtrees. (Chinese. English summary) **89k:68152**

Katona, G. O. H. *see* **Burosch, Gustav; et al., 89f:68013**

Kocay, W. L. Abstract data types and graph isomorphism. **89k:68018**

van Leeuwen, Jan *see* **Bezem, Marc, 89a:68096**

Liu, Lung T'ien *see* **Ch'ên, Chien Hui; et al., 89i:68048**

Mäkinen, Erkki On the rotation distance of binary trees. **89a:05055**

Mannila, Heikki (*with* Wood, Derick) A note on the largest empty rectangle problem. **89e:68053**

Meyer, Renate *see* **Biskup, Joachim, 89g:68005**

Michel, Beat A "division" transformation for program and data structures and the structure clash problem. **89h:68011**

Morrison, John A. (*with* Shepp, L. A.; Van Wyk, Christopher J.) A queueing analysis of hashing with lazy deletion. **89a:60226**

Nilsson, Christina *see* **Aasa, Annika; et al., 89i:68005**

Noltemeier, Hartmut Voronoi trees. **89k:68147**

Overmars, Mark H. Efficient data structures for range searching on a grid. **89h:68149**

Paige, Robert (*with* Tarjan, Robert E.) Three partition refinement algorithms. **89h:68069**

Parisi-Presicce, Francesco *see* **Blum, Edward K.; et al., 89g:68042**

Prodinger, Helmut Some recent results on the register function of a binary tree. **89g:68058**

Reif, John H. A topological approach to dynamic graph connectivity. **89a:68178**

Roelants van Baronaigien, D. (*with* Ruskey, Frank) A Hamilton path in the rotation lattice of binary trees. **89d:05063**

Ruskey, Frank *see* **Roelants van Baronaigien, D., 89d:05063**

Shepp, L. A. *see* **Morrison, John A.; et al., 89a:60226**

Smillie, K. W. Array theory and the Nial programming language. (Not in MR)

Tarjan, Robert E. *see* **Paige, Robert, 89h:68069**

Van Wyk, Christopher J. *see* **Morrison, John A.; et al., 89a:60226**

Wood, Derick *see* **Mannila, Heikki, 89e:68053**

Yu, M. S. *see* **Ch'ên, Chien Hui; et al., 89i:68048**

68P10 Searching and sorting

Ahlswede, Rudolf (*with* Wegener, Ingo) ★ Search problems. **89c:68019**

Aigner, M. ★ Combinatorial search. **89k:68021**

Al-Anzy, J. M. *see* **Suraweera, F., 89i:68016**

Alon, Noga (*with* Azar, Y.) The average complexity of deterministic and randomized parallel comparison-sorting algorithms. **89k:68022**

Arden, Bruce W. *see* **Nakatani, Toshio; et al., 89k:68027**

Aurenhammer, F. On-line sorting of twisted sequences in linear time. **89b:68020**

Azar, Y. *see* **Alon, Noga, 89k:68022**

Barkley, Ronald E. (*with* Lee, T. Paul) Point representation and hashing of an interval. **89k:68023**

Beck, István (*with* Krogdahl, Stein) A select and insert sorting algorithm. **89m:68014**

Chakrabarti, P. P. (*with* Ghose, S.; Pandey, A.; De Sarkar, S. C.) Increasing search efficiency using multiple heuristics. (Not in MR)

Chlebus, Bogdan S. A parallel bucket sort. **89a:68031**

Cole, Richard Parallel merge sort. **89m:68015**

Dehne, Frank (*with* Stojmenović, I.) An $O(\sqrt{n})$ time algorithm for the ECDF searching problem for arbitrary dimensions on a mesh-of-processors. **89e:68010**

De Sarkar, S. C. *see* **Chakrabarti, P. P.; et al.**, (Not in MR)

Djidjev, H. N. Simple parallel sorting algorithms. **89h:68017**

Ďurian, B. *see* **Dvořák, S., 89i:68014**

Dvořák, S. (*with* Ďurian, B.) Merging by decomposition revisited. **89i:68014**

Er, M. C. A smooth reshuffling algorithm for solving the Bulterman's problem. **89j:68024**

Faigle, Ulrich (*with* Turán, György) Sorting and recognition problems for ordered sets. **89e:68011**

Fischer, Thomas R. M. On the average complexity of searching for partial match queries in multidimensional search trees. **89h:68018**

Frieze, A. M. On the random construction of heaps. **89c:68020**

Gafni, Eli *see* **Marberg, John M., 89c:68021** *and* **89i:68015**
Ghose, S. *see* **Chakrabarti, P. P.; et al.**, (Not in MR)
Gonnet, Gaston H. (*with* Larson, Per-Åke) External hashing with limited internal storage. **89a:68032**
Gusfield, Dan *see* **Martel, Charles U., 89k:68026**
Hagerup, Torben Towards optimal parallel bucket sorting. **89a:68033**
Hofri, Micha (*with* Konheim, Alan G.) Padded lists revisited. **89m:68016**
Hu, Te Chiang (*with* Wachs, Michelle L.) Binary search on a tape. **89a:68034**
Huang, Shing Tsaan *see* **Nakatani, Toshio; et al., 89k:68027**
Kemp, Rainer Additive weights of nonregularly distributed trees. **89j:68025**
Kessler, Hans W. *see* **Pflug, Georg Ch., 89e:68012**
Knight, William J. Search in an ordered array having variable probe cost. **89m:68017**
Knott, Gary D. Linear open addressing and Peterson's theorem rehashed. **89k:68024**
Ko, Ker-I Searching for two objects by underweight feedback. **89b:68021**
Konheim, Alan G. *see* **Hofri, Micha, 89m:68016**
Krogdahl, Stein *see* **Beck, István, 89m:68014**
Larson, Per-Åke *see* **Gonnet, Gaston H., 89a:68032**
Lee, T. Paul *see* **Barkley, Ronald E., 89k:68023**
Levcopoulos, Christos (*with* Overmars, Mark H.) A balanced search tree with $O(1)$ worst-case update time. **89k:68025**
Mahmoud, Hosam M. (*with* Pittel, B.) On the joint distribution of the insertion path length and the number of comparisons in search trees. **89d:68005**
Mäkinen, Erkki On linear search heuristics. (Not in MR)
Marberg, John M. (*with* Gafni, Eli) Distributed sorting algorithms for multichannel broadcast networks. **89c:68021**
— (*with* Gafni, Eli) Sorting in constant number of row and column phases on a mesh. **89i:68015**
Martel, Charles U. (*with* Gusfield, Dan) A fast parallel quicksort algorithm. **89k:68026**
McDiarmid, Colin Average-case lower bounds for searching. **89j:68026**
Nakatani, Toshio (*with* Huang, Shing Tsaan; Arden, Bruce W.; Tripathi, Satish K.) k-way bitonic sort. **89k:68027**
Overmars, Mark H. *see* **Levcopoulos, Christos, 89k:68025**
Pandey, A. *see* **Chakrabarti, P. P.; et al.**, (Not in MR)
Pelc, Andrzej Prefix search with a lie. **89j:68027**
Pflug, Georg Ch. (*with* Kessler, Hans W.) Linear probing with a nonuniform address distribution. **89e:68012**
Pippenger, Nicholas Sorting and selecting in rounds. **89h:68019**
Pittel, B. (*with* Yu, Jenn-Hwa) On search times for early-insertion coalesced hashing. **89h:68020**
— *see also* **Mahmoud, Hosam M., 89d:68005**
Richards, Dana S. (*with* Vaidya, Pravin) On the distribution of comparisons in sorting algorithms. **89m:68018**
Salowe, Jeffrey S. (*with* Steiger, William) Simplified stable merging tasks. **89b:68022**
Schäffer, Alejandro A. A tighter upper bound on the worst case behavior of Conway's parallel sorting algorithm. **89k:68028**
Sedgewick, Robert *see* **Weiss, Mark Allen, 89m:68019**
Siromoney, Rani Computability and unsolvability. (*see* **89h:00004**)
Steiger, William *see* **Salowe, Jeffrey S., 89b:68022**
Stojmenović, I. *see* **Dehne, Frank, 89e:68010**
Suraweera, F. (*with* Al-Anzy, J. M.) Analysis of a modified address calculation sorting algorithm. **89i:68016**
Szpankowski, Wojciech Some results on V-ary asymmetric tries. **89d:68006**
Tripathi, Satish K. *see* **Nakatani, Toshio; et al., 89k:68027**
Tsegelik, G. G. Time-optimal search for a model for indexed sequential files under uniform distribution of the probabilities of record search. (Not in MR)
Turán, György *see* **Faigle, Ulrich, 89e:68011**
Tusnády, Gábor Hashing. (Hungarian) **89e:68013**
Vaidya, Pravin *see* **Richards, Dana S., 89m:68018**
Veni Madhavan, C. E. Bubble sort. (*see* **89h:00004**)
Verkamo, A. Inkeri External quicksort. (Not in MR)
Wachs, Michelle L. *see* **Hu, Te Chiang, 89a:68034**
Wegener, Ingo *see* **Ahlswede, Rudolf, 89c:68019**
Weiss, Mark Allen (*with* Sedgewick, Robert) Bad cases for shaker-sort. **89m:68019**
Wogulis, James Self-adjusting and split sequence hash tables. (Not in MR)
(Wotschke, Jean E.) *see* **Ahlswede, Rudolf, 89c:68019**
Xu, Lei Some views on the algorithm SA. (Chinese. English summary) (Not in MR)
Yu, Jenn-Hwa *see* **Pittel, B., 89h:68020**
Zhang, Jian Zhong A fast grouping and sorting method. (Chinese. English summary) (Not in MR)

Items with secondary classifications in 68P10

Alon, Noga (*with* Azar, Y.) Sorting, approximate sorting, and searching in rounds. **89m:68030**
Azar, Y. *see* **Alon, Noga, 89m:68030**
Bollobás, B. Sorting in rounds. **89k:05006**
Choffrut, Christian Unavoidable subsets of words. (Spanish. French summary) **89h:68081**
Chung, F. R. K. (*with* Graham, R. L.; Saks, M. E.) Dynamic search in graphs. **89e:05183**
— (*with* Hajela, D.; Seymour, Paul D.) Self-organizing sequential search and Hilbert's inequalities. **89i:68012**
Clarkson, Kenneth L. A randomized algorithm for closest-point queries. **89h:68143**
Culberson, J. (*with* Munro, J. I.) Explaining the behaviour of binary search trees under prolonged updates: a model and simulations. (Not in MR)
Cunto, Walter (*with* Poblete, Patricio V.) Transforming unbalanced multiway trees into a practical external data structure. **89k:68019**
(Darlington, J.) *see* **Jacobs, Dean, 89i:68051**
Dumitrescu, D. Numerical methods in fuzzy hierarchical pattern recognition. II. Divisive hierarchical clustering. (Not in MR)
Feather, Martin *see* **Jacobs, Dean, 89i:68051**
Flajolet, Philippe Mathematical methods in the analysis of algorithms and data structures. (*see* **89m:68002**)
Goyal, Pankaj (*with* Narayanan, T. S.) Dictionary machine with improved performance. (Not in MR)
Graham, R. L. *see* **Chung, F. R. K.; et al., 89e:05183**
Hajela, D. *see* **Chung, F. R. K.; et al., 89i:68012**
Hester, J. H. (*with* Hirschberg, D. S.; Larmore, L. L.) Construction of optimal binary split trees in the presence of bounded access probabilities. **89c:68018**
Hirschberg, D. S. *see* **Hester, J. H.; et al., 89c:68018**
Hofri, Micha ★ Probabilistic analysis of algorithms. **89g:68025**
Huang, Shou-Hsuan Stephen A VLSI partition algorithm. (Not in MR)
Jacobs, Dean (*with* Feather, Martin) Corrections to: "A synthesis of several sorting algorithms" [Acta Inform. **11** (1978/79), no. 1, 1–30; MR 80e:68024] by J. Darlington. **89i:68051**
Karp, Richard M. (*with* Upfal, Eli; Wigderson, Avi) The complexity of parallel search. **89i:68037**
— (*with* Motwani, Rajeev; Raghavan, Prabhakar) Deferred data structuring. **89m:68013**
Kirkpatrick, David Establishing order in planar subdivisions. **89g:68068**
Klein, Rolf (*with* Wood, Derick) The node visit cost of brother trees. **89j:68023**
Kramer, Thomas Automated analysis of operators on state tables: a technique for intelligent search. **89j:68142**
Larcher, G. (*with* Tichy, Robert F.) A note on Gray code and odd-even merge. **89g:68028**
Larmore, L. L. *see* **Hester, J. H.; et al., 89c:68018**
Moore, James C. (*with* Richmond, William B.; Whinston, Andrew B.) A decision theoretic approach to file search. **89i:90044**
Motwani, Rajeev *see* **Karp, Richard M.; et al., 89m:68013**
Munro, J. I. *see* **Culberson, J.**, (Not in MR)
Muzalevskiĭ, I. M. Application of abstract models for the representation of data. I. Structure and search. (Russian) **89d:68009**
Narayanan, T. S. *see* **Goyal, Pankaj**, (Not in MR)
Nicol, David M. Expected performance of m-solution backtracking. **89k:68070**
Nielson, Hanne Riis A Hoare-like proof system for analysing the computation time of programs. **89i:68097**
Paige, Robert (*with* Tarjan, Robert E.) Three partition refinement algorithms. **89h:68069**
Parberry, Ian ★ Parallel complexity theory. **89b:68002**
Poblete, Patricio V. *see* **Cunto, Walter, 89k:68019**
Raghavan, Prabhakar *see* **Karp, Richard M.; et al., 89m:68013**
Richmond, William B. *see* **Moore, James C.; et al., 89i:90044**
Rivest, Ronald L. Game tree searching by min/max approximation. **89a:68197**
Roelants van Baronaigien, D. (*with* Ruskey, Frank) A Hamilton path in the rotation lattice of binary trees. **89d:05063**
Ruskey, Frank *see* **Roelants van Baronaigien, D., 89d:05063**
Saks, M. E. *see* **Chung, F. R. K.; et al., 89e:05183**
Schaback, R. On the expected sublinearity of the Boyer-Moore algorithm. **89h:68070**
Scherson, Isaac D. (*with* Sen, Sandeep) Parallel sorting in two-dimensional VLSI models of computation. **89m:68070**
Sen, Sandeep *see* **Scherson, Isaac D., 89m:68070**
Seymour, Paul D. *see* **Chung, F. R. K.; et al., 89i:68012**
Tarjan, Robert E. *see* **Paige, Robert, 89h:68069**
Tichy, Robert F. *see* **Larcher, G., 89g:68028**
Upfal, Eli *see* **Karp, Richard M.; et al., 89i:68037**
Wah, Benjamin W. *see* **Yu, Chee-Fen, 89h:68129**
Waner, Stefan (*with* Wu, Yihren) The hierarchical structure of graph searches. **89a:68198**
Whinston, Andrew B. *see* **Moore, James C.; et al., 89i:90044**
Wiedermann, Juraj ★ Searching algorithms. **89d:68004**
Wigderson, Avi *see* **Karp, Richard M.; et al., 89i:68037**
Wood, Derick *see* **Klein, Rolf, 89j:68023**
Wu, Yihren *see* **Waner, Stefan, 89a:68198**
Yu, Chee-Fen (*with* Wah, Benjamin W.) Learning dominance relations in combinatorial search problems. **89h:68129**

68P15 Database theory

Abramov, V. I. Algebra of the fuzzy relations of a diagnostic database. (Russian) (*see* **89h:00001**)
(Aĭzerman, M. A.) *see* **Logical dependencies and systems decomposition analysis, 89j:68033**
(Ausiello, Giorgio) *see* **Conference: Database Theory, 89i:68024**
Baik, Ki H. *see* **Miller, Leslie L., 89d:68008**
Benczúr, András Information measurement in relational databases. (*see* **89a:68004**)
Berman, Joel (*with* Blok, W. J.) Positive Boolean dependencies. **89h:68021**
Bidoit, N. The Verso algebra or how to answer queries with fewer joins. **89a:68035**
Biskup, Joachim (*with* Meyer, Renate) Design of relational database schemes by deleting attributes in the canonical decomposition. **89g:68005**
— (*with* Räsch, Uwe) The equivalence problem for relational database schemes. (*see* **89a:68004**)
Blok, W. J. *see* **Berman, Joel, 89h:68021**
Buckles, Billy P. (*with* Petry, Frederick E.; Sachar, Harvinder S.) A domain calculus for fuzzy relational databases. **89k:68029**
Burosch, Gustav (*with* Demetrovics, János; Katona, G. O. H.) The poset of closures as a model of changing databases. **89f:68013**
Cellary, Wojciech (*with* Gelenbe, Erol; Morzy, Tadeusz) ★ Concurrency control in distributed database systems. **89k:68030**
Chaban, A. V. Intensional data model. **89m:68020**
Chang, Chên Ch'êng (*with* Chang, Tz'ŭ Hsien) Optimal Cartesian product files for orthogonal range queries. (Chinese summary) **89a:68036**
— (*with* Chang, Tz'ŭ Hsien) Correction to: "Optimal Cartesian product files for orthogonal range queries" [J. Chinese Inst. Engrs. **10** (1987), no. 6, 727–731; MR 89a:68036]. **89i:68017**
Chang, Tz'ŭ Hsien *see* **Chang, Chên Ch'êng, 89a:68036** *and* **89i:68017**
Chen, Chang Song Database normalization and an improved synthesis algorithm. (Chinese. English summary) **89k:68031**

Chen, Jason S. J. (*with* Li, Victor O. K.) Optimizing joins in fragmented database systems on a broadcast local network. (Not in MR)

Chiu, Lin (*with* Liu, Ming T.) Variable timestamps: performance analysis. **89m:68021**

Damian, Sergiu *see* **Moldovan, Grigor**, (Not in MR) *and* (Not in MR)

D'Atri, Alessandro (*with* Di Felice, P.; Lakshmanan, V. S.; Moscarini, Marina) On global context dependencies and their properties (extended abstract). (*see* **89a:68004**)

— (*with* Moscarini, Marina) On hypergraph acyclicity and graph chordality. **89m:68022**

De Bra, P. Functional dependency implications, inducing horizontal decompositions. **89e:68014**

Demetrovics, János (*with* Hồ Thuân; Nguyễn Xuân Huy) Balanced relational schemes and keys in a relational scheme. (Russian) **89e:68017**

— (*with* Hồ Thuân) Some additional properties of keys for relation schemes. **89b:68023**

— (*with* Vu Duc Thi) Some results about functional dependencies. (Russian summary) **89e:68015**

— (*with* Vu Duc Thi) Relations and minimal keys. (Russian summary) **89e:68016**

— *see also* **Burosch, Gustav; et al., 89f:68013**

Di Felice, P. *see* **D'Atri, Alessandro; et al.**, (**89a:68004**)

Dolk, Daniel R. Relational data management and modeling systems: a tutorial. (*see* **89g:90136**)

Duží, Marie (*with* Materna, Pavel; Staníček, Zdenko) Information capability of a database schema. (Not in MR)

Eich, Margaret H. (*with* Wells, David L.) Database concurrency control using data flow graphs. (Not in MR)

Elmagarmid, Ahmed K. (*with* Helal, Abdelsalam A.) Towards a unified model for performance evaluation of concurrency control. (Not in MR)

Frolov, O. R. (*with* Petrov, Sergeĭ Vsevolodovich) Databases with a universal relation. (Russian) **89e:68018**

Gadia, S. K. *see* **Miller, Leslie L.; et al., 89j:68029**

Garcia-Molina, Hector (*with* Kogan, Boris) Achieving high availability in distributed databases. **89e:68019**

Gelenbe, Erol *see* **Cellary, Wojciech; et al., 89k:68030**

Ginsburg, Seymour (*with* Tang, Chang Jie) Projection of object histories. **89a:68037**

— (*with* Tang, Chang Jie) Canonical forms for interval functions. **89a:68038**

Gong, Zhen He On temporal aspect of database specifications. (Not in MR)

Guessarian, Irène A note on fixpoint techniques in data base recursive logic programs. (French summary) **89i:68018**

Hadzilacos, Vassos A theory of reliability in database systems. **89g:68006**

He, Ji Chao *see* **Zhang, Yan**[1], (Not in MR)

Helal, Abdelsalam A. *see* **Elmagarmid, Ahmed K.**, (Not in MR)

Helman, Paul (*with* Veroff, Robert) Designing deductive databases. **89c:68022**

Hirata, Tomio *see* **Yamasaki, Hiroshi; et al., 89d:68011**

Hồ Thuân Contribution to the theory of relational databases. **89i:68019**

— *see also* **Demetrovics, János, 89b:68023; Le Van Bao, 89c:68023** *and* **Demetrovics, János; et al., 89e:68017**

Houben, Geert-Jan (*with* Paredaens, Jan) A formal model for distributed information systems. **89g:68007**

Hsu, Meichun (*with* Madnick, Stuart E.) Shifting timestamps for concurrency control in an information hierarchy. **89k:68032**

Ibaraki, Toshihide *see* **Yamasaki, Hiroshi; et al., 89d:68011**

Imai, Masaharu *see* **Yamasaki, Hiroshi; et al., 89d:68011**

Jajodia, Sushil (*with* Mutchler, David) A pessimistic consistency control algorithm for replicated files which achieves high availability. (Not in MR)

Jensen, E. Douglas *see* **Sha, Lui; et al., 89a:68041**

Kabe, D. G. On the statistical security of a statistical database. **89e:68020**

Kalyuzhnaya, S. A. Boolean systems of functional dependencies. (Russian) **89a:68039**

Karanikolov, A. F. (*with* Kotelya, V. V.) Universal relations in a relational model. (Russian) (Not in MR)

Katona, G. O. H. *see* **Burosch, Gustav; et al., 89f:68013**

Kikuno, Tohru *see* **Miyao, Jun'ichi; et al.**, (Not in MR)

Klug, Anthony On conjunctive queries containing inequalities. **89e:68021**

Kogan, Boris *see* **Garcia-Molina, Hector, 89e:68019**

Kondrat'ev, A. I. Relational models for information-recognizing problems, algorithms and systems. (Russian) **89m:68023**

Kotelya, V. V. Reduced functional dependences and normal forms of schemes of relations. (Russian) **89i:68020**

— *see also* **Karanikolov, A. F.**, (Not in MR)

Kothari, S. *see* **Miller, Leslie L.; et al., 89j:68029**

Krutovskikh, I. V. (*with* Proshkin, S. D.; Serov, S. S.) A method for constructing the logical structure of the database of an information system. (Russian. English summary) **89a:68040**

Lakshmanan, V. S. Lattices: what can they do for relational databases? **89k:68033**

— (*with* Veni Madhavan, C. E.) An algebraic theory of functional and multivalued dependencies in relational databases. **89d:68007**

— *see also* **D'Atri, Alessandro; et al.**, (**89a:68004**)

Lehoczky, John P. *see* **Sha, Lui; et al., 89a:68041**

Le Van Bao (*with* Hồ Thuân) Translations of relational schemas. **89c:68023**

Li, Fang (*with* Saxton, Lawrence V.) Minimizing response time for two-way distributed joins in partitioned databases. **89m:68024**

Li, Guang *see* **Yang, Chao Chih; et al., 89j:68031**

Li, Ke *see* **Zhu, Hong**[1]**, 89j:68032**

Li, Victor O. K. *see* **Chen, Jason S. J.**, (Not in MR)

Liu, Ken Chih *see* **Miller, Leslie L.; et al., 89j:68029**

Liu, Ming T. *see* **Chiu, Lin, 89m:68021**

Madnick, Stuart E. *see* **Hsu, Meichun, 89k:68032**

Maftsir, E. S. (*with* Plotkin, B. I.) The automorphism group of a database. **89j:68028**

Malvestuto, F. M. Existence of extensions and product extensions for discrete probability distributions. **89e:68022**

Marek, W. (*with* Rauszer, C.) Query optimization in the databases distributed by means of product equivalence relations. **89i:68021**

Materna, Pavel *see* **Duží, Marie; et al.**, (Not in MR)

Meersman, Robert (*with* Verlinden, P.) The binary semantic net formalism for the specification of database design and constraints, and its implementation. (Russian summary) (Not in MR)

Meyer, Renate *see* **Biskup, Joachim, 89g:68005**

Michalewicz, Zbigniew (*with* Yeo, Anthony) Multiranges and multitrackers in statistical databases. **89b:68024**

Miller, Leslie L. (*with* Baik, Ki H.) A method for testing equivalence of heterogeneous relational databases. **89d:68008**

— (*with* Gadia, S. K.; Kothari, S.; Liu, Ken Chih) Completeness issues for join dependencies derived from the universal relation join dependency. **89j:68029**

Miyao, Jun'ichi (*with* Tominaga, Kazuyuki; Kikuno, Tohru; Yoshida, Noriyoshi) Optimization of multiple queries in relational database systems. (Not in MR)

Moldovan, Grigor (*with* Damian, Sergiu) On some generalizations of an optimization problem for distributed data bases. (Romanian summary) (Not in MR)

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Morzy, Tadeusz *see* **Cellary, Wojciech; et al., 89k:68030**

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Mutchler, David *see* **Jajodia, Sushil**, (Not in MR)

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Paredaens, Jan *see* **Houben, Geert-Jan, 89g:68007**

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Petry, Frederick E. *see* **Buckles, Billy P.; et al., 89k:68029**

Pham The Que *M*-minimal covers and Sperner systems with application to the key finding problem for relation scheme. (Hungarian summary) **89h:68023**

Plotkin, B. I. *see* **Maftsir, E. S., 89j:68028**

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Proshkin, S. D. *see* **Krutovskikh, I. V.; et al., 89a:68040**

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Rauszer, C. *see* **Marek, W., 89i:68021**

Reischer, Corina *see* **Simovici, Dan A., 89h:68025**

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Srimani, Pradip K. *see* **Pamula, Raj Sekhar, 89h:68022**

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Tang, Chang Jie *see* **Ginsburg, Seymour, 89a:68037** *and* **89a:68038**

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— *see also* **Seleznev, O. V., 89h:68024**

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Tominaga, Kazuyuki *see* **Miyao, Jun'ichi; et al.**, (Not in MR)

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Van Gelder, Allen *see* **Ullman, Jeffrey D., 89d:68010**

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Verlinden, P. *see* **Meersman, Robert**, (Not in MR)

Veroff, Robert *see* **Helman, Paul, 89c:68022**

Vianu, Victor A dynamic framework for object projection views. (Not in MR)

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Vineyard, David *see* **Pramanik, Sakti, 89g:68008**

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Wells, David L. *see* **Eich, Margaret H.**, (Not in MR)

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Yeo, Anthony *see* **Michalewicz, Zbigniew, 89b:68024**
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Special Issue:
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Logical dependencies and systems decomposition analysis ★ Logical dependencies and systems decomposition analysis. **89j:68033**

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Bancilhon, François *see* **Korth, Henry F.; et al., 89h:68156**
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Finn, V. K. *see* **Gusakova, S. M., 89m:68012**
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Giancarlo, Raffaele *see* **Galil, Zvi, 89c:68042**
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Iyengar, S. Sitharama *see* **Minoura, Toshimi**, (Not in MR)
Kim, Won *see* **Korth, Henry F.; et al., 89h:68156**
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Lloyd, J. W. (*with* Sonenberg, E. A.; Topor, Rodney W.) Integrity constraint checking in stratified databases. **89a:68190**
Maio, Dario *see* **Ciaccia, Paolo; et al., 89j:68034**
Marek, W. A natural semantics for modal logic over databases. **89i:68085**
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Ng, Peter Lei *see* **Bhargava, Bharat**, (Not in MR)
(Paredaens, Jan) *see* **MFDBS 87, 89a:68004**
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Sapozhnikov, Vl. V. *see* **Sapozhnikov, V. V., 89k:94105**
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Stankovic, John A. *see* **Choudhary, Alok N.; et al., 89m:68010**
(Thalheim, B.) *see* **MFDBS 87, 89a:68004**
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Tiberio, Paolo *see* **Ciaccia, Paolo; et al., 89j:68034**
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MFDBS 87 ★ MFDBS 87. **89a:68004**
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Mathematical Fundamentals of Database Systems ★ MFDBS 87. **89a:68004**
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Workshop:
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68P20 Information retrieval

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Blumer, J. *see* **Blumer, A.; et al., 89h:68028**
Bodea, Constanţa *see* **Diaconescu, G.; et al.**, (Not in MR)
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Chang, Chên Ch'êng *see* **Chan, Chin K'o, 89h:68029**
Chung, W. L. *see* **Chan, Mee Yee**, (Not in MR)
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Françon, J. *see* **Arquès, D.; et al., 89h:68027**
Guichet, M. T. *see* **Arquès, D.; et al., 89h:68027**
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Maio, Dario *see* **Ciaccia, Paolo; et al., 89j:68034**
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Tiberio, Paolo *see* **Ciaccia, Paolo; et al., 89j:68034**
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Items with secondary classifications in 68P20

van Emde Boas, Peter *see* **Slot, Cees, 89i:68033**
Fischer, Thomas R. M. On the average complexity of searching for partial match queries in multidimensional search trees. **89h:68018**
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Rauszer, C. *see* **Marek, W., 89i:68021**
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Yeo, Anthony *see* **Michalewicz, Zbigniew, 89b:68024**

68P25 Data encryption

Abisha, P. Jeyanthi *see* **Subramanian, K. G.; et al., 89k:68036**

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Moffat, A. *see* **Bell, T. C.,** (Not in MR)

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Sherman, Alan T. *see* **Kaliski, Burton S., Jr.; et al., 89f:94017**

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68P99 None of the above, but in this section

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(Sleator, D. D.) *see* **Ryabko, B. Ya.; et al., 89a:68045**

(Tarjan, Robert E.) *see* **Ryabko, B. Ya.; et al., 89a:68045**

Togonidze, V. A. Sampling compression of information in data systems. (Russian) **89m:68026**

(Wei, V. K.) *see* **Ryabko, B. Ya.; et al., 89a:68045**

Zheng, Zhi Jie The duodirun merging algorithm. **89h:68033**

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Alipov, N. V. Design of optimal polychotomous questionnaires for conjecturing the number with wrong answers. (Russian) **89d:94035**

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Miola, Alfonso *see* **Mascari, Gianfranco, 89k:68098**

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68Qxx Theory of computing [see also 03D05, 18B20]

Items with secondary classifications in 68Qxx

Harel, David ★ Algorithmics. **89b:68001**

(Hinman, Peter G.) *see* **Bibliography: Mathematical logic, 89e:03001d**

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68Q05 Models of computation (abstract processors, Turing machines, etc.)

Arbib, Michael A. ★ Brains, machines, and mathematics. **89h:68034**

Awerbuch, B. (*with* Israeli, A.; Shiloach, Y.) Finding Euler circuits in logarithmic parallel time. **89f:68015**

Beame, Paul Limits on the power of concurrent-write parallel machines. **89i:68027**

(Berman, Leonard) *see* **Chang, Jik H.; et al., 89a:68048**

Berry, Gerard (*with* Sethi, Ravi) From regular expressions to deterministic automata. **89a:68046**

Börger, Egon Logic as machine: complexity relations between programs and formulae. (*see* **89m:68002**)

Cazacu, Maria Algorithms and recursive functions. (Romanian summary) (Not in MR)

Chan, Tat Hung On two-way weak counter machines. **89a:68047**

— Pushdown automata with reversal-bounded counters. **89k:68037**

Chang, Jik H. (*with* Ibarra, Oscar H.; Ravikumar, Bala) Erratum: "Some observations concerning alternating Turing machines using small space" [Inform. Process. Lett. 25 (1987), no. 1, 1–9; MR 88e:68026] by the authors and L. Berman. **89a:68048**

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Cook, Stephen A. Short propositional formulas represent nondeterministic computations. **89i:68028**

Culik, Karel, II (*with* Linna, Matti) The equivalence problem for n-tape finite automata with simple cycles. **89a:68049**

Dauchet, M. (*with* Timmerman, E.) Continuous monoids and yields of infinite trees. (French summary) **89a:68050**

Dijkstra, Edsger W. Extreme solutions of equations. **89g:68009**

Dömösi, P. Turing machines with time function. **89g:68010**

Duboc, Christine Mixed product and asynchronous automata. **89a:68051**

Ebergen, J. C. ★ Translating programs into delay-insensitive circuits. **89m:68027**

van Emde Boas, Peter Space measures for storage modification machines. **89m:68028**

— *see also* **Slot, Cees, 89i:68033**

Fauconnier, H. Sémantique asynchrone et comportements infinis en CSP. (English summary) [Asynchronous semantics and infinite behavior in CSP] **89c:68024**

Fitting, Melvin ★ Computability theory, semantics, and logic programming. **89e:68027**

Garzon, Max Cyclic automata. **89c:68025**

Geidmanis, Dainis On the capabilities of alternating and parallel nondeterministic finite multitape automata. (Russian) **89f:68016**

Hauschildt, Dirk (*with* Valk, Rüdiger) Safe states in banker-like resource allocation problems. **89e:68028**

Hirokawa, Sachio *see* **Sekimoto, Shoji, 89h:68035**

Hromkovič, Juraj (*with* Janiga, Ladislav; Koubek, Václav) On automata with variable number of heads. (*see* **89g:68002**)

Huckenbeck, Ulrich ★ Geometrische Maschinenmodelle. (German) [Geometric models of machines] **89j:68038**

Huet, Gérard Deduction and computation. **89i:68029**

Ibarra, Oscar H. (*with* Ravikumar, Bala) Relating the degree of ambiguity of finite automata to the succinctness of their representation. **89a:68052**

— (*with* Palis, Michael A.) On efficient simulations of systolic arrays by random-access machines. **89c:68026**

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— *see also* **Chang, Jik H.; et al., 89a:68048** *and* **89j:68037**

Inoue, Katsushi *see* **Itō, Akira; et al., 89d:68013**

Israeli, A. *see* **Awerbuch, B.; et al., 89f:68015**

Itō, Akira (*with* Inoue, Katsushi; Takanami, Itsuo) A note on three-way two-dimensional alternating Turing machines. **89d:68013**

Janiga, Ladislav *see* **Hromkovič, Juraj; et al.**, (**89g:68002**)

Karbovskiĭ, I. N. Cycles in communities of threshold automata. **89j:68039**

Kasangian, Stefano (*with* Labella, Anna; Pettorossi, Alberto) Enriched categories for local and interaction calculi. **89f:68017**

Katajainen, Jyrki (*with* van Leeuwen, Jan; Penttonen, Martti) Fast simulation of Turing machines by random access machines. **89e:68029**

Kawahara, Yasuo Applications of relational calculus to computer mathematics. **89c:68027**

Ko, Ker-I *see* **Marron, Assaf, 89a:68054**

Koubek, Václav *see* **Hromkovič, Juraj; et al.**, (**89g:68002**)

Labella, Anna *see* **Kasangian, Stefano; et al., 89f:68017**

Lazdinya, G. K. A lower bound on reversal complexity for Turing machines. (Russian) **89i:68031**

van Leeuwen, Jan *see* **Katajainen, Jyrki; et al., 89e:68029**

Lehmann, Jean-Philippe A universal machine without change of state. **89b:68025**

Li, Ming^1 (*with* Yesha, Yaacov) Separation and lower bounds for ROM and nondeterministic models of parallel computation. **89e:68030**

Linna, Matti *see* **Culik, Karel, II, 89a:68049**

Liśkiewicz, Maciej (*with* Loryś, Krzysztof) Alternating real-time computations. **89j:68040**

Loryś, Krzysztof *see* **Liśkiewicz, Maciej, 89j:68040**

Luk-Zil′berman, E. V. Classification of finite automata according to stability and distortions of incoming signals. (Russian) **89a:68053**

Marcus, Monica (*with* Păun, Gh.) Valence GSM-mappings. **89f:68018**

Marron, Assaf (*with* Ko, Ker-I) Identification of pattern languages from examples and queries. **89a:68054**

Nielson, Flemming *see* **Nielson, Hanne Riis, 89d:68014**

Nielson, Hanne Riis (*with* Nielson, Flemming) Automatic binding time analysis for a typed λ-calculus. **89d:68014**

Noguchi, Shoichi *see* **Yamamoto, Hiroaki, 89h:68036**

Oyamaguchi, Michio The equivalence problem for real-time DPDAs. **89f:68019**

Palis, Michael A. *see* **Ibarra, Oscar H., 89c:68026**

Păun, Gh. *see* **Marcus, Monica, 89f:68018**

Péladeau, Pierre (*with* Thérien, Denis) Sur les langages reconnus par des groupes nilpotents. (English summary) [On the languages recognized by nilpotent groups] **89a:68055**

Penttonen, Martti *see* **Katajainen, Jyrki; et al., 89e:68029**

Pettorossi, Alberto *see* **Kasangian, Stefano; et al., 89f:68017**

Ravikumar, Bala *see* **Chang, Jik H.; et al., 89a:68048; Ibarra, Oscar H., 89a:68052** *and* **89i:68030**

Rothstein, Jerome Bus versus cellular automata, and ultimate limitations of parallel processing. **89i:68032**

Seiferas, Joel A variant of Ben-Or's lower bound for algebraic decision trees. **89d:68015**

Sekimoto, Shoji (*with* Hirokawa, Sachio) One-step recurrent terms in λ-β-calculus. **89h:68035**

Semenov, M. A. (*with* Terkel′, D. A.) Games of probabilistic and deterministic algorithms of bounded complexity. (Russian) **89j:68041**

Sethi, Ravi *see* **Berry, Gerard, 89a:68046**

Shiloach, Y. *see* **Awerbuch, B.; et al., 89f:68015**

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Slot, Cees (*with* van Emde Boas, Peter) The problem of space invariance for sequential machines. **89i:68033**

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Takanami, Itsuo *see* **Itō, Akira; et al., 89d:68013**

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Terkel′, D. A. *see* **Semenov, M. A., 89j:68041**

Thérien, Denis *see* **Péladeau, Pierre, 89a:68055**

Timmerman, E. *see* **Dauchet, M., 89a:68050**

Valk, Rüdiger *see* **Hauschildt, Dirk, 89e:68028**

Vardi, Moshe Y. *see* **Sistla, A. Prasad; et al., 89a:68056**

Vergis, Anastasios *see* **Chang, Jik H.; et al., 89j:68037**

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Yesha, Yaacov *see* **Li, Ming^1, 89e:68030**

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(Börger, Egon) *see* **Trends in theoretical computer science, 89m:68002**

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Curien, P.-L. *see* **Cousineau, G.; et al., 89a:68147**

(Dijkstra, Edsger W.) *see* **Hoare, C. A. R., 89b:68003**

Djidjev, H. N. Simple parallel sorting algorithms. **89h:68017**

Èĭdel′man, S. D. *see* **Korolyuk, V. S.; et al., 89k:68108**

Engelfriet, Joost (*with* Vogler, Heiko) High level tree transducers and iterated pushdown tree transducers. **89j:68089**

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Gécseg, F. *see* **Ésik, Z., 89m:68096**

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Håstad, Johan One-way permutations in NC^0. **89h:68051**

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Holenderski, Leszek *see* **Szałas, Andrzej, 89i:03040**

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Jenner, Birgit (*with* Kirsig, Bernd) Characterizing the polynomial hierarchy by alternating auxiliary pushdown automata. **89i:68043**
Jiang, Tao *see* **Ibarra, Oscar H., 89a:68166**
Kelly, J. S. Social choice and computational complexity. **89d:90022**
Kelter, Udo Variants of determinacy in parallel program schemata. **89a:68065**
Kiehn, Astrid On the interrelation between synchronized and nonsynchronized behaviour of Petri nets. (German and Russian summaries) **89i:68083**
Kirchherr, Walter W. Transposition of an $l \times l$ matrix requires $\Omega(\log l)$ reversals on conservative Turing machines. **89h:68063**
Kirchner, Claude *see* **Goguen, Joseph A.; et al., 89a:68134**
Kirsig, Bernd *see* **Jenner, Birgit, 89i:68043**
Ko, Ker-I *see* **Book, Ronald V., 89i:68039**
Korolyuk, V. S. (*with* Pletnëv, A. I.; Èĭdel′man, S. D.) Automata. Random walks. Games. **89k:68108**
Krause, Matthias Exponential lower bounds on the complexity of local and real-time branching programs. (German and Russian summaries) **89i:68044**
Leiserson, Charles E. (*with* Maggs, Bruce M.) Communication-efficient parallel algorithms for distributed random-access machines. **89a:68090**
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Maggs, Bruce M. *see* **Leiserson, Charles E., 89a:68090**
Mauny, M. *see* **Cousineau, G.; et al., 89a:68147**
Meseguer, José *see* **Goguen, Joseph A.; et al., 89a:68134**
Mostowski, Andrzej Wlodzimierz Hierarchies of weak monadic formulas for two successors arithmetic. (German and Russian summaries) **89c:03076**
Muller, David E. (*with* Schupp, Paul E.) Alternating automata on infinite trees. **89g:68054**
Oberschelp, Arnold (*with* Schmidt-Göttsch, Karsten; Todt, Günter) Castor quadruplorum. **89k:03045**
Pan, V. *see* **Galil, Zvi, 89i:05215**
Papadimitriou, Christos H. (*with* Ullman, Jeffrey D.) A communication-time tradeoff. **89a:68078**
Parigot, Michel Automates, réseaux, formules. [Automata, networks, formulas] **89m:03029**
Pletnëv, A. I. *see* **Korolyuk, V. S.; et al., 89k:68108**
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Ragde, Prabhakar *see* **Fich, Faith E.; et al., 89i:68036**
Randé, Bernard *see* **Allouche, Jean-Paul; et al., 89c:68079**
Regan, Kenneth W. The topology of provability in complexity theory. **89k:68050**
Robert, Yves Systolic algorithms for path-finding problems. (*see* **89c:68078**)
Ryan, W. J. *see* **Pogorzelski, H. A., 89k:03001**
Schmidt-Göttsch, Karsten *see* **Oberschelp, Arnold; et al., 89k:03045**
Schupp, Paul E. *see* **Muller, David E., 89g:68054**
Sipser, Michael *see* **Fortnow, Lance, 89i:68040**
Skordev, Dimit″r G. On the analog of the partial recursive functions for the case of nondeterministic computations. (Bulgarian summary) **89e:03077**
Staiger, Ludwig Sequential mappings of ω-languages. (French summary) **89a:68127**
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Szałas, Andrzej (*with* Holenderski, Leszek) Incompleteness of first-order temporal logic with until. **89i:03040**
Szepietowski, Andrzej Remarks on languages acceptable in $\log\log n$ space. **89d:68033**
Takanami, Itsuo *see* **Inoue, Katsushi, 89j:68048**
Thimonier, Loÿs *see* **Allouche, Jean-Paul; et al., 89c:68079**
Todt, Günter *see* **Oberschelp, Arnold; et al., 89k:03045**
Ullman, Jeffrey D. *see* **Papadimitriou, Christos H., 89a:68078**
Vogler, Heiko *see* **Engelfriet, Joost, 89j:68089**
Wigderson, Avi *see* **Fich, Faith E.; et al., 89i:68036**
Wilson, Christopher B. Relativized NC. **89d:68023**

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Lectures:
Computation theory ★ Trends in theoretical computer science. **89m:68002**
Trends in theoretical computer science ★ Trends in theoretical computer science. **89m:68002**
Udine ★ Trends in theoretical computer science. **89m:68002**

68Q10 Modes of computation (concurrent, parallel, etc.)

Aalbersberg, IJsbrand Jan (*with* Rozenberg, Grzegorz) Theory of traces. **89j:68042**
Abrahamson, Karl (*with* Adler, Andrew; Gelbart, Rachel; Higham, Lisa; Kirkpatrick, David) The bit complexity of randomized leader election on a ring. **89k:68038**
Adler, Andrew *see* **Abrahamson, Karl; et al., 89k:68038**
Alad′ev, V. Z. Survey on some theoretical results and applicability aspects in parallel computation modelling. (Russian summary) (Not in MR)
Alon, Noga (*with* Azar, Y.) Sorting, approximate sorting, and searching in rounds. **89m:68030**
Anisimov, A. V. (*with* Oleshchuk, V. A.) Algorithms for information processing in high-speed computer systems. (Russian) (*see* **89j:68011**)
Apt, Krzysztof R. (*with* Bougé, Luc; Clermont, Ph.) Two normal form theorems for CSP programs. **89k:68039**
Arora, Radha Krishnan (*with* Gupta, M. N.) More comments on: "Distributed termination detection algorithm for distributed computations" [Arora, Gupta and S. P. Rana, Inform. Process. Lett. 22 (1986), no. 6, 311–314; R. B. Tan, G. Tel and J. van Leeuwen, ibid. 23 (1986), no. 3, 163; MR 87j:68034ab]. **89j:68043**
Astesiano, Egidio (*with* Giovini, Alessandro; Reggio, Gianna) Generalized bisimulation in relational specifications. (*see* **89b:68011**)
Azar, Y. *see* **Alon, Noga, 89m:68030**
Baeten, J. C. M. (*with* Bergstra, J. A.; Klop, Jan Willem) On the consistency of Koomen's fair abstraction rule. **89m:68031**
— (*with* Bergstra, J. A.) Global renaming operators in concrete process algebra. **89m:68032**
de Bakker, J. W. (*with* Meyer, J.-J. Ch.; Olderog, E.-R.; Zucker, J. I.) Transition systems, metric spaces and ready sets in the semantics of uniform concurrency. **89i:68034**
— *see also* **Conference: Parallel Architectures and Languages—Europe, 89j:68053**
Banerjee, Utpal *see* **Wolfe, Michael,** (Not in MR)
Benson, David B. The shuffle bialgebra. **89h:68037**
Berard, Béatrice Literal shuffle. **89a:68059**
Bergstra, J. A. (*with* Klop, Jan Willem) A universal axiom system for process specification. **89j:68044**
— (*with* Klop, Jan Willem) A complete inference system for regular processes with silent moves. **89k:68040**
— *see also* **Baeten, J. C. M.; et al., 89m:68031** *and* **89m:68032**
Best, Eike (*with* Merceron, Agathe) *D*-continuity and Petri's axioms of concurrency for nonsequential process models. **89g:68011**
— (*with* Fernández, César) ★ Nonsequential processes. **89i:68035**
Boreisha, Yu. E. Means of interaction of asynchronous parallel processes. (Russian) (*see* **89j:68011**)
Bougé, Luc Repeated snapshots in distributed systems with synchronous communications and their implementation in CSP. **89k:68041**
— On the existence of symmetric algorithms to find leaders in networks of communicating sequential processes. **89a:68060**
— *see also* **Apt, Krzysztof R.; et al., 89k:68039**
Broy, Manfred (*with* Streicher, Thomas) Views of distributed systems. **89a:68061**
Burton, F. Warren (*with* McKeown, G. P.; Rayward-Smith, V. J.) On process assignment in parallel computing. (Not in MR)
Chen, Guan-Ing (*with* Lai, Ten Hwang) Preemptive scheduling of independent jobs on a hypercube. **89h:68038**
Cherkasova, L. A. (*with* Kotov, V. E.) On properties of nets for modelling of systems and generalized processes. **89c:68028**
Clarke, E. M. (*with* Grümberg, O.) Research on automatic verification of finite-state concurrent systems. **89k:68042**
Clermont, Ph. *see* **Apt, Krzysztof R.; et al., 89k:68039**
Cole, Richard (*with* Vishkin, Uzi) The accelerated centroid decomposition technique for optimal parallel tree evaluation in logarithmic time. **89g:68012**
Cook, Stephen A. (*with* Luby, Michael) A simple parallel algorithm for finding a satisfying truth assignment to a 2-CNF formula. **89h:68039**
Costa, Gerardo (*with* Stirling, Colin) Weak and strong fairness in CCS. **89g:68013**
Cremers, Armin B. (*with* Hibbard, Thomas N.) Subspaces: factorization and communication. **89a:68062**
Darondeau, Ph. Une critique de la notion de test de processus fondée sur la non séparabilité de certaines classes de langages. (English summary) [A critique of the notion of process testing based on the nonseparability of certain classes of languages] **89a:68063**
— Bisimulation and effectiveness. **89m:68033**
Das, Sajal K. (*with* Deo, Narsingh) Divide-and-conquer-based optimal parallel algorithms for some graph problems on EREW PRAM model. **89d:68017**
Degano, Pierpaolo (*with* Montanari, Ugo) A model for distributed systems based on graph rewriting. **89a:68064**
Deo, Narsingh *see* **Das, Sajal K., 89d:68017**
Fagin, Ronald (*with* Halpern, Joseph Y.) I'm OK if you're OK: on the notion of trusting communication. **89m:68034**
Farkas, E. J. (*with* Szabo, M. E.) On the programs-as-formulas interpretation of parallel programs in Peano arithmetic. **89d:68018**
Feng, Hwa-chung *see* **Fujimoto, Richard M.,** (Not in MR)
Fernández, César (*with* Merceron, Agathe) Bases and lattices in nonsequential processes. **89h:68040**
— *see also* **Best, Eike, 89i:68035**
Fich, Faith E. (*with* Meyer auf der Heide, Friedhelm; Wigderson, Avi) Lower bounds for parallel random-access machines with unbounded shared memory. **89e:68031**
— (*with* Ragde, Prabhakar; Wigderson, Avi) Relations between concurrent-write models of parallel computation. **89i:68036**
Fujimoto, Richard M. (*with* Feng, Hwa-chung) A shared memory algorithm and proof for the generalized alternative construct in CSP. (Not in MR)
Gazit, Hillel (*with* Miller, Gary L.) An improved parallel algorithm that computes the BFS numbering of a directed graph. **89j:68045**
Gelbart, Rachel *see* **Abrahamson, Karl; et al., 89k:68038**
Geus, Lothar (*with* Henning, Walter; Vajteršic, Marián; Volkert, Jens) Matrix inversion algorithms for a pyramidal multiprocessor system. (Russian summary) (Not in MR)
Giovini, Alessandro *see* **Astesiano, Egidio; et al., (89b:68011)**
Gorlach, G. N. The possibility of parallel realization of a class of computational schemes. (Russian) (*see* **89j:68009**)
Gorrieri, Roberto (*with* Marchetti, Sergio; Montanari, Ugo) A^{2}CCS: a simple extension of CCS for handling atomic actions. **89h:68041**
Grümberg, O. *see* **Clarke, E. M., 89k:68042**
Guessarian, Irène (*with* Niar-Dinedane, Wafaa) An automaton characterization of fairness in SCCS. **89c:68029**
Gupta, M. N. *see* **Arora, Radha Krishnan, 89j:68043**
Hagerup, Torben On saving space in parallel computation. **89k:68043**
Hallnäs, Lars An intensional characterization of the largest bisimulation. **89b:68026**
Halpern, Joseph Y. *see* **Fagin, Ronald, 89m:68034**
Helmbold, David (*with* Mayr, Ernst) Fast scheduling algorithms on parallel computers. **89h:68042**
Hennessy, Matthew An algebraic theory of fair asynchronous communicating processes. **89b:68027**
Henning, Walter *see* **Geus, Lothar; et al.,** (Not in MR)
Hesselink, Wim H. Deadlock and fairness in morphisms of transition systems. **89j:68046**
Hibbard, Thomas N. *see* **Cremers, Armin B., 89a:68062**
Higham, Lisa *see* **Abrahamson, Karl; et al., 89k:68038**
Ho, Ching-Tien *see* **Johnsson, S. Lennart, 89h:68045**
Hoare, C. A. R. Algebraic specifications and proofs for communicating sequential processes. **89c:68030**
— *see also* **Roscoe, A. W., 89j:68051**
Huang, Shing Tsaan A fully distributed termination detection scheme. **89j:68047**
Inan, Kemal (*with* Varaiya, P.) Finitely recursive processes. **89e:68032**

Inoue, Katsushi (*with* Takanami, Itsuo) Some considerations about NPRIORITY(1) without ROM. **89j:68048**
Ja'Ja', Joseph (*with* Owens, Robert Michael) Optimal algorithms for mesh-connected parallel processors with serial memories. **89h:68043**
Janicki, Ryszard A formal semantics for concurrent systems with a priority relation. **89h:68044**
Johnsson, S. Lennart (*with* Ho, Ching-Tien) Algorithms for matrix transposition on Boolean *N*-cube configured ensemble architectures. **89h:68045**
Kak, Subhash Multilayered array computing. (Not in MR)
Karp, Richard M. (*with* Upfal, Eli; Wigderson, Avi) The complexity of parallel search. **89i:68037**
Karpov, Yu. G. Coherence of systems of parallel informational processes. **89m:68035**
Kelter, Udo Variants of determinacy in parallel program schemata. **89a:68065**
Kfoury, A. J. (*with* Urzyczyn, P.) Concurrent program schemes. **89i:68038**
Kirkpatrick, David *see* **Abrahamson, Karl; et al., 89k:68038**
Klop, Jan Willem *see* **Bergstra, J. A., 89j:68044; 89k:68040** *and* **Baeten, J. C. M.; et al., 89m:68031**
Kotov, V. E. *see* **Cherkasova, L. A., 89c:68028**
Kranakis, Evangelos Fixed point equations with parameters in the projective model. **89h:68046**
Krat, S. P. An estimate for the efficiency of dynamic parallelization of sequential programs on a class of queueing models. (Russian) (*see* **89j:68009**)
Kulyabko, P. P. The hierarchy principle in the concept of control spaces. (Russian) (*see* **89j:68011**)
Labella, Anna (*with* Pettorossi, Alberto) Universal models in categories for process synchronization. **89a:68066**
Lai, Ten Hwang *see* **Chen, Guan-Ing, 89h:68038**
(van Leeuwen, Jan) *see* **Arora, Radha Krishnan, 89j:68043**
Luby, Michael *see* **Cook, Stephen A., 89h:68039**
Luccio, Fabrizio (*with* Pietracaprina, A.; Pucci, G.) A probabilistic simulation of PRAMs on a bounded degree network. **89h:68047**
Marchetti, Sergio *see* **Gorrieri, Roberto; et al., 89h:68041**
Mattern, Friedemann Global quiescence detection based on credit distribution and recovery. **89k:68044**
Mayr, Ernst *see* **Helmbold, David, 89h:68042**
McKeown, G. P. *see* **Burton, F. Warren; et al.**, (Not in MR)
Merceron, Agathe *see* **Best, Eike, 89g:68011** *and* **Fernández, César, 89h:68040**
Meyer, J.-J. Ch. *see* **de Bakker, J. W.; et al., 89i:68034**
Meyer auf der Heide, Friedhelm *see* **Fich, Faith E.; et al., 89e:68031**
Miller, Gary L. *see* **Gazit, Hillel, 89j:68045**
Montanari, Ugo *see* **Degano, Pierpaolo, 89a:68064** *and* **Gorrieri, Roberto; et al., 89h:68041**
Niar-Dinedane, Wafaa *see* **Guessarian, Irène, 89c:68029**
Okol'nishnikova, E. A. The effect of negations on the complexity of the realization of a system of monotone Boolean functions. (Russian) **89d:68019**
Olderog, E.-R. *see* **de Bakker, J. W.; et al., 89i:68034**
Oleshchuk, V. A. *see* **Anisimov, A. V.**, (**89j:68011**)
Ordman, Edward T. Minimal threshold separators and memory requirements for synchronization. **89k:68045**
Owens, Robert Michael *see* **Ja'Ja', Joseph, 89h:68043**
Parberry, Ian On the time required to sum *n* semigroup elements on a parallel machine with simultaneous writes. **89a:68067**
Pettorossi, Alberto *see* **Labella, Anna, 89a:68066**
Pietracaprina, A. *see* **Luccio, Fabrizio; et al., 89h:68047**
Pucci, G. *see* **Luccio, Fabrizio; et al., 89h:68047**
Ragde, Prabhakar (*with* Steiger, William; Szemerédi, Endre; Wigderson, Avi) The parallel complexity of element distinctness is $\Omega\sqrt{\log n}$. **89j:68049**
— *see also* **Fich, Faith E.; et al., 89i:68036**
(Rana, S. P.) *see* **Arora, Radha Krishnan, 89j:68043**
Rayward-Smith, V. J. *see* **Burton, F. Warren; et al.**, (Not in MR)
Reggio, Gianna *see* **Astesiano, Egidio; et al.**, (**89b:68011**)
Reif, John H. (*with* Smolka, Scott A.) The complexity of reachability in distributed communicating processes. **89j:68050**
Roscoe, A. W. (*with* Hoare, C. A. R.) The laws of Occam programming. **89j:68051**
Rosier, Louis E. (*with* Yen, Hsu-Chun) On the complexity of deciding fair termination of probabilistic concurrent finite-state programs. **89m:68036**
Rozenberg, Grzegorz *see* **Aalbersberg, IJsbrand Jan, 89j:68042**
Savage, John E. (*with* Vitter, Jeffrey Scott) Parallelism in space-time trade-offs. **89g:68014**
Schevon, Catherine A. (*with* Vitter, Jeffrey Scott) A parallel algorithm for recognizing unordered depth-first search. **89j:68052**
Schönhage, Arnold A nonlinear lower bound for random-access machines under logarithmic cost. **89h:68048**
Shilov, N. V. On the dynamic logic of processes. (Russian) **89e:68033**
Smolka, Scott A. *see* **Reif, John H., 89j:68050**
Sobel, A. E. K. (*with* Soundararajan, Neelam) A proof system for distributed processes. (Not in MR)
Soundararajan, Neelam *see* **Sobel, A. E. K.**, (Not in MR)
Srinivasa Rao, K. Parallelism in computer science. (*see* **89h:00004**)
Steiger, William *see* **Ragde, Prabhakar; et al., 89j:68049**
Stirling, Colin Modal logics for communicating systems. **89c:68031**
— *see also* **Costa, Gerardo, 89g:68013**
Streicher, Thomas *see* **Broy, Manfred, 89a:68061**
Szabo, M. E. *see* **Farkas, E. J., 89d:68018**
Szemerédi, Endre *see* **Ragde, Prabhakar; et al., 89j:68049**
Takanami, Itsuo *see* **Inoue, Katsushi, 89j:68048**
(Tan, Richard B.) *see* **Arora, Radha Krishnan, 89j:68043**
Tekko, J. Application of the language of the Quirk model for a comparison between the Quirk model and Petri nets. (Russian. English and Estonian summaries) **89g:68015**
(Tel, Gerard) *see* **Arora, Radha Krishnan, 89j:68043**
(Treleaven, P. C.) *see* **Conference: Parallel Architectures and Languages—Europe, 89j:68053**
Turchina, V. A. The application of algorithms of parallel ordering to the parallelization of some computer processes. (Russian) (*see* **89f:00011**)
Upfal, Eli *see* **Karp, Richard M.; et al., 89i:68037**
Urzyczyn, P. *see* **Kfoury, A. J., 89i:68038**
Vajteršic, Marián *see* **Geus, Lothar; et al.**, (Not in MR)
Van Gelder, Allen PRAM processor allocation: a hidden bottleneck in sublogarithmic algorithms. **89m:68037**
Varaiya, P. *see* **Inan, Kemal, 89e:68032**
Vartanov, S. R. On the relation between strongly globally preserved and stationary systems of parallel substitutions. (Russian. Armenian summary) **89g:68016**
Vishkin, Uzi *see* **Cole, Richard, 89g:68012**
Vitter, Jeffrey Scott *see* **Savage, John E., 89g:68014** *and* **Schevon, Catherine A., 89j:68052**
Volkert, Jens *see* **Geus, Lothar; et al.**, (Not in MR)
Wigderson, Avi *see* **Fich, Faith E.; et al., 89e:68031; 89i:68036; Karp, Richard M.; et al., 89i:68037** *and* **Ragde, Prabhakar; et al., 89j:68049**
Wolfe, Michael (*with* Banerjee, Utpal) Data dependence and its application to parallel processing. (Not in MR)
Yen, Hsu-Chun *see* **Rosier, Louis E., 89m:68036**
Zubenko, V. V. A scheme of a generalized primitive recursion as a means of programming. (Russian) (*see* **89k:68003**)
Zucker, J. I. *see* **de Bakker, J. W.; et al., 89i:68034**

Items listed otherwise than by author

Conference:
  Parallel Architectures and Languages—Europe ★ PARLE Conference on Parallel Architectures and Languages—Europe. **89j:68053**
Eindhoven ★ PARLE Conference on Parallel Architectures and Languages—Europe. **89j:68053**

Items with secondary classifications in 68Q10

Abramowski, S. (*with* Müller, Heinrich Augustinus) Collision avoidance for nonrigid objects. (German summary) **89h:68140**
Aceto, Luca (*with* De Nicola, Rocco; Fantechi, Alessandro) Testing equivalences for event structures. **89a:68142**
Aggarwal, Alok (*with* Chazelle, Bernard; Guibas, Leonidas J.; Ó'Dúnlaing, Colm; Yap, Chee-Keng) Parallel computational geometry. **89h:68141**
Akl, Selim G. *see* **Meijer, Henk, 89a:68105**
America, Pierre (*with* de Bakker, J. W.) Designing equivalent semantic models for process creation. **89a:68143**
Anderson, James H. (*with* Gouda, Mohamed G.) Atomic semantics of nonatomic programs. (Not in MR)
Anderson, Richard John (*with* Mayr, Ernst) Parallelism and greedy algorithms. **89j:68057**
Apt, Krzysztof R. Proving correctness of concurrent programs: a quick introduction. (*see* **89m:68002**)
Aykanat, Cevdet (*with* Özgüner, Füsun; Ercal, Fikret; Sadayappan, Ponnuswamy) Iterative algorithms for solution of large sparse systems of linear equations on hypercubes. **89k:65050**
de Bakker, J. W. (*with* Meyer, J.-J. Ch.) Order and metric in the stream semantics of elemental concurrency. **89a:68144**
— *see also* **America, Pierre, 89a:68143**
Beame, Paul Limits on the power of concurrent-write parallel machines. **89i:68027**
Bodlaender, H. L. ★ Distributed computing: structure and complexity. **89j:68015**
Bose, Pradip A novel technique for efficient parallel implementation of a classical logic/fault simulation problem. (Not in MR)
Browne, M. C. (*with* Clarke, E. M.; Grümberg, O.) Characterizing finite Kripke structures in propositional temporal logic. **89k:03030**
Broy, Manfred Views of queues. **89m:68094**
de Bruin, Arie (*with* Rinnooy Kan, A. H. G.; Trienekens, H. W. J. M.) A simulation tool for the performance evaluation of parallel branch and bound algorithms. **89k:90134**
(Bul'onkova, A. A.) *see* **Hoare, C. A. R., 89k:68001**
Burns, James E. (*with* Lynch, Nancy) The Byzantine firing squad problem. **89i:68002**
Capocelli, R. M. (*with* Giancarlo, Raffaele) Efficient VLSI networks for converting an integer from binary system to residue number system and vice versa. **89i:68066**
Casey, Richard M. (*with* Jameson, Donald A.) Parallel and vector processing in landscape dynamics. **89h:68155**
Chang, H. Y. (*with* Utku, S.; Salama, M.; Rapp, D.) A parallel Householder tridiagonalization stratagem using scattered row decomposition. **89c:65143**
Chazelle, Bernard *see* **Aggarwal, Alok; et al., 89h:68141**
Clarke, E. M. *see* **Browne, M. C.; et al., 89k:03030**
Cole, Richard Parallel merge sort. **89m:68015**
Dang Van Hung (*with* Knuth, Elöd) A noninterleaving semantics for communicating sequential processes: a fixed-point approach. **89h:68099**
Degano, Pierpaolo (*with* Marchetti, Sergio) Partial ordering models for concurrency can be defined operationally. **89m:68085**
— (*with* Montanari, Ugo) Concurrent histories: a basis for observing distributed systems. **89a:68148**
Dehne, Frank (*with* Stojmenović, I.) An $O(\sqrt{n})$ time algorithm for the ECDF searching problem for arbitrary dimensions on a mesh-of-processors. **89e:68010**
De Leone, R. *see* **Mangasarian, O. L., 89i:90089**
De Nicola, Rocco *see* **Aceto, Luca; et al., 89a:68142**
(Dijkstra, Edsger W.) *see* **Hoare, C. A. R., 89b:68003**
Djidjev, H. N. Simple parallel sorting algorithms. **89h:68017**
Dwork, Cynthia (*with* Lynch, Nancy; Stockmeyer, Larry) Consensus in the presence of partial synchrony. **89c:68008**
Ebergen, J. C. ★ Translating programs into delay-insensitive circuits. **89m:68027**
Ercal, Fikret *see* **Aykanat, Cevdet; et al., 89k:65050**
(Ershov, A. P.) *see* **Hoare, C. A. R., 89k:68001**
Fantechi, Alessandro *see* **Aceto, Luca; et al., 89a:68142**
Fischer, Michael (*with* Immerman, Neil) Interpreting logics of knowledge in propositional dynamic logic with converse. **89k:68095**

Gajic, Z. Quasi-decentralized multimodel estimation of linear systems. (*see* **89c:00031**)
Galil, Zvi (*with* Pan, V.) Improved processor bounds for combinatorial problems in RNC. **89i:05215**
von zur Gathen, Joachim Computing powers in parallel. **89j:68060**
Giancarlo, Raffaele *see* **Capocelli, R. M., 89i:68066**
Gibbons, Alan (*with* Rytter, Wojciech) An optimal parallel algorithm for dynamic expression evaluation and its applications. **89a:68087**
Glukhova, L. A. A binary-decimal multiplication method for matrix structures. (Russian) **89h:65071**
Golovanov, P. N. (*with* Solodovnikov, V. I.) Rapid parallel calculation of degrees in a quotient ring of polynomials over a finite field. (Russian) **89h:11080**
Gouda, Mohamed G. *see* **Anderson, James H.**, (Not in MR)
Grümberg, O. *see* **Browne, M. C.; et al., 89k:03030**
Guibas, Leonidas J. *see* **Aggarwal, Alok; et al., 89h:68141**
Haghoo, M. (*with* Proskurowski, Włodzimierz) Parallel efficiency of a domain decomposition method. (*see* **89j:65010**)
Harel, David On visual formalisms. **89d:68070**
Hauschildt, Dirk (*with* Valk, Rüdiger) Safe states in banker-like resource allocation problems. **89e:68028**
He, Xin (*with* Yesha, Yaacov) Binary tree algebraic computation and parallel algorithms for simple graphs. **89e:68050**
Henderson, Tom *see* **Samal, Ashok**, (Not in MR)
Hesselink, Wim H. Interpretations of recursion under unbounded nondeterminacy. **89i:68082**
Ho, James K. (*with* Lee, Tak C.; Sundarraj, R. P.) Decomposition of linear programs using parallel computation. **89k:90098**
Hoare, C. A. R. ★ Communicating sequential processes. **89b:68003**
— ★ Взаимодействующие последовательные процессы. (Russian) [Communicating sequential processes] **89k:68001**
Hsu, Meichun (*with* Madnick, Stuart E.) Shifting timestamps for concurrency control in an information hierarchy. **89k:68032**
Hunt, H. B., III *see* **Rosenkrantz, Daniel J., 89m:68053**
Immerman, Neil *see* **Fischer, Michael, 89k:68095**
Jameson, Donald A. *see* **Casey, Richard M., 89h:68155**
Jung, Hermann (*with* Mehlhorn, Kurt) Parallel algorithms for computing maximal independent sets in trees and for updating minimum spanning trees. **89f:68025**
Kadane, Joseph B. Parallel and sequential computation: a statistician's view. **89b:65331**
Kailath, Thomas Signal processing applications of some moment problems. **89e:94001**
Kessels, J. L. W. An exercise in proving self-stabilization with a variant function. **89j:68106**
Kiehn, Astrid On the interrelation between synchronized and nonsynchronized behaviour of Petri nets. (German and Russian summaries) **89i:68083**
Kindervater, G. A. P. (*with* Lenstra, J. K.) Parallel computing in combinatorial optimization. **89i:90063**
Kirchner, R. (*with* Kulisch, U.) Schaltungsanordnung und Verfahren zur schnellen Berechnung von Summen und Skalarprodukten von Gleitkommazahlen mit maximaler Genauigkeit mittels Pipelinetechnik. [Circuit diagrams and methods for fast computation of sums and scalar products of floating point numbers with maximal accuracy via pipeline technique] (*see* **89i:00018**)
Knuth, Elõd *see* **Dang Van Hung, 89h:68099**
Krämer, Ottmar (*with* Mühlenbein, H.) Mapping strategies in message-based multiprocessor systems. (*see* **89j:68053**)
Kreowski, Hans-Jörg Is parallelism already concurrency? I. Derivations in graph grammars. (*see* **89b:68009**)
— (*with* Wilharm, Anne) Is parallelism already concurrency? II. Nonsequential processes in graph grammars. (*see* **89b:68009**)
Krist, S. E. *see* **Nosenchuck, D. M.; et al., 89k:76007**
Kulisch, U. *see* **Kirchner, R.**, (**89i:00018**)
Lee, Tak C. *see* **Ho, James K.; et al., 89k:90098**
Lehtonen, Tapani Scheduling jobs with exponential processing times on parallel machines. **89j:68018**
Lenstra, J. K. *see* **Kindervater, G. A. P., 89i:90063**
Li, Ming^{1} (*with* Yesha, Yaacov) Separation and lower bounds for ROM and nondeterministic models of parallel computation. **89e:68030**
Lynch, Nancy *see* **Dwork, Cynthia; et al., 89c:68008** *and* **Burns, James E., 89i:68002**
Madnick, Stuart E. *see* **Hsu, Meichun, 89k:68032**
Mangasarian, O. L. (*with* De Leone, R.) Parallel gradient projection successive overrelaxation for symmetric linear complementarity problems and linear programs. **89i:90089**
Mansour, Y. (*with* Zaks, S.) On the bit complexity of distributed computations in a ring with a leader. **89b:68038**
Marchetti, Sergio *see* **Degano, Pierpaolo, 89m:68085**
Mayr, Ernst *see* **Anderson, Richard John, 89j:68057**
Mehlhorn, Kurt *see* **Jung, Hermann, 89f:68025**
Meijer, Henk (*with* Akl, Selim G.) Optimal computation of prefix sums on a binary tree of processors. **89a:68105**
Meyer, J.-J. Ch. *see* **de Bakker, J. W., 89a:68144**
Miranker, Willard L. (*with* Winkler, Andrew M.) Causality in algorithms and architectures. **89i:68010**
Mirkowska, Grażyna (*with* Salwicki, Andrzej) On axiomatic definition of MAX-model of concurrency. **89a:68149**
Montanari, Ugo *see* **Degano, Pierpaolo, 89a:68148**
Mühlenbein, H. *see* **Krämer, Ottmar**, (**89j:68053**)
Mullender, Sape J. (*with* Vitányi, Paul M. B.) Distributed match-making. **89k:68009**
Müller, Heinrich Augustinus *see* **Abramowski, S., 89h:68140**
Nosenchuck, D. M. (*with* Krist, S. E.; Zang, T. A.) On multigrid methods for the Navier-Stokes computer. **89k:76007**
Ó'Dúnlaing, Colm *see* **Aggarwal, Alok; et al., 89h:68141**
Özgüner, Füsun *see* **Aykanat, Cevdet; et al., 89k:65050**
Pan, V. *see* **Galil, Zvi, 89i:05215**
Parberry, Ian ★ Parallel complexity theory. **89b:68002**
Penczek, Wojciech A temporal logic for event structures. **89i:68091**
Peters, Joseph G. (*with* Rudolph, Larry) Parallel approximation schemes for subset sum and knapsack problems. **89a:68093**
Petkov, Assen Propositional dynamic logic in two and more dimensions. **89j:03024**
Phillips, A. T. (*with* Rosen, J. B.) A parallel algorithm for solving the linear complementarity problem. **89j:90252**
Pippenger, Nicholas Reliable computation in the presence of noise. **89h:68003**
— Sorting and selecting in rounds. **89h:68019**
Plaisted, D. A. A decision procedure for combinations of propositional temporal logic and other specialized theories. **89k:03007**
Proskurowski, Włodzimierz *see* **Haghoo, M.**, (**89j:65010**)
Rapp, D. *see* **Chang, H. Y.; et al., 89c:65143**
Reed, G. M. (*with* Roscoe, A. W.) Metric spaces as models for real-time concurrency. **89j:68103**
Reif, John H. (*with* Tygar, J. D.) Efficient parallel pseudorandom number generation. **89k:68072**
Rinnooy Kan, A. H. G. *see* **de Bruin, Arie; et al., 89k:90134**
Roscoe, A. W. *see* **Reed, G. M., 89j:68103**
Rosen, J. B. *see* **Phillips, A. T., 89j:90252**
Rosenkrantz, Daniel J. (*with* Hunt, H. B., III) Matrix multiplication for finite algebraic systems. **89m:68053**
Rothstein, Jerome Bus versus cellular automata, and ultimate limitations of parallel processing. **89i:68032**
Royer, James S. ★ A connotational theory of program structure. **89f:68011**
Rudolph, Larry *see* **Peters, Joseph G., 89a:68093**
Rytter, Wojciech Parallel time $O(\log n)$ recognition of unambiguous context-free languages. **89f:68029**
— *see also* **Gibbons, Alan, 89a:68087**
Sadayappan, Ponnuswamy *see* **Aykanat, Cevdet; et al., 89k:65050**
Salama, M. *see* **Chang, H. Y.; et al., 89c:65143**
Salwicki, Andrzej *see* **Mirkowska, Grażyna, 89a:68149**
Samal, Ashok (*with* Henderson, Tom) Parallel consistent labeling algorithms. (Not in MR)
Schäffer, Alejandro A. A tighter upper bound on the worst case behavior of Conway's parallel sorting algorithm. **89k:68028**
Shamir, Eli Distributed network algorithms. (*see* **89m:68002**)
Siromoney, Rani Models of computation. (*see* **89h:00004**)
Smedinga, Rein Using trace theory to model discrete events. **89e:68040**
Solodovnikov, V. I. *see* **Golovanov, P. N., 89h:11080**
Soroker, Danny Fast parallel strong orientation of mixed graphs and related augmentation problems. **89d:68073**
Spirakis, Paul Optimal parallel randomized algorithms for sparse addition and identification. **89d:68032**
Stockmeyer, Larry *see* **Dwork, Cynthia; et al., 89c:68008**
Stöhr, Elena A trade-off between page number and page width of book embeddings of graphs. **89i:05110**
Stojmenović, I. *see* **Dehne, Frank, 89e:68010**
Sundarraj, R. P. *see* **Ho, James K.; et al., 89k:90098**
Takagi, Naofumi *see* **Yasuura, Hiroto; et al., 89b:68030**
Trienekens, H. W. J. M. *see* **de Bruin, Arie; et al., 89k:90134**
Tygar, J. D. *see* **Reif, John H., 89k:68072**
Ullman, Jeffrey D. (*with* Van Gelder, Allen) Parallel complexity of logical query programs. **89d:68010**
Utku, S. *see* **Chang, H. Y.; et al., 89c:65143**
Valk, Rüdiger *see* **Hauschildt, Dirk, 89e:68028**
Van Gelder, Allen *see* **Ullman, Jeffrey D., 89d:68010**
Vitányi, Paul M. B. *see* **Mullender, Sape J., 89k:68009**
Wilharm, Anne *see* **Kreowski, Hans-Jörg**, (**89b:68009**)
Wilson, Christopher B. Relativized NC. **89d:68023**
Winkler, Andrew M. *see* **Miranker, Willard L., 89i:68010**
Yajima, Shuzo *see* **Yasuura, Hiroto; et al., 89b:68030**
Yap, Chee-Keng *see* **Aggarwal, Alok; et al., 89h:68141**
Yasuura, Hiroto (*with* Takagi, Naofumi; Yajima, Shuzo) On high-speed parallel algorithms using redundant coding. **89b:68030**
Yesha, Yaacov *see* **Li, Ming^{1}, 89e:68030** *and* **He, Xin, 89e:68050**
Zaks, S. *see* **Mansour, Y., 89b:68038**
Zang, T. A. *see* **Nosenchuck, D. M.; et al., 89k:76007**

68Q15 Complexity classes

Ajtai, Miklós (*with* Gurevich, Yuri) Monotone versus positive. **89a:68068**
Ambos-Spies, Klaus Polynomial time degrees of NP-sets. (*see* **89m:68002**)
Amir, Amihood (*with* Gasarch, William) Polynomial terse sets. **89c:68032**
Babai, László Random oracles separate PSPACE from the polynomial-time hierarchy. **89k:68046**
Bajaj, Chanderjit Geometric optimization and the polynomial hierarchy. **89c:68033**
Balcázar, José L. (*with* Díaz, Josep; Gabarró, J.) On characterizations of the class PSPACE/poly. **89c:68034**
Bebják, Andrej (*with* Štefáneková, Ivana) Nondeterminism is essential for reversal-bounded two-way multihead finite automata. **89g:68017**
Bertoni, Alberto (*with* Mauri, G.; Sabadini, Nicoletta) On the class NL with oracle. (Russian summary) **89k:68047**
Book, Ronald V. Separating relativized complexity classes. **89e:68034**
— (*with* Orponen, P.; Russo, D.; Watanabe, Osamu) Lowness properties of sets in the exponential-time hierarchy. **89h:68049**
— (*with* Ko, Ker-I) On sets truth-table reducible to sparse sets. **89i:68039**
Brown, Cynthia A. *see* **Purdom, Paul Walton, Jr., 89c:68038**
Chan, Tat Hung The boundedness problem for three-dimensional vector addition systems with states. **89b:68028**
Chen, Zhi Xiang A note on the relativized $\mathrm{P} \overset{?}{=} \mathrm{NP}$ problem. (Chinese) (Not in MR)

Cho, Sang (*with* Húynh, Dũng T.) On a complexity hierarchy between L and NL. **89m:68038**
Courcelle, Bruno (*with* Gallier, Jean H.) Decidable subcases of the equivalence problem for recursive program schemes. (French summary) **89j:68054**
Díaz, Josep *see* **Balcázar, José L.; et al., 89c:68034**
Du, Ding Zhu (*with* Ko, Ker-I) Some completeness results on decision trees and group testing. **89a:68069**
— *see also* **Ko, Ker-I; et al., 89c:68036**
Dymond, Patrick W. Input-driven languages are in log n depth. **89e:68035**
van Emde Boas, Peter Complexity of symbolic computing. **89m:68039**
Fellows, Michael R. (*with* Langston, Michael A.) Nonconstructive advances in polynomial-time complexity. **89c:68035**
— (*with* Friesen, Donald K.; Langston, Michael A.) On finding optimal and near-optimal lineal spanning trees. **89m:68040**
Fortnow, Lance (*with* Sipser, Michael) Are there interactive protocols for co-NP languages? **89i:68040**
Friesen, Donald K. *see* **Fellows, Michael R.; et al., 89m:68040**
Gabarró, J. *see* **Balcázar, José L.; et al., 89c:68034**
Gallier, Jean H. *see* **Courcelle, Bruno, 89j:68054**
Gallo, Giorgio (*with* Scutellà, Maria Grazia) Polynomially solvable satisfiability problems. **89m:68041**
Gasarch, William *see* **Amir, Amihood, 89c:68032**
von zur Gathen, Joachim Feasible arithmetic computations: Valiant's hypothesis. **89f:68021**
Georgakopoulos, George (*with* Kavvadias, Dimitris; Papadimitriou, Christos H.) Probabilistic satisfiability. **89e:68036**
Grädel, Erich Domino games with an application to the complexity of Boolean algebras with bounded quantifier alternations. **89e:68037**
Greibach, Sheila A. *see* **Rolim, José D. P., 89f:68022**
Grollmann, Joachim (*with* Selman, Alan L.) Complexity measures for public-key cryptosystems. **89h:68050**
Gundermann, Thomas (*with* Wechsung, Gerd) Counting classes with finite acceptance types. (Russian summary) **89k:68048**
Gurevich, Yuri *see* **Ajtai, Miklós, 89a:68068**
Hartmanis, Juris (*with* Hemachandra, Lane) On sparse oracles separating feasible complexity classes. **89i:68041**
Håstad, Johan One-way permutations in NC^0. **89h:68051**
Hemachandra, Lane *see* **Hartmanis, Juris, 89i:68041**
Homer, Steven (*with* Long, Timothy J.) Honest polynomial degrees and P =?NP. **89a:68070**
Hromkovič, Juraj Reversal-bounded nondeterministic multicounter machines and complementation. **89a:68071**
Huang, Wen Qi (*with* Yu, Xiang Dong) A DNF without regular shortest consensus path. **89i:68042**
Húynh, Dũng T. On solving hard problems by polynomial-size circuits. **89a:68072**
— *see also* **Cho, Sang, 89m:68038**
Ibarra, Oscar H. (*with* Jiang, Tao; Ravikumar, Bala) Some subclasses of context-free languages in NC^1. **89j:68055**
Jenner, Birgit (*with* Kirsig, Bernd) Characterizing the polynomial hierarchy by alternating auxiliary pushdown automata. **89i:68043**
Jiang, Tao *see* **Ibarra, Oscar H.; et al., 89j:68055**
Johnson, David Stifler The NP-completeness column: an ongoing guide. **89j:68056**
Kavvadias, Dimitris *see* **Georgakopoulos, George; et al., 89e:68036**
Kirousis, Lefteris M. (*with* Papadimitriou, Christos H.) Searching and pebbling. **89a:68073**
Kirsig, Bernd *see* **Jenner, Birgit, 89i:68043**
Ko, Ker-I Continuous optimization problems and a polynomial hierarchy of real functions. **89k:68049**
— On the notion of infinite pseudorandom sequences. **89a:68074**
— (*with* Long, Timothy J.; Du, Ding Zhu) On one-way functions and polynomial-time isomorphisms. **89c:68036**
— On helping by robust oracle machines. **89a:68075**
— *see also* **Du, Ding Zhu, 89a:68069** *and* **Book, Ronald V., 89i:68039**
Köbler, Johannes (*with* Schöning, Uwe; Torán, Jacobo) On counting and approximation. **89h:68052**
Koppel, Moshe Complexity, depth, and sophistication. **89c:68037**
Krause, Matthias Exponential lower bounds on the complexity of local and real-time branching programs. (German and Russian summaries) **89i:68044**
Lange, Klaus-Jörn Decompositions of nondeterministic reductions. **89i:68045**
Langston, Michael A. *see* **Fellows, Michael R., 89c:68035** *and* **89m:68040**
Long, Timothy J. Erratum: "On restricting the size of oracles compared with restricting access to oracles" [SIAM J. Comput. **14** (1985), no. 3, 585–597; MR 87h:68053]. **89d:68020**
— *see also* **Homer, Steven, 89a:68070** *and* **Ko, Ker-I; et al., 89c:68036**
Luo, Zhi-Quan *see* **Tsitsiklis, John N., 89c:68039**
Marchenkov, S. S. The complexity of the search for a deterministic subautomaton. **89m:68042**
Mauri, G. *see* **Bertoni, Alberto; et al., 89k:68047**
Meinel, Christoph The nonuniform complexity classes $\mathcal{NC}^1$, $\mathcal{L}$ and $\mathcal{NL}$. (German and Russian summaries) **89m:68043**
— The power of polynomial size Ω-branching programs. **89d:68021**
Miyano, Satoru Indexing alternating finite automata and binary tree-like circuits. **89g:68018**
— A parallelizable lexicographically first maximal edge-induced subgraph problem. **89e:68038**
Mundici, Daniele Satisfiability in many-valued sentential logic is NP-complete. **89a:68076**
Nigmatullin, R. G. Two classes of proofs of lower bounds on complexity. (Russian) **89g:68019**
— Models of lower-bounds proofs. **89a:68077**
Orponen, P. *see* **Book, Ronald V.; et al., 89h:68049**
Pan, V. Complexity of parallel matrix computations. **89d:68022**
Papadimitriou, Christos H. (*with* Ullman, Jeffrey D.) A communication-time tradeoff. **89a:68078**
— *see also* **Kirousis, Lefteris M., 89a:68073** *and* **Georgakopoulos, George; et al., 89e:68036**
Purdom, Paul Walton, Jr. (*with* Brown, Cynthia A.) Polynomial-average-time satisfiability problems. **89c:68038**
Ravikumar, Bala *see* **Ibarra, Oscar H.; et al., 89j:68055**
Regan, Kenneth W. The topology of provability in complexity theory. **89k:68050**
Rolim, José D. P. (*with* Greibach, Sheila A.) On the IO-complexity and approximation languages. **89f:68022**
Russo, D. *see* **Book, Ronald V.; et al., 89h:68049**
Sabadini, Nicoletta *see* **Bertoni, Alberto; et al., 89k:68047**
Savage, John E. ★ The complexity of computing. **89b:68029**
Schöning, Uwe (*with* Wagner, Klaus Werner) Collapsing oracle hierarchies, census functions and logarithmically many queries. **89k:68051**
— *see also* **Köbler, Johannes; et al., 89h:68052**
Scutellà, Maria Grazia *see* **Gallo, Giorgio, 89m:68041**
Selman, Alan L. Promise problems complete for complexity classes. **89m:68044**
— *see also* **Grollmann, Joachim, 89h:68050**
Sipser, Michael *see* **Fortnow, Lance, 89i:68040**
Štefáneková, Ivana *see* **Bebják, Andrej, 89g:68017**
Timkovskiĭ, V. G. Some recognition problems that are connected with the isomorphism of graphs. **89m:68045**
Torán, Jacobo *see* **Köbler, Johannes; et al., 89h:68052**
Torenvliet, Leen A second step toward the strong polynomial-time hierarchy. **89m:68046**
Tsitsiklis, John N. (*with* Luo, Zhi-Quan) Communication complexity of convex optimization. **89c:68039**
Ullman, Jeffrey D. *see* **Papadimitriou, Christos H., 89a:68078**
Wagner, Klaus Werner *see* **Schöning, Uwe, 89k:68051**
Watanabe, Osamu A comparison of polynomial time completeness notions. **89c:68040**
— *see also* **Book, Ronald V.; et al., 89h:68049**
Wechsung, Gerd *see* **Gundermann, Thomas, 89k:68048**
Wegener, Ingo The range of new lower bound techniques for WRAMs and bounded depth circuits. (German and Russian summaries) **89i:68046**
Wilson, Christopher B. Relativized NC. **89d:68023**
Yu, Xiang Dong *see* **Huang, Wen Qi, 89i:68042**
Zachos, Stathis Probabilistic quantifiers and games. **89i:68047**
Zhang, Shu Hua Complexity analysis of some problems in finite automata. (Chinese. English summary) **89a:68079**
Zimand, Marius On relativizations with restricted number of accesses to the oracle set. **89a:68080**

Items with secondary classifications in 68Q15

Aaby, A. A. (*with* Narayana, K. T.) Propositional temporal interval logic is PSPACE complete. (*see* **89c:68004**)
Aalbersberg, IJsbrand Jan (*with* Engelfriet, Joost; Rozenberg, Grzegorz) Restricting the complexity of regular DNLC languages. (*see* **89b:68009**)
Aggarwal, Alok (*with* Anderson, Richard John) A random $\mathcal{NC}$ algorithm for depth first search. **89m:68054**
Alexi, Werner (*with* Chor, Benny; Goldreich, Oded; Schnorr, C.-P.) RSA and Rabin functions: certain parts are as hard as the whole. **89j:11120**
Anderson, Richard John *see* **Aggarwal, Alok, 89m:68054**
Anick, David J. On the computational complexity of rational homotopy. **89d:55028**
— The computation of rational homotopy groups is $\#\mathcal{P}$-hard. **89m:55006**
Azarenok, A. S. (*with* Krikun, V. S.) A clique in an n-partite graph and optimal orientations of functional blocks of integral schemes. (Russian. English summary) **89h:68059**
Bachem, A. (*with* Euler, Reinhardt) Recent trends in combinatorial optimization. I. (Chinese) **89m:90129**
— (*with* Euler, Reinhardt) Recent trends in combinatorial optimization. II. (Chinese) **89m:90130**
Baĭzhumanov, A. A. *see* **Kabulov, A. V., 89i:94057**
Bajaj, Chanderjit (*with* Li, Ming^1) Geometric optimization and D^P-completeness. **89m:90131**
Balcázar, José L. (*with* Russo, D.) Immunity and simplicity in relativizations of probabilistic complexity classes. (French summary) **89i:03077**
Baskaran, G. *see* **Wille, L. T.; et al., 89d:90096**
Bauernöppel, Frank Degree bounds and sub-Hamiltonian cycles in planar graphs. **89d:68025**
(Baum, Eric) *see* **Wille, L. T.; et al., 89d:90096**
(Berman, Leonard) *see* **Chang, Jik H.; et al., 89a:68048**
Berwick, Robert C. Computational complexity, mathematical linguistics, and linguistic theory. (*see* **89a:68006**)
Bienstock, Daniel (*with* Monma, Clyde L.) On the complexity of covering vertices by faces in a planar graph. **89d:05064**
Book, Ronald V. Towards a theory of relativizations: positive relativizations. **89c:03064**
Börger, Egon (*with* Löwen, Ulrich) Logical decision problems and complexity of logic programs. **89c:03065**
— Logic as machine: complexity relations between programs and formulae. (*see* **89m:68002**)
Brandenburg, Franz-J. On polynomial time graph grammars. **89c:68068**
Brassard, Gilles (*with* Crépeau, Claude) Zero-knowledge simulation of Boolean circuits. **89c:94031**
Chan, Tat Hung On two-way weak counter machines. **89a:68047**
Chang, Jik H. (*with* Ibarra, Oscar H.; Ravikumar, Bala) Erratum: "Some observations concerning alternating Turing machines using small space" [Inform. Process. Lett. **25** (1987), no. 1, 1–9; MR 88e:68026] by the authors and L. Berman. **89a:68048**
Chlebus, Bogdan S. Proving NP-completeness using bounded tiling. (German and Russian summaries) **89c:05034**
Chor, Benny *see* **Alexi, Werner; et al., 89j:11120**
Clark, Lane H. (*with* Entringer, R. C.; Fellows, Michael R.) Computational complexity of integrity. **89c:05046**
Colbourn, Charles J. *see* **El-Mallah, Ehab S., 89d:68068** *and* **89i:05159**

Cook, Stephen A. Short propositional formulas represent nondeterministic computations. **89i:68028**
— *see also* **McKenzie, Pierre, 89a:68104**
(Cover, Thomas M.) *see* **Open problems in communication and computation, 89c:94003**
Crépeau, Claude *see* **Brassard, Gilles, 89c:94031**
Daley, Robert P. (*with* Smith, Carl H.) On the complexity of inductive inference. **89a:03049**
Du, Jianzhong (*with* Leung, Joseph Y.-T.) Scheduling tree-structured tasks with restricted execution times. **89g:68023**
El-Mallah, Ehab S. (*with* Colbourn, Charles J.) Edge detection problems: properties defined by weakly connected forbidden graphs. **89i:05159**
— (*with* Colbourn, Charles J.) The complexity of some edge deletion problems. **89d:68068**
van Emde Boas, Peter Space measures for storage modification machines. **89m:68028**
— *see also* **Slot, Cees, 89i:68033**
Engelfriet, Joost *see* **Aalbersberg, IJsbrand Jan; et al.**, (**89b:68009**)
Entringer, R. C. *see* **Clark, Lane H.; et al., 89c:05046**
Euler, Reinhardt *see* **Bachem, A., 89m:90129** *and* **89m:90130**
Fellows, Michael R. *see* **Clark, Lane H.; et al., 89c:05046**
Fich, Faith E. (*with* Meyer auf der Heide, Friedhelm; Wigderson, Avi) Lower bounds for parallel random-access machines with unbounded shared memory. **89e:68031**
Fischer, Michael (*with* Immerman, Neil) Interpreting logics of knowledge in propositional dynamic logic with converse. **89k:68095**
Freivalds, Rūsiņš The operating time of error-free probabilistic Turing machines. (Russian) **89a:03074**
Friedman, Harvey *see* **Ko, Ker-I, 89c:03098**
Gasarch, William Oracles: three new results. **89k:03046**
von zur Gathen, Joachim Factoring polynomials and primitive elements for special primes. **89a:11126**
Goguen, Joseph A. *see* **Moss, Lawrence S.; et al., 89e:68088**
Goldreich, Oded *see* **Alexi, Werner; et al., 89j:11120**
Goldschmidt, Yadin Y. *see* **Lai, Pik-Yin, 89a:05120**
(Gopinath, B.) *see* **Open problems in communication and computation, 89c:94003**
Grädel, Erich Subclasses of Presburger arithmetic and the polynomial-time hierarchy. **89m:03030**
Gurevich, Yuri Logic and the challenge of computer science. (*see* **89m:68002**)
Hammer, P. L. (*with* Liu, Yan Pei) Ordering relations and 0-1 programming problems. I. (Chinese) **89k:90110a**
— (*with* Liu, Yan Pei) Ordering relations and 0-1 programming problems. II. (Chinese. English summary) **89k:90110b**
Hirata, Tomio *see* **Yamasaki, Hiroshi; et al., 89d:68011**
Ibaraki, Toshihide *see* **Yamasaki, Hiroshi; et al., 89d:68011**
Ibarra, Oscar H. (*with* Ravikumar, Bala) Relating the degree of ambiguity of finite automata to the succinctness of their representation. **89a:68052**
— (*with* Ravikumar, Bala) Sublogarithmic-space Turing machines, nonuniform space complexity, and closure properties. **89i:68030**
— *see also* **Chang, Jik H.; et al., 89a:68048**
Imai, Masaharu *see* **Yamasaki, Hiroshi; et al., 89d:68011**
Immerman, Neil *see* **Fischer, Michael, 89k:68095**
Inoue, Katsushi (*with* Takanami, Itsuo) Some considerations about NPRIORITY(1) without ROM. **89j:68048**
Jerrum, Mark Two-dimensional monomer-dimer systems are computationally intractable. **89d:82008**
Kabulov, A. V. (*with* Baĭzhumanov, A. A.) A method for determining the maximal compatible subsystems of a system of Boolean equations. (Russian) **89i:94057**
Karhumäki, Juhani The equivalence of mappings on languages. **89g:68039**
Kindervater, G. A. P. (*with* Lenstra, J. K.) Parallel computing in combinatorial optimization. **89i:90063**
Kleine Büning, Hans (*with* Lettmann, Theodor) First-order formulas in conjunctive quantificational form. **89c:03015**
Knuth, Donald E. (*with* Papadimitriou, Christos H.; Tsitsiklis, John N.) A note on strategy elimination in bimatrix games. **89k:90187**
Ko, Ker-I (*with* Friedman, Harvey) Computing power series in polynomial time. **89c:03098**
Köbler, Johannes (*with* Schöning, Uwe; Wagner, Klaus Werner) The difference and truth-table hierarchies for NP. (French summary) **89g:03058**
Kolmogorov, A. N. (*with* Uspenskiĭ, V. A.) Algorithms and randomness. (Russian) **89d:68035**
Krasulina, E. G. Complexity of the realization of monotone symmetric Boolean functions by switching circuits. (Russian) **89i:94058**
Krikun, V. S. *see* **Azarenok, A. S., 89h:68059**
Kubale, Marek The complexity of scheduling independent two-processor tasks on dedicated processors. **89d:90119**
Kurtz, Stuart A. A note on randomized polynomial time. **89c:03066**
Lai, Pik-Yin (*with* Goldschmidt, Yadin Y.) Application of statistical mechanics to combinatorial optimization problems: the chromatic number problem and q-partitioning of a graph. **89a:05120**
Lange, Klaus-Jörn Complexity theory and formal languages. (*see* **89g:68002**)
Lautemann, Clemens Decomposition trees: structured graph representation and efficient algorithms. **89m:68062**
Lenstra, J. K. *see* **Kindervater, G. A. P., 89i:90063**
Lettmann, Theodor *see* **Kleine Büning, Hans, 89c:03015**
Leung, Joseph Y.-T. *see* **Du, Jianzhong, 89g:68023**
Li, Ming^1 *see* **Bajaj, Chanderjit, 89m:90131**
Liu, Yan Pei *see* **Hammer, P. L., 89k:90110a** *and* **89k:90110b**
Lloyd, Errol L. (*with* Soffa, Mary Lou; Wang, Ching-Chy) On locating minimum feedback vertex sets. **89k:68121**
Löwen, Ulrich *see* **Börger, Egon, 89c:03065**
Luby, Michael (*with* Rackoff, Charles) How to construct pseudorandom permutations from pseudorandom functions. **89i:68025**
Luks, E. M. Computing the composition factors of a permutation group in polynomial time. **89c:20007**
McKenzie, Pierre (*with* Cook, Stephen A.) The parallel complexity of abelian permutation group problems. **89a:68104**
Meinel, Christoph Projection complete graph problems corresponding to a branching-program-based characterization of the complexity classes $\mathscr{NC}^1$, $\mathscr{L}$ and $\mathscr{NL}$. **89e:68054**
Meseguer, José *see* **Moss, Lawrence S.; et al., 89e:68088**
Meyer auf der Heide, Friedhelm *see* **Fich, Faith E.; et al., 89e:68031**
Monma, Clyde L. *see* **Bienstock, Daniel, 89d:05064**
Moss, Lawrence S. (*with* Meseguer, José; Goguen, Joseph A.) Final algebras, cosemicomputable algebras, and degrees of unsolvability. **89e:68088**
Narayana, K. T. *see* **Aaby, A. A.**, (**89c:68004**)
Papadimitriou, Christos H. *see* **Knuth, Donald E.; et al., 89k:90187**
Pippenger, Nicholas Correction to: "Computational complexity of algebraic functions" [J. Comput. System Sci. 22 (1981), no. 3, 454–470; MR 82m:12001]. **89m:03031**
Poizat, Bruno Oracles génériques. [Generic oracles] **89k:03047**
Pudlák, Pavel On complexity. (Czech) (Not in MR)
Rackoff, Charles *see* **Luby, Michael, 89i:68025**
Ravikumar, Bala *see* **Chang, Jik H.; et al., 89a:68048; Ibarra, Oscar H., 89a:68052** *and* **89i:68030**
Razborov, A. A. Lower bounds on the dimension of schemes of bounded depth in a complete basis containing the logical addition function. (Russian) **89h:03110**
Reif, John H. (*with* Smolka, Scott A.) The complexity of reachability in distributed communicating processes. **89j:68050**
Rosier, Louis E. (*with* Yen, Hsu-Chun) On the complexity of deciding fair termination of probabilistic concurrent finite-state programs. **89m:68036**
Rozenberg, Grzegorz *see* **Aalbersberg, IJsbrand Jan; et al.**, (**89b:68009**)
Russo, D. *see* **Balcázar, José L., 89i:03077**
Schnorr, C.-P. *see* **Alexi, Werner; et al., 89j:11120**
Schöning, Uwe *see* **Köbler, Johannes; et al., 89g:03058**
Semenov, M. A. (*with* Terkel′, D. A.) Games of probabilistic and deterministic algorithms of bounded complexity. (Russian) **89j:68041**
(Shao, Jia Yu) *see* **Bachem, A., 89m:90129**
Sistla, A. Prasad (*with* Vardi, Moshe Y.; Wolper, Pierre) The complementation problem for Büchi automata with applications to temporal logic. **89a:68056**
Slot, Cees (*with* van Emde Boas, Peter) The problem of space invariance for sequential machines. **89i:68033**
Smith, Carl H. *see* **Daley, Robert P., 89a:03049**
Smolka, Scott A. *see* **Reif, John H., 89j:68050**
Soffa, Mary Lou *see* **Lloyd, Errol L.; et al., 89k:68121**
Solodovnikov, V. V. (*with* Tumarkin, V. I.) Theory of complexity, systems design and computer-aided design. (Russian) **89h:93005**
Springsteel, F. N. A restricted design methodology to allow testing for BCNF in polynomial time. (Hungarian summary) **89e:68023**
Stein, D. L. *see* **Wille, L. T.; et al., 89d:90096**
Szepietowski, Andrzej Remarks on languages acceptable in $\log\log n$ space. **89d:68033**
Takanami, Itsuo *see* **Inoue, Katsushi, 89j:68048**
Takeuti, Gaisi Complexity theory and proof theory. (Japanese) **89a:03076**
Terkel′, D. A. *see* **Semenov, M. A., 89j:68041**
Tsitsiklis, John N. *see* **Knuth, Donald E.; et al., 89k:90187**
Tumarkin, V. I. *see* **Solodovnikov, V. V., 89h:93005**
Tuza, Zsolt On the context-free production complexity of finite languages. **89a:68130**
Ullman, Jeffrey D. (*with* Van Gelder, Allen) Parallel complexity of logical query programs. **89d:68010**
Uspenskiĭ, V. A. *see* **Kolmogorov, A. N., 89d:68035**
Van Gelder, Allen *see* **Ullman, Jeffrey D., 89d:68010**
Vardi, Moshe Y. *see* **Sistla, A. Prasad; et al., 89a:68056**
Wagner, Klaus Werner *see* **Köbler, Johannes; et al., 89g:03058**
Wang, Ching-Chy *see* **Lloyd, Errol L.; et al., 89k:68121**
(Wang, Zhe Min) *see* **Bachem, A., 89m:90130**
Wegener, Ingo ★ The complexity of Boolean functions. **89b:03066**
(Wei, Guo Hua) *see* **Bachem, A., 89m:90130**
Wigderson, Avi *see* **Fich, Faith E.; et al., 89e:68031**
Wille, L. T. (*with* Baskaran, G.; Stein, D. L.) Comments on: "Intractable computations without local minima" [Phys. Rev. Lett. 57 (1986), no. 21, 2764–2767; MR 87j:90054] by E. B. Baum. **89d:90096**
Wolper, Pierre *see* **Sistla, A. Prasad; et al., 89a:68056**
Yamasaki, Hiroshi (*with* Hirata, Tomio; Imai, Masaharu; Ibaraki, Toshihide) Computational complexity of the file allocation problem in distributed database systems. **89d:68011**
Yang, Dong Ping The existence of a minimal honest polynomial degree below any recursively enumerable degree. **89i:03079**
Yen, Hsu-Chun *see* **Rosier, Louis E., 89m:68036**
Zimand, Marius Complexity bounded Martin-Löf tests. **89i:68064**

Items listed otherwise than by author

Open problems in communication and computation ★ Open problems in communication and computation. **89c:94003**

68Q20 Nonnumerical algorithms {For numerical algorithms, see 65–XX; for combinatorics and graph theory, see 68Rxx.}

Alon, Noga (*with* Galil, Zvi; Milman, Vitali D.) Better expanders and superconcentrators. **89f:68023**
Anderson, Richard John (*with* Mayr, Ernst) Parallelism and greedy algorithms. **89j:68057**
Babai, László (*with* Just, Bettina; Meyer auf der Heide, Friedhelm) On the limits of computations with the floor function. **89h:68053**
Bartholdi, John J., III (*with* Vande Vate, John H.; Zhang, Jixian) Expected performance of the shelf heuristic for 2-dimensional packing. **89k:68052**
Bertolazzi, Paola (*with* Sassano, Antonio) An $O(mn)$ algorithm for regular set-covering problems. **89c:68041**
Bertossi, Alan A. On the domatic number of interval graphs. **89h:68054**

Bhasker, Jayaram (*with* Sahni, Sartaj) A linear algorithm to find a rectangular dual of a planar triangulated graph. **89a:68081**

Blumer, J. How much is that DAWG in the window? A moving window algorithm for the directed acyclic word graph. **89a:68082**

Burghardt, Jochen A tree pattern matching algorithm with reasonable space requirements. **89j:68058**

Chandran, Sharat (*with* Rosenfeld, Azriel) Order statistics on a hypercube. (Not in MR)

Chaudhuri, Pranay Fast parallel graph searching with applications. **89a:68083**

Ch'ên, Chien Hui (*with* Yu, M. S.; Liu, Lung T'ien) Two algorithms for constructing a binary tree from its traversals. **89i:68048**

Chrobak, Marek (*with* Harter, Richard) A note on random sampling. **89m:68047**

Čomić, Lidija *see* **Stojmenović, I.**, (Not in MR)

Coppersmith, Don (*with* Raghavan, Prabhakar) Multidimensional on-line bin packing: algorithms and worst-case analysis. **89k:68053**

(Darlington, J.) *see* **Jacobs, Dean, 89i:68051**

Feather, Martin *see* **Jacobs, Dean, 89i:68051**

Fernández-Baca, David Nonserial dynamic programming formulations of satisfiability. **89m:68048**

Frenk, J. B. G. (*with* Galambos, G.) Hybrid next-fit algorithm for the two-dimensional rectangle bin-packing problem. (German summary) **89a:68084**

Furst, Merrick L. (*with* Gross, Jonathan L.; McGeoch, Lyle A.) Finding a maximum-genus graph imbedding. **89i:68049**

Gabow, Harold N. Scheduling UET systems on two uniform processors and length two pipelines. **89j:68059**

Gaganov, A. A. Parallel calculation of arithmetic expressions with one-place functions. (Russian. English summary) **89i:68050**

Galambos, G. *see* **Frenk, J. B. G., 89a:68084**

Galil, Zvi (*with* Hoffmann, Christoph; Luks, E. M.; Schnorr, C.-P.; Weber, Andreas) An $O(n^3 \log n)$ deterministic and an $O(n^3)$ Las Vegas isomorphism test for trivalent graphs. **89c:68043**

— (*with* Giancarlo, Raffaele) Parallel string matching with k mismatches. **89a:68085**

— (*with* Landau, Gad M.; Yung, Mordechai M.) Distributed algorithms in synchronous broadcasting networks. **89a:68086**

— (*with* Giancarlo, Raffaele) Data structures and algorithms for approximate string matching. **89c:68042**

— *see also* **Alon, Noga; et al., 89f:68023**

von zur Gathen, Joachim Computing powers in parallel. **89j:68060**

Giancarlo, Raffaele *see* **Galil, Zvi, 89a:68085** *and* **89c:68042**

Gibbons, Alan (*with* Rytter, Wojciech) An optimal parallel algorithm for dynamic expression evaluation and its applications. **89a:68087**

Goldstein, Nahum B. *see* **Nguyen, Loc Bao; et al., (89f:68003)**

Gonzalez, Teofilo F. (*with* Lee, Sing-Ling) A 1.6 approximation algorithm for routing multiterminal nets. **89a:68088**

Gorgui-Naguib, R. N. (*with* King, Robert A.) Comments on: "Matrix processors using p-adic arithmetic for exact linear computations" [IEEE Trans. Comput. **26** (1977), no. 7, 633–639; MR **57** #7963] by E. V. Krishnamurthy. **89f:68024**

Gries, David *see* **Xue, Jin Yun**, (Not in MR)

Gross, Jonathan L. *see* **Furst, Merrick L.; et al., 89i:68049**

Guo, Rui Feng Some new matrix operations and their applications in nonnumerical computation. (Chinese. English summary) **89e:68039**

Hadlock, Frank Minimum detour methods for string or sequence comparison. **89k:68054**

Hare, E. O. (*with* Hedetniemi, S. T.) A linear algorithm for computing the Knight's domination number of a $k \times n$ chessboard.

Harter, Richard *see* **Chrobak, Marek, 89m:68047**

Hedetniemi, S. T. *see* **Hare, E. O.**, (Not in MR)

Ho, Chin Wen (*with* Lee, Richard C. T.) Efficient parallel algorithms for finding maximal cliques, clique trees, and minimum coloring on chordal graphs. **89k:68055**

Hoffmann, Christoph *see* **Galil, Zvi; et al., 89c:68043**

Hoffmann, Frank (*with* Kriegel, Klaus) Embedding rectilinear graphs in linear time. **89k:68056**

Hsu, Wen-Lian The coloring and maximum independent set problems on planar perfect graphs. **89m:68049**

Hunt, H. B., III *see* **Rosenkrantz, Daniel J., 89m:68053**

Ivanov, A. G. Recognition of the occurrence of words in real time on finite multihead automata. (Russian) **89h:68055**

Jacobs, Dean (*with* Feather, Martin) Corrections to: "A synthesis of several sorting algorithms" [Acta Inform. **11** (1978/79), no. 1, 1–30; MR 80e:68024] by J. Darlington. **89i:68051**

Jukna, Stasys On an entropic method for obtaining lower bounds on the complexity of Boolean functions. **89g:68020**

Just, Bettina *see* **Babai, László; et al., 89h:68053**

Kannan, Ravindran (*with* Lenstra, A. K.; Lovász, L.) Polynomial factorization and nonrandomness of bits of algebraic and some transcendental numbers. **89j:68061**

Karlsson, Rolf G. (*with* Overmars, Mark H.) Normalized divide-and-conquer: a scaling technique for solving multidimensional problems. **89a:68089**

Karp, Richard M. (*with* Rabin, Michael O.) Efficient randomized pattern-matching algorithms. **89g:68021**

Kfoury, A. J. A linear-time algorithm to decide whether a binary word contains an overlap. (French summary) **89h:68056**

King, Robert A. *see* **Gorgui-Naguib, R. N., 89f:68024**

Kriegel, Klaus *see* **Hoffmann, Frank, 89k:68056**

(Krishnamurthy, E. V.) *see* **Gorgui-Naguib, R. N., 89f:68024**

Kumar, S. Kiran (*with* Pandu Rangan, C.) A linear space algorithm for the LCS problem. **89c:68044**

Landau, Gad M. *see* **Galil, Zvi; et al., 89a:68086**

Lee, Richard C. T. *see* **Ho, Chin Wen, 89k:68055**

Lee, Sing-Ling *see* **Gonzalez, Teofilo F., 89a:68088**

Leiserson, Charles E. (*with* Maggs, Bruce M.) Communication-efficient parallel algorithms for distributed random-access machines. **89a:68090**

Lenstra, A. K. *see* **Kannan, Ravindran; et al., 89j:68061**

Liu, Lung T'ien *see* **Ch'ên, Chien Hui; et al., 89i:68048**

Lovász, L. *see* **Kannan, Ravindran; et al., 89j:68061**

Luks, E. M. *see* **Galil, Zvi; et al., 89c:68043**

Maffioli, Francesco Randomized heuristics for NP-hard problems. **89k:68057**

Maggs, Bruce M. (*with* Plotkin, Serge A.) Minimum-cost spanning tree as a path-finding problem. **89a:68091**

— *see also* **Leiserson, Charles E., 89a:68090**

Matoušek, Jiří (*with* Nešetřil, Jaroslav; Thomas, Robin) On polynomial time decidability of induced-minor-closed classes. **89m:68050**

Mayr, Ernst *see* **Anderson, Richard John, 89j:68057**

McGeoch, Lyle A. *see* **Furst, Merrick L.; et al., 89i:68049**

Melkemi, Lamine (*with* Tchuente, Maurice) Un réseau linéaire pour la reconnaissance des mots sans carré. (English summary) [A linear array for the recognition of squarefree words] **89h:68057**

Meyer auf der Heide, Friedhelm Fast algorithms for n-dimensional restrictions of hard problems. **89m:68051**

— *see also* **Babai, László; et al., 89h:68053**

Milman, Vitali D. *see* **Alon, Noga; et al., 89f:68023**

Mittal, Hari Ballabh A fast backtrack algorithm for graph isomorphism. **89j:68062**

Mulmuley, Ketan (*with* Vazirani, Umesh V.; Vazirani, Vijay V.) Matching is as easy as matrix inversion. **89a:68092**

Naor, Joseph (*with* Naor, Moni; Schäffer, Alejandro A.) Fast parallel algorithms for chordal graphs. **89m:68052**

Naor, Moni *see* **Naor, Joseph; et al., 89m:68052**

Nešetřil, Jaroslav *see* **Matoušek, Jiří; et al., 89m:68050**

Nguyen, Loc Bao (*with* Perkowski, Marek A.; Goldstein, Nahum B.) PALMINI—fast Boolean minimizer for personal computers. (*see* **89f:68003**)

Overmars, Mark H. *see* **Karlsson, Rolf G., 89a:68089**

Pandu Rangan, C. *see* **Kumar, S. Kiran, 89c:68044**

Perkowski, Marek A. *see* **Nguyen, Loc Bao; et al., (89f:68003)**

Peters, Joseph G. (*with* Rudolph, Larry) Parallel approximation schemes for subset sum and knapsack problems. **89a:68093**

Plotkin, Serge A. *see* **Maggs, Bruce M., 89a:68091**

Podkolzin, A. S. (*with* Ush·chumlich, Sh. M.) On states accessibility in automata schemes. **89h:68058**

Qi, Yu Lu A systolic approach for an improvement of a finite field multiplier. (Not in MR)

Rabin, Michael O. *see* **Karp, Richard M., 89g:68021**

Raghavan, Prabhakar *see* **Coppersmith, Don, 89k:68053**

Razborov, A. A. Formulas of bounded depth in the basis $\{\&, \oplus\}$ and some combinatorial problems. (Russian) **89d:68024**

Rosenfeld, Azriel *see* **Chandran, Sharat**, (Not in MR)

Rosenkrantz, Daniel J. (*with* Hunt, H. B., III) Matrix multiplication for finite algebraic systems. **89m:68053**

Rudolph, Larry *see* **Peters, Joseph G., 89a:68093**

Rytter, Wojciech *see* **Gibbons, Alan, 89a:68087**

Sahni, Sartaj *see* **Bhasker, Jayaram, 89a:68081**

Sassano, Antonio *see* **Bertolazzi, Paola, 89c:68041**

Schäffer, Alejandro A. *see* **Naor, Joseph; et al., 89m:68052**

Schnorr, C.-P. *see* **Galil, Zvi; et al., 89c:68043**

Shamir, Eli Distributed network algorithms. (*see* **89m:68002**)

Shannon, Gregory E. A linear-processor algorithm for depth-first search in planar graphs. **89i:68052**

Siromoney, Rani Models of computation. (*see* **89h:00004**)

— NP completeness. (*see* **89h:00004**)

Smedinga, Rein Using trace theory to model discrete events. **89e:68040**

Stojmenović, I. (*with* Čomić, Lidija) Parallel algorithms for finding the measure of the union of intervals. (Serbo-Croatian summary) (Not in MR)

Takagi, Naofumi *see* **Yasuura, Hiroto; et al., 89b:68030**

Tarasova, L. G. The problem of finding an unordered system of maximal power for a 2-indexed combinatorial configuration, and an algorithm for its solution. (Russian) **89j:68063**

Tarhio, Jorma (*with* Ukkonen, Esko) A greedy approximation algorithm for constructing shortest common superstrings. **89j:68064**

Tchuente, Maurice *see* **Melkemi, Lamine, 89h:68057**

Thomas, Robin *see* **Matoušek, Jiří; et al., 89m:68050**

Tsin, Yung Hyang On handling vertex deletion in updating minimum spanning trees. (Not in MR)

Ukkonen, Esko *see* **Tarhio, Jorma, 89j:68064**

Ush·chumlich, Sh. M. *see* **Podkolzin, A. S., 89h:68058**

Vande Vate, John H. *see* **Bartholdi, John J., III; et al., 89k:68052**

Vazirani, Umesh V. *see* **Mulmuley, Ketan; et al., 89a:68092**

Vazirani, Vijay V. *see* **Mulmuley, Ketan; et al., 89a:68092**

Vishkin, Uzi An optimal parallel algorithm for selection. **89c:68045**

Weber, Andreas *see* **Galil, Zvi; et al., 89c:68043**

Xue, Jin Yun (*with* Gries, David) Developing a linear algorithm for cubing a cyclic permutation. (Not in MR)

Yajima, Shuzo *see* **Yasuura, Hiroto; et al., 89b:68030**

Yasuura, Hiroto (*with* Takagi, Naofumi; Yajima, Shuzo) On high-speed parallel algorithms using redundant coding. **89b:68030**

Yu, M. S. *see* **Ch'ên, Chien Hui; et al., 89i:68048**

Yung, Mordechai M. *see* **Galil, Zvi; et al., 89a:68086**

Zhang, Jixian *see* **Bartholdi, John J., III; et al., 89k:68052**

Items with secondary classifications in 68Q20

Allouche, Jean-Paul Tours de Hanoi et automates finis. [Towers of Hanoi and finite automata] (*see* **89b:11004**)

Alt, Helmut (*with* Welzl, Emo) Visibility graphs and obstacle-avoiding shortest paths. (German summary) **89k:68141**

Apostolico, Alberto (*with* Hambrusch, Susanne E.) Finding maximum cliques on circular-arc graphs. **89a:68094**

Arnborg, Stefan *see* **Tidén, Erik, 89a:68141**

Arnon, Dennis S. (*with* McCallum, Scott) A polynomial-time algorithm for the topological type of a real algebraic curve. **89k:12005**

Atkinson, Michael D. (*with* Ng, D. T. H.) On the width of an orientation of a tree. **89i:06001**

Aurenhammer, F. Improved algorithms for discs and balls using power diagrams. **89h:68142**

Beissinger, Janet Simpson Similar constructions for Young tableaux and involutions, and their application to shiftable tableaux. **89e:05019**

(Bӧrger, Egon) *see* **Trends in theoretical computer science, 89m:68002**

Bracha, Gabriel An $O(\log n)$ expected rounds randomized Byzantine Generals protocol. **89a:68014**

Brassard, Gilles (*with* Kannan, Sampath) The generation of random permutations on the fly. **89h:68016**

(Brezinski, Claude) *see* **Delahaye, Jean-Paul, 89i:65003**

Chlebus, Bogdan S. Proving NP-completeness using bounded tiling. (German and Russian summaries) **89c:05034**

Colbourn, Charles J. Exact algorithms for network reliability. **89b:68014**

Cook, Stephen A. (*with* Luby, Michael) A simple parallel algorithm for finding a satisfying truth assignment to a 2-CNF formula. **89h:68039**

Culik, Karel, II (*with* Yu, Sheng) The emptiness problem for CA limit sets. **89j:68114**

Dahlhaus, E. (*with* Israeli, A.; Makowsky, J. A.) On the existence of polynomial time algorithms for interpolation problems in propositional logic. **89j:03006**

De Felice, Clelia Construction of a family of finite maximal codes. **89d:94049**

Delahaye, Jean-Paul ★ Sequence transformations. **89i:65003**

De Leone, R. *see* **Mangasarian, O. L., 89i:90089**

Demazure, M. Le théorème de complexité de Mayr et Meyer. [The Mayr-Meyer complexity theorem] **89f:12002**

Ding, Ke Quan (*with* Wang, Zhi Li) An improvement on the scheme-moving-down algorithm for the partition of a random permutation. (Chinese) (Not in MR)

Edelsbrunner, Herbert (*with* Preparata, F. P.) Minimum polygonal separation. **89f:68064**

Fisher, David C. Next-fit packs a list and its reverse into the same number of bins. **89k:90135**

Franco, John (*with* Ho, Yuan Chuan) Probabilistic performance of a heuristic for the satisfiability problem. **89j:03032**

Frederickson, Greg N. (*with* Srinivas, Mandayam A.) On-line updating of solutions to a class of matroid intersection problems. **89m:05033**

Hambrusch, Susanne E. *see* **Apostolico, Alberto, 89a:68094**

Ho, Yuan Chuan *see* **Franco, John, 89j:03032**

Hoang, C. T. (*with* Reed, B. A.) P_4-comparability graphs. **89m:05098**

Holenderski, Leszek (*with* Szałas, Andrzej) Propositional description of finite cause-effect structures. **89h:68010**

(Hong, Jia Rong) *see* **Olariu, Stephan; et al., 89j:68149**

Hunt, H. B., III *see* **Ravi, S. S., 89a:68177**

Israeli, A. *see* **Dahlhaus, E.; et al., 89j:03006**

Ivanov, Evgeniĭ Alekseevich^1 (*with* Shevchenko, V. P.) ★ Анализ параллельных алгоритмов при ограничениях на ресурсы. (Russian) [Analysis of parallel algorithms with constraints on the resources] **89k:68016**

Jerinić, Ljubomir *see* **Stojmenović, I.**, (Not in MR)

Kaltofen, Erich Greatest common divisors of polynomials given by straight-line programs. **89e:12002**

Kannan, Sampath *see* **Brassard, Gilles, 89h:68016**

Karp, Richard M. (*with* Motwani, Rajeev; Raghavan, Prabhakar) Deferred data structuring. **89m:68013**

Karr, Michael Theory of summation in finite terms. **89a:12016**

Kedem, Zvi Meir *see* **Lee, Peizong**, (Not in MR)

Kondrat′ev, A. I. Algorithms with memory for solving problems of the computation of properties. **89d:68077**

Korach, E. (*with* Moran, Shlomo; Zaks, S.) The optimality of distributive constructions of minimum weight and degree restricted spanning trees in a complete network of processors. **89b:68012**

Kunde, Manfred (*with* Langston, Michael A.; Liu, Jin-Ming^2) On a special case of uniform processor scheduling. **89c:68016**

Langston, Michael A. *see* **Kunde, Manfred; et al., 89c:68016**

Latishev, V. M. (*with* Mīkhal′ov, O. V.; Pankrat′ev, E. V.) Construction of canonical simplifiers in modules over rings of polynomials. (Ukrainian. Russian summary) **89c:13002**

Lee, Peizong (*with* Kedem, Zvi Meir) Synthesizing linear array algorithms from nested for loop algorithms. (Not in MR)

van Leeuwen, Jan *see* **Tel, Gerard; et al., 89e:68008**

Li, Guang *see* **Yang, Chao Chih; et al., 89j:68031**

Liu, Jin-Ming^2 *see* **Kunde, Manfred; et al., 89c:68016**

Luby, Michael *see* **Cook, Stephen A., 89h:68039**

Makowsky, J. A. *see* **Dahlhaus, E.; et al., 89j:03006**

Mangasarian, O. L. (*with* De Leone, R.) Parallel gradient projection successive overrelaxation for symmetric linear complementarity problems and linear programs. **89i:90089**

Mazoyer, Jacques A six-state minimal time solution to the firing squad synchronization problem. **89f:68026**

Mazurkiewicz, Antoni Solvability of the asynchronous ranking problem. **89h:68015**

McCallum, Scott *see* **Arnon, Dennis S., 89k:12005**

Mīkhal′ov, O. V. *see* **Latishev, V. M.; et al., 89c:13002**

Moran, Shlomo *see* **Korach, E.; et al., 89b:68012**

Motwani, Rajeev *see* **Karp, Richard M.; et al., 89m:68013**

Neumann, Peter M. Some algorithms for computing with finite permutation groups. **89b:20004**

Ng, D. T. H. *see* **Atkinson, Michael D., 89i:06001**

Ng, Peter Ann-Beng *see* **Yang, Chao Chih; et al., 89j:68031**

Olariu, Stephan (*with* Toida, S.; Zubair, M.) On a conjecture by D. A. Plaisted and J. R. Hong. Comment on: "A heuristic triangulation algorithm" [J. Algorithms **8** (1987), no. 3, 405–437; MR 88g:68104]. **89j:68149**

Pankrat′ev, E. V. *see* **Latishev, V. M.; et al., 89c:13002**

(Plaisted, D. A.) *see* **Olariu, Stephan; et al., 89j:68149**

Pohst, Michael A modification of the LLL reduction algorithm. **89c:11183**

Preparata, F. P. *see* **Edelsbrunner, Herbert, 89f:68064**

Raghavan, Prabhakar *see* **Karp, Richard M.; et al., 89m:68013**

Ravi, S. S. (*with* Hunt, H. B., III) An application of the planar separator theorem to counting problems. **89a:68177**

Reed, B. A. *see* **Hoang, C. T., 89m:05098**

Shevchenko, V. P. *see* **Ivanov, Evgeniĭ Alekseevich**^{1}, **89k:68016**

Soroker, Danny Fast parallel strong orientation of mixed graphs and related augmentation problems. **89d:68073**

Spesivtsev, A. V. Error estimation for two list algorithms for solving the resource allocation problem. (Russian) **89a:68022**

Srinivas, Mandayam A. *see* **Frederickson, Greg N., 89m:05033**

Stanfel, L. E. Mathematical optimization and the synchronizing properties of encodings. **89g:94041**

Stojmenović, I. ★ Some combinatorial and algorithmic problems in many-valued logics. **89g:03034**

— (*with* Jerinić, Ljubomir) Finding the diameter of a point set on mesh-connected computers. (Serbo-Croatian summary) (Not in MR)

Sysło, Maciej M. An algorithm for solving the jump number problem. **89k:06003**

Szałas, Andrzej *see* **Holenderski, Leszek, 89h:68010**

Tan, Richard B. *see* **Tel, Gerard; et al., 89e:68008**

Tel, Gerard (*with* Tan, Richard B.; van Leeuwen, Jan) The derivation of graph marking algorithms from distributed termination detection protocols. **89e:68008**

Tidén, Erik (*with* Arnborg, Stefan) Unification problems with one-sided distributivity. **89a:68141**

Toida, S. *see* **Olariu, Stephan; et al., 89j:68149**

Topkis, Donald M. A k shortest path algorithm for adaptive routing in communications networks. **89f:90057**

Toussaint, Godfried T. Some collision avoidance problems in the plane. (*see* **89a:68011**)

Tsakalidis, Athanasios K. The nearest common ancestor in a dynamic tree. **89a:68030**

Waner, Stefan (*with* Wu, Yihren) The hierarchical structure of graph searches. **89a:68198**

Wang, Zhi Li *see* **Ding, Ke Quan**, (Not in MR)

Weber, Richard R. Stochastic scheduling on parallel processors and minimization of concave functions of completion times. **89c:68017**

Welzl, Emo *see* **Alt, Helmut, 89k:68141**

Wiedermann, Juraj ★ Searching algorithms. **89d:68004**

Wu, Yihren *see* **Waner, Stefan, 89a:68198**

Yang, Chao Chih (*with* Li, Guang; Ng, Peter Ann-Beng) An improved algorithm based on subset closures for synthesizing a relational database scheme. **89j:68031**

Yu, Sheng *see* **Culik, Karel, II, 89j:68114**

Zaks, S. *see* **Korach, E.; et al., 89b:68012**

Zubair, M. *see* **Olariu, Stephan; et al., 89j:68149**

Items listed otherwise than by author

Lectures:

Computation theory ★ Trends in theoretical computer science. **89m:68002**

Trends in theoretical computer science ★ Trends in theoretical computer science. **89m:68002**

Udine ★ Trends in theoretical computer science. **89m:68002**

68Q25 Analysis of algorithms

Aggarwal, Alok (*with* Anderson, Richard John) A random $\mathscr{NC}$ algorithm for depth first search. **89m:68054**

Aiba, Akira Relative efficiencies of reduction machines. **89e:68041**

Akl, Selim G. *see* **Meijer, Henk, 89a:68105**

Anderson, Richard John A parallel algorithm for the maximal path problem. **89e:68042**

— *see also* **Aggarwal, Alok, 89m:68054**

Apostolico, Alberto (*with* Hambrusch, Susanne E.) Finding maximum cliques on circular-arc graphs. **89a:68094**

— (*with* Iliopoulos, Costas S.; Landau, Gad M.; Schieber, Baruch; Vishkin, Uzi) Parallel construction of a suffix tree with applications. **89i:68053**

Arbib, Claudio A polynomial characterization of some graph partitioning problems. **89e:68043**

Arocha Pérez, Jorge Luis Computational complexity of existence problems for matchings in graphs. (Spanish. English summary) **89a:68095**

Atallah, Mikhail J. (*with* Kosaraju, S. Rao) Efficient solutions to some transportation problems with applications to minimizing robot arm travel. **89i:68054**

Atkinson, Michael D. (*with* Santoro, Nicola) A practical algorithm for Boolean matrix multiplication. **89j:68065**

Attiya, Hagit (*with* Mansour, Y.) Language complexity on the synchronous anonymous ring. **89b:68031**

Avis, David (*with* Lai, C. W.) The probabilistic analysis of a heuristic for the assignment problem. **89j:68066**

Azarenok, A. S. (*with* Krikun, V. S.) A clique in an n-partite graph and optimal orientations of functional blocks of integral schemes. (Russian. English summary) **89h:68059**

Ball, Michael O. *see* **Provan, J. Scott, 89m:68064**

Bar-Noy, T. *see* **Friedman, M.; et al., 89i:68055**

Bauernöppel, Frank Degree bounds and sub-Hamiltonian cycles in planar graphs. **89d:68025**

Belaga, Edward G. Bilinear mincing rank. **89k:68058**

Bender, Edward A. (*with* Butler, Jon T.) On the size of PLAs required to realize binary and multiple-valued functions. **89k:68059**

Bertossi, Alan A. (*with* Gori, Alessandro) Total domination and irredundance in weighted interval graphs. **89m:68055**

Bezem, Marc (*with* van Leeuwen, Jan) On estimating the complexity of logarithmic decompositions. **89a:68096**

Bini, D. (*with* Pan, V.) Polynomial division and its computational complexity. **89k:68060**

Blau, Matthias *see* **Friedman, M.; et al., 89i:68055**

Borwein, J. M. (*with* Borwein, P. B.) On the complexity of familiar functions and numbers. **89k:68061**
Borwein, P. B. *see* **Borwein, J. M., 89k:68061**
Brandstädt, Andreas *see* **Müller, Haiko, 89a:68106**
Bshouty, Nader H. *see* **Kaminski, Michael; et al., 89m:68061**
Butler, Jon T. *see* **Bender, Edward A., 89k:68059**
Carlson, David A. Time-space efficient algorithms for computing convolutions and related problems. **89a:68097**
— Upper and lower bounds on time-space tradeoffs for computations with embedded fast Fourier transforms. **89d:68026**
Chaitin, Gregory J. ★ Algorithmic information theory. **89g:68022**
Chor, Benny (*with* Goldreich, Oded) Unbiased bits from sources of weak randomness and probabilistic communication complexity. **89e:68044**
(Chuyan, O. R.) *see* **Traub, Joseph Frederick; et al., 89i:68062**
Coffman, E. G., Jr. (*with* Lueker, G. S.; Rinnooy Kan, A. H. G.) Asymptotic methods in the probabilistic analysis of sequencing and packing heuristics. **89e:68045**
Colbourn, Charles J. Network resilience. **89j:68067**
Cole, Richard (*with* Vishkin, Uzi) Approximate parallel scheduling. I. The basic technique with applications to optimal parallel list ranking in logarithmic time. **89k:68062**
Cook, Stephen A. *see* **McKenzie, Pierre, 89a:68104**
Csirik, J. (*with* Totik, V.) Online algorithms for a dual version of bin packing. **89k:68063**
Cybenko, George Load balancing and partitioning for parallel signal processing and control algorithms. **89m:68056**
Daderkin, D. O. On the relation between the height and the register complexity of terms. (Russian) **89e:68046**
De Santis, Alfredo (*with* Micali, Silvio; Persiano, Giuseppe) Noninteractive zero-knowledge proof systems. (*see* **89b:68005**)
Doran, R. W. Variants of an improved carry look-ahead adder. **89h:68060**
Du, Jianzhong (*with* Leung, Joseph Y.-T.) Scheduling tree-structured tasks with restricted execution times. **89g:68023**
Dwork, Cynthia (*with* Kanellakis, Paris C.; Stockmeyer, Larry) Parallel algorithms for term matching. **89m:68057**
Er, M. C. A linear space algorithm for solving the Towers of Hanoi problem by using a virtual disc. **89k:68064**
Fages, François Associative-commutative unification. **89a:68098**
Farr, Graham The complexity of multicolouring. **89d:68027**
Federickson, Greg N. Fast algorithms for shortest paths in planar graphs, with applications. **89g:68024**
Fernández Camacho, M. I. Average size of simplified trees. (Spanish. English summary) **89d:68028**
Flajolet, Philippe Mathematical methods in the analysis of algorithms and data structures. (*see* **89m:68002**)
Friedman, M. (*with* Bar-Noy, T.; Blau, Matthias; Kandel, Abraham) Certain computational aspects of fuzzy decision trees. **89i:68055**
Gabow, Harold N. (*with* Tarjan, Robert E.) A linear-time algorithm for finding a minimum spanning pseudoforest. **89e:68047**
Gambosi, Giorgio (*with* Italiano, Giuseppe F.; Talamo, Maurizio) Getting back to the past in the union-find problem. **89c:68046**
Garey, M. R. *see* **Megiddo, Nimrod; et al., 89d:68030**
Gashkov, S. B. Computational complexity of some classes of polynomials of several variables. **89h:68061**
Gavril, Fănică Generating the maximum spanning trees of a weighted graph. **89a:68099**
Gerstel, O. (*with* Mansour, Y.; Zaks, S.) Bit complexity of order statistics on a distributed star network. **89k:68065**
Gibbons, Alan (*with* Israeli, A.; Rytter, Wojciech) Parallel $O(\log n)$ time edge-colouring of trees and Halin graphs. **89a:68100**
Gibson, J. K. A generalisation of Brickell's algorithm for fast modular multiplication. **89m:68058**
Goldreich, Oded *see* **Chor, Benny, 89e:68044**
Goodrich, Michael T. Finding the convex hull of a sorted point set in parallel. **89c:68047**
Gori, Alessandro *see* **Bertossi, Alan A., 89m:68055**
Greene, Daniel H. (*with* Knuth, Donald E.) ★ Математические методы анализа алгоритмов. (Russian) [Mathematical methods for the analysis of algorithms] **89a:68101**
Grigor'eva, A. N. An algorithm of linear complexity for recognition of isomorphism of plane images. (Russian. English summary) **89i:68056**
Hakimi, S. Louis *see* **Megiddo, Nimrod; et al., 89d:68030**
Hambrusch, Susanne E. *see* **Apostolico, Alberto, 89a:68094**
Hammer, P. L. (*with* Simeone, B.; Liebling, Th. M.; de Werra, D.) From linear separability to unimodality: a hierarchy of pseudo-Boolean functions. **89m:68059**
Håstad, Johan Lower bounds in computational complexity theory. **89e:68048**
— Solving simultaneous modular equations of low degree. **89e:68049**
He, Xin (*with* Yesha, Yaacov) Binary tree algebraic computation and parallel algorithms for simple graphs. **89e:68050**
He, Zhi Jun *see* **Zhang, Wei; et al., 89k:68075**
Hofri, Micha ★ Probabilistic analysis of algorithms. **89g:68025**
Hu, Jie *see* **Li, Lei, 89i:68060**
Hunt, H. B., III (*with* Stearns, Richard E.) Nonlinear algebra and optimization on rings are "hard". **89h:68062**
Iliopoulos, Costas S. *see* **Apostolico, Alberto; et al., 89i:68053**
Imase, Makoto *see* **Waxman, Bernard M., 89k:68073**
Ishizaka, Hiroki Inductive inference of regular languages based on model inference. **89m:68060**
Israeli, A. *see* **Gibbons, Alan; et al., 89a:68100**
Italiano, Giuseppe F. *see* **Gambosi, Giorgio; et al., 89c:68046**
Jackowski, T. (*with* Woźniakowski, Henryk) Complexity of approximation with relative error criterion in worst, average, and probabilistic settings. **89a:68102**
Ja'Ja', Joseph (*with* Kosaraju, S. Rao) Parallel algorithms for planar graph isomorphism and related problems. **89g:68026**
Johnson, David Stifler (*with* Yannakakis, Mihalis; Papadimitriou, Christos H.) On generating all maximal independent sets. **89e:68051**
— *see also* **Megiddo, Nimrod; et al., 89d:68030**
Jung, Hermann (*with* Mehlhorn, Kurt) Parallel algorithms for computing maximal independent sets in trees and for updating minimum spanning trees. **89f:68025**
Kalorkoti, K. The trace invariant and matrix inversion. **89i:68057**
Kaminski, Michael An algorithm for polynomial multiplication that does not depend on the ring constants. **89k:68066**
— (*with* Kirkpatrick, David; Bshouty, Nader H.) Addition requirements for matrix and transposed matrix products. **89m:68061**
Kandel, Abraham *see* **Friedman, M.; et al., 89i:68055**
Kanellakis, Paris C. *see* **Dwork, Cynthia; et al., 89m:68057**
Kapralski, Adam (*with* Skarbek, Władysław) Problem of searching minimum base in Boolean tables. (Polish summary) (Not in MR)
Karpiński, M. (*with* Verbeek, Rutger) On the Monte Carlo space constructible functions and separation results for probabilistic complexity classes. **89b:68032**
— (*with* Wagner, Klaus Werner) The computational complexity of graph problems with succinct multigraph representation. (German summary) **89e:68052**
Katajainen, Jyrki (*with* Koppinen, Markku) Constructing Delaunay triangulations by merging buckets in quadtree order. **89k:68067**
Kemp, Rainer The analysis of an additive weight of random trees. (German and Russian summaries) **89i:68058**
Kirchherr, Walter W. Transposition of an $l \times l$ matrix requires $\Omega(\log l)$ reversals on conservative Turing machines. **89h:68063**
Kirchner, R. (*with* Kulisch, U.) Schaltungsanordnung und Verfahren zur schnellen Berechnung von Summen und Skalarprodukten von Gleitkommazahlen mit maximaler Genauigkeit mittels Pipelinetechnik. [Circuit diagrams and methods for fast computation of sums and scalar products of floating point numbers with maximal accuracy via pipeline technique] (*see* **89i:00018**)
Kirkpatrick, David *see* **Kaminski, Michael; et al., 89m:68061**
Knuth, Donald E. *see* **Greene, Daniel H., 89a:68101**
Ko, Ker-I On the computational complexity of best Chebyshev approximations. **89g:68027**
Koppinen, Markku *see* **Katajainen, Jyrki, 89k:68067**
Kosaraju, S. Rao *see* **Ja'Ja', Joseph, 89g:68026** *and* **Atallah, Mikhail J., 89i:68054**
Krichevskiĭ, R. E. Retrieval and data compression complexity. **89d:68029**
Krikun, V. S. *see* **Azarenok, A. S., 89h:68059**
Křivánek, Mirko The complexity of ultrametric partitions on graphs. **89h:68064**
— A note on the computational complexity of bracketing and related problems (extended abstract). (*see* **89g:68002**)
Krot, A. M. (*with* Minervina, E. B.) Synthesis of digital Fourier transformation algorithms for real sequences on the basis of polynomial algebra. **89i:68059**
Kučera, Luděk (*with* Trnková, Věra) Isomorphism testing of unary algebras. **89h:68065**
Kulisch, U. *see* **Kirchner, R.**, (**89i:00018**)
Kurtz, T. G. (*with* Manber, Udi) A probabilistic distributed algorithm for set intersection and its analysis. **89h:68066**
Lai, C. W. *see* **Avis, David, 89j:68066**
Landau, Gad M. (*with* Vishkin, Uzi) Fast string matching with k differences. **89h:68067**
— *see also* **Apostolico, Alberto; et al., 89i:68053**
Larcher, G. (*with* Tichy, Robert F.) A note on Gray code and odd-even merge. **89g:68028**
Latyshev, V. N. ★ Комбинаторная теория колец. (Russian) [Combinatorial ring theory] **89k:68068**
Lautemann, Clemens Decomposition trees: structured graph representation and efficient algorithms. **89m:68062**
van Leeuwen, Jan *see* **Bezem, Marc, 89a:68096**
Leung, Joseph Y.-T. *see* **Du, Jianzhong, 89g:68023**
Levin, L. A. One way functions and pseudorandom generators. **89c:68048**
Li, Lei (*with* Hu, Jie) The complexity of sequential and parallel algorithms for the Vandermonde matrices. (Chinese. English summary) **89i:68060**
— Multitriangular T-matrices and fast division of polynomials in several variables. (Chinese. English summary) **89k:68069**
Li, Ming[1] (*with* Yesha, Yaacov) The probabilistic and deterministic parallel complexity of symmetric functions. **89a:68103**
Liebling, Th. M. *see* **Hammer, P. L.; et al., 89m:68059**
Louchard, G. Random walks, Gaussian processes and list structures. **89j:68068**
Lueker, G. S. *see* **Coffman, E. G., Jr.; et al., 89e:68045**
Machida, H. A combinatorial method in lower bound theory. **89c:68049**
Manber, Udi *see* **Kurtz, T. G., 89h:68066**
Mannila, Heikki (*with* Wood, Derick) A note on the largest empty rectangle problem. **89e:68053**
Mansour, Y. *see* **Attiya, Hagit, 89b:68031** *and* **Gerstel, O.; et al., 89k:68065**
(Matiyasevich, Yu. V.) *see* **Greene, Daniel H., 89a:68101**
Mazoyer, Jacques A six-state minimal time solution to the firing squad synchronization problem. **89f:68026**
McKenzie, Pierre (*with* Cook, Stephen A.) The parallel complexity of abelian permutation group problems. **89a:68104**
Megiddo, Nimrod On the complexity of polyhedral separability. **89f:68027**
— (*with* Hakimi, S. Louis; Garey, M. R.; Johnson, David Stifler; Papadimitriou, Christos H.) The complexity of searching a graph. **89d:68030**
Mehlhorn, Kurt A faster approximation algorithm for the Steiner problem in graphs. **89d:68031**
— *see also* **Jung, Hermann, 89f:68025**
Meijer, Henk (*with* Akl, Selim G.) Optimal computation of prefix sums on a binary tree of processors. **89a:68105**
Meinel, Christoph Projection complete graph problems corresponding to a branching-program-based characterization of the complexity classes $\mathscr{NC}^1$, $\mathscr{L}$ and $\mathscr{NL}$. **89e:68054**
Micali, Silvio *see* **De Santis, Alfredo; et al.**, (**89b:68005**)
Minervina, E. B. *see* **Krot, A. M., 89i:68059**
Miyakawa, Masahiro Criteria for selecting a variable in the construction of efficient decision trees. **89j:68069**

Moffat, A. (*with* Takaoka, Tadao) An all pairs shortest path algorithm with expected time $O(n^2 \log n)$. **89c:68050**
Monjau, D. Zur mittleren Zeitkompliziertheit geometrischer algorithmen. [On the average time complexity of geometric algorithms] (*see* **89j:68005**)
Müller, Haiko (*with* Brandstädt, Andreas) The NP-completeness of STEINER TREE and DOMINATING SET for chordal bipartite graphs. **89a:68106**
Murgolo, Frank D. Anomalous behavior in bin packing algorithms. **89m:68063**
Nicol, David M. Expected performance of m-solution backtracking. **89k:68070**
Packel, Edward W. The algorithm designer versus nature: a game-theoretic approach to information-based complexity. **89j:68070**
— Do linear problems have linear optimal algorithms? **89h:68068**
Paige, Robert (*with* Tarjan, Robert E.) Three partition refinement algorithms. **89h:68069**
Pan, V. (*with* Reif, John H.) Extension of the parallel nested dissection algorithm to path algebra problems. **89b:68033**
— *see also* **Bini, D.**, **89k:68060**
Pandu Rangan, C. *see* **Ramalingam, G.**, **89i:68061**
Papachristou, Christos A. Associative table lookup processing for multioperand residue arithmetic. **89g:68029**
Papacostas Casanova, Alcibíades Circuit design: computational complexity of the problem of the least number of cards without bridges. (Spanish) (*see* **89k:00009**)
Papadimitriou, Christos H. *see* **Megiddo, Nimrod; et al.**, **89d:68030** *and* **Johnson, David Stifler; et al.**, **89e:68051**
Peleg, David (*with* Upfal, Eli) The generalized packet routing problem. **89k:68071**
Persiano, Giuseppe *see* **De Santis, Alfredo; et al.**, (**89b:68005**)
(Pokhodzeĭ, B. B.) *see* **Greene, Daniel H.**, **89a:68101**
Provan, J. Scott (*with* Ball, Michael O.) Efficient recognition of matroid and 2-monotonic systems. **89m:68064**
Pudlák, Pavel On complexity. (Czech) (Not in MR)
Ramachandran, Vijaya *see* **Shankar, Narayan**, (Not in MR)
Ramalingam, G. (*with* Pandu Rangan, C.) A unified approach to domination problems on interval graphs. **89i:68061**
Rawlins, Gregory J. E. (*with* Widmayer, Peter; Wood, Derick) Hole problems for rectangles in the plane. **89f:68028**
Reif, John H. (*with* Tygar, J. D.) Efficient parallel pseudorandom number generation. **89k:68072**
— *see also* **Pan, V.**, **89b:68033**
Renegar, James On the worst-case arithmetic complexity of approximating zeros of polynomials. **89a:68107**
Rhee, WanSoo T. (*with* Talagrand, Michel) Some distributions that allow perfect packing. **89m:68065**
Rinnooy Kan, A. H. G. *see* **Coffman, E. G., Jr.; et al.**, **89e:68045**
Rytter, Wojciech Parallel time $O(\log n)$ recognition of unambiguous context-free languages. **89f:68029**
— On efficient parallel computations of costs of paths on a grid graph. **89j:68071**
— *see also* **Gibbons, Alan; et al.**, **89a:68100**
Sántha, Miklós On using deterministic functions to reduce randomness in probabilistic algorithms. **89b:68034**
Santoro, Nicola *see* **Atkinson, Michael D.**, **89j:68065**
Sattler, J. (*with* Schnorr, C.-P.) Generating random walks in groups. **89a:68108**
Schaback, R. On the expected sublinearity of the Boyer-Moore algorithm. **89h:68070**
Schieber, Baruch *see* **Apostolico, Alberto; et al.**, **89i:68053**
Schnorr, C.-P. *see* **Sattler, J.**, **89a:68108**
Schönhage, Arnold Equation solving in terms of computational complexity. **89h:68071**
(Schwartz, Jacob T.) *see* **Chaitin, Gregory J.**, **89g:68022**
Shamir, Adi The search for provably secure identification schemes. **89m:68066**
Shankar, Narayan (*with* Ramachandran, Vijaya) Efficient parallel circuits and algorithms for division. (Not in MR)
Sheleva, A. S. Scheduling that is close to optimal for a class of algorithms. (Russian) (*see* **89m:65005**)
Simeone, B. *see* **Hammer, P. L.; et al.**, **89m:68059**
Simon, Klaus An improved algorithm for transitive closure on acyclic digraphs. **89j:68072**
Skarbek, Władysław *see* **Kapralski, Adam**, (Not in MR)
Soroker, Danny Fast parallel algorithms for finding Hamiltonian paths and cycles in a tournament. **89c:68051**
Spehner, Jean-Claude Deux transducteurs pour reconnaître les facteurs d'un langage fini dans un texte. (English summary) [Two transductors to recognize the factors of a finite language in a text] **89e:68055**
Spirakis, Paul (*with* Tampakas, Basil) Efficient distributed algorithms by using the Archimedean time assumption. **89c:68052**
— Optimal parallel randomized algorithms for sparse addition and identification. **89d:68032**
Stearns, Richard E. *see* **Hunt, H. B., III**, **89h:68062**
Stockmeyer, Larry *see* **Dwork, Cynthia; et al.**, **89m:68057**
(Sukharev, A. G.) *see* **Traub, Joseph Frederick; et al.**, **89i:68062**
(Sushkov, B. G.) *see* **Some algorithms for the planning of computations in deterministic real-time systems**, **89e:68058**
Szepietowski, Andrzej Remarks on languages acceptable in $\log\log n$ space. **89d:68033**
Takaoka, Tadao *see* **Moffat, A.**, **89c:68050**
Talagrand, Michel *see* **Rhee, WanSoo T.**, **89m:68065**
Talamo, Maurizio *see* **Gambosi, Giorgio; et al.**, **89c:68046**
Tampakas, Basil *see* **Spirakis, Paul**, **89c:68052**
Tardos, Éva The gap between monotone and nonmonotone circuit complexity is exponential. **89j:68073**
Tarjan, Robert E. *see* **Gabow, Harold N.**, **89e:68047** *and* **Paige, Robert**, **89h:68069**
Tichy, Robert F. *see* **Larcher, G.**, **89g:68028**
Totik, V. *see* **Csirik, J.**, **89k:68063**
Traub, Joseph Frederick (*with* Wasilkowski, G. W.; Woźniakowski, Henryk) ★ Информация, неопределённость, сложность. (Russian) [Information, uncertainty, complexity] **89i:68062**
Trnková, Věra *see* **Kučera, Luděk**, **89h:68065**
Tydykov, V. P. Inversion of an algorithm as a means of analysis of a model. (Russian) **89i:68063**
Tygar, J. D. *see* **Reif, John H.**, **89k:68072**
Upfal, Eli *see* **Peleg, David**, **89k:68071**
Urquhart, Alasdair Hard examples for resolution. **89e:68056**
Urzyczyn, P. Logics of programs with Boolean memory. **89f:68030**
Van Gelder, Allen A satisfiability tester for nonclausal propositional calculus. **89m:68067**
Vazirani, Umesh V. Strong communication complexity or generating quasirandom sequences from two communicating semirandom sources. **89f:68031**
Veni Madhavan, C. E. Finding maximum in a set. (*see* **89h:00004**)
Verbeek, Rutger *see* **Karpiński, M.**, **89b:68032**
Veroy, Boris S. Average complexity of divide-and-conquer algorithms. **89m:68068**
Vishkin, Uzi *see* **Landau, Gad M.**, **89h:68067**; **Apostolico, Alberto; et al.**, **89i:68053** *and* **Cole, Richard**, **89k:68062**
Wagner, Klaus Werner *see* **Karpiński, M.**, **89e:68052**
Wald, Ingolf An automatic speed-up of random access machines with powerful arithmetic instructions. **89g:68030**
Wasilkowski, G. W. *see* **Traub, Joseph Frederick; et al.**, **89i:68062**
Waxman, Bernard M. (*with* Imase, Makoto) Worst-case performance of Rayward-Smith's Steiner tree heuristic. **89k:68073**
Wegener, Ingo On the complexity of branching programs and decision trees for clique functions. **89e:68057**
de Werra, D. *see* **Hammer, P. L.; et al.**, **89m:68059**
Widmayer, Peter *see* **Rawlins, Gregory J. E.; et al.**, **89f:68028**
Wiedermann, Juraj Efficiency limits of parallel computer systems. (Slovak) (Not in MR)
Wood, Derick *see* **Mannila, Heikki**, **89e:68053** *and* **Rawlins, Gregory J. E.; et al.**, **89f:68028**
Woźniakowski, Henryk Probabilistic setting of information-based complexity. **89g:68031**
— *see also* **Jackowski, T.**, **89a:68102** *and* **Traub, Joseph Frederick; et al.**, **89i:68062**
Yannakakis, Mihalis *see* **Johnson, David Stifler; et al.**, **89e:68051**
Yesha, Yaacov *see* **Li, Ming^1**, **89a:68103** *and* **He, Xin**, **89e:68050**
Yu, Rui Zhao *see* **Zhang, Wei; et al.**, **89k:68075**
Zaks, S. *see* **Gerstel, O.; et al.**, **89k:68065**
Zellini, Paolo Optimal bounds for solving tridiagonal systems with preconditioning. **89k:68074**
Zhang, Wei (*with* Yu, Rui Zhao; He, Zhi Jun) A linear heuristic algorithm for graph search. (Chinese. English summary) **89k:68075**

Items listed otherwise than by author

Some algorithms for the planning of computations in deterministic real-time systems ★ Некоторые алгоритмы планирования вычислений в детерминированных системах реального времени. (Russian) [Some algorithms for the planning of computations in deterministic real-time systems] **89e:68058**

Items with secondary classifications in 68Q25

Abrahamson, Karl (*with* Adler, Andrew; Gelbart, Rachel; Higham, Lisa; Kirkpatrick, David) The bit complexity of randomized leader election on a ring. **89k:68038**
Adler, Andrew *see* **Abrahamson, Karl; et al.**, **89k:68038**
Adler, Ilan (*with* Karp, Richard M.; Shamir, Ron) A simplex variant solving an $m \times d$ linear program in $O(\min(m^2, d^2))$ expected number of pivot steps. **89m:90094**
Aggarwal, Alok (*with* Chazelle, Bernard; Guibas, Leonidas J.; Ó'Dúnlaing, Colm; Yap, Chee-Keng) Parallel computational geometry. **89h:68141**
Agogino, Alice M. *see* **Rege, Ashutosh**, **89k:68138**
Aigner, M. (*with* Triesch, E.) Searching for an edge in a graph. **89h:05030**
Akritas, Alkiviadis G. A new method for computing polynomial greatest common divisors and polynomial remainder sequences. **89e:68062**
Albertson, Michael O. (*with* Hutchinson, Joan P.) ★ Discrete mathematics with algorithms. **89i:05001**
Alon, Noga (*with* Azar, Y.) The average complexity of deterministic and randomized parallel comparison-sorting algorithms. **89k:68022**
Alt, Helmut Comparing the combinational complexities of arithmetic functions. **89g:68034**
— (*with* Welzl, Emo) Visibility graphs and obstacle-avoiding shortest paths. (German summary) **89k:68141**
Al-Thukair, Fawzi A. (*with* Zaguia, Nejib) Greedy linear extensions for minimizing bumps. **89e:06002**
Amin, A. T. (*with* Siegrist, K. T.; Slater, P. J.) Pair-connected reliability of a tree and its distance degree sequences. **89h:68118**
Ammons, Jane C. *see* **Platzman, Loren K.; et al.**, **89b:60036**
Anderson, James R. *see* **Peterson, Carsten**, **89d:90176**
Anderson, Richard John (*with* Mayr, Ernst) Parallelism and greedy algorithms. **89j:68057**
Andreatta, Giovanni (*with* Romeo, Luciano) Stochastic shortest paths with recourse. **89e:90093**
Angluin, Dana Learning regular sets from queries and counterexamples. **89h:68125**
Arquès, D. (*with* Françon, J.; Guichet, M. T.; Guichet, P.) Comparison of algorithms controlling concurrent access to a database: a combinatorial approach. **89h:68027**
Asano, Takao *see* **Edahiro, Masato; et al.**, **89m:68132**
Asarin, E. A. Some properties of finite sequences that are Δ-random in the sense of Kolmogorov. (Russian) **89j:68074**
Atallah, Mikhail J. (*with* Manacher, Glenn K.; Urrutia, Jorge) Finding a minimum independent dominating set in a permutation graph. **89j:05042**
Atkinson, Michael D. Selecting subsets of the correct density. **89a:68202**
— (*with* Ng, D. T. H.) On the width of an orientation of a tree. **89i:06001**
Aurenhammer, F. Improved algorithms for discs and balls using power diagrams. **89h:68142**
Avis, David (*with* Wenger, Rephael) Polyhedral line transversals in space. **89i:68120**
Awerbuch, B. (*with* Israeli, A.; Shiloach, Y.) Finding Euler circuits in logarithmic parallel time. **89f:68015**
Azar, Y. *see* **Alon, Noga**, **89k:68022**
Bach, Eric How to generate factored random numbers. **89e:11082**
Bachem, A. (*with* Euler, Reinhardt) Recent trends in combinatorial optimization. I. (Chinese) **89m:90129**

— (*with* Euler, Reinhardt) Recent trends in combinatorial optimization. II. (Chinese) **89m:90130**

Baĭramov, O. B. A problem of search for an optimal algorithm. (Russian) (*see* **89e:68058**)

Bang-Jensen, Jørgen (*with* Hell, Pavol; MacGillivray, G.) The complexity of colouring by semicomplete digraphs. **89e:05095**

Bárány, I. (*with* Füredi, Z.) Computing the volume is difficult. **89a:68203**

Bartha, Miklós A finite axiomatization of flowchart schemes. **89a:68145**

Bartholdi, John J., III *see* **Platzman, Loren K.; et al., 89b:60036**

Beck, István (*with* Krogdahl, Stein) A select and insert sorting algorithm. **89m:68014**

Benanav, Dan (*with* Kapur, Deepak; Narendran, Paliath) Complexity of matching problems. **89a:68131**

Bertoni, Alberto (*with* Goldwurm, M.; Sabadini, Nicoletta) Analysis of a class of algorithms for problems on trace languages. **89h:68080**

Bertossi, Alan A. On the domatic number of interval graphs. **89h:68054**

— Parallel circle-cover algorithms. (Not in MR)

Bertsekas, Dimitri P. The auction algorithm: a distributed relaxation method for the assignment problem. **89h:90156**

— (*with* Eckstein, Jonathan) Dual coordinate step methods for linear network flow problems. **89k:90164**

Bessonov, Yu. E. Determination of the intersections of geometric graphs by means of the operation of modular product. (Russian) **89g:05098**

Bhasker, Jayaram (*with* Sahni, Sartaj) Via assignment in single-row routing. **89j:68118**

Bilardi, Gianfranco (*with* Sarrafzadeh, Majid) Optimal VLSI circuits for the discrete Fourier transform. **89d:68037**

Blaha, Kenneth D. Finding a minimum base for permutation groups is NP-hard. **89i:20005**

Błażewicz, J. (*with* Kubiak, W.; Röck, H.; Szwarcfiter, J.) Minimizing mean flow-time with parallel processors and resource constraints. **89a:68023**

Blumer, A. (*with* Blumer, J.; Haussler, D.; McConnell, R.; Ehrenfeucht, Andrzej) Complete inverted files for efficient text retrieval and analysis. **89h:68028**

Blumer, J. *see* **Blumer, A.; et al., 89h:68028**

Bodlaender, H. L. ★ Distributed computing: structure and complexity. **89j:68015**

Bollobás, B. Sorting in rounds. **89k:05006**

Boom, H. J. Lazy variable-renumbering makes substitution cheap. **89m:68083**

(Börger, Egon) *see* **Trends in theoretical computer science, 89m:68002**

Böttcher, Axel (*with* Lawitzky, Gisbert; Simon, Hans-Ulrich) Worst-case analysis of heuristics for the local microcode optimization problem. **89g:90127**

Boult, T. (*with* Sikorski, K.) Complexity of computing topological degree of Lipschitz functions in n dimensions. **89i:65051**

Bovet, Daniel P. (*with* De Agostino, S.; Petreschi, R.) Parallelism and the feedback vertex set problem. **89k:68116**

Boyar, Joan F. (*with* Karloff, Howard J.) Coloring planar graphs in parallel. **89d:68067**

Boyd, Colin Probabilistic prime tests. **89k:11128**

Brandstädt, Andreas The computational complexity of feedback vertex set, Hamiltonian circuit, dominating set, Steiner tree, and bandwidth on special perfect graphs. (German and Russian summaries) **89b:68053**

Buss, Samuel R. ★ Bounded arithmetic. **89h:03104**

— Polynomial size proofs of the propositional pigeonhole principle. **89g:03056**

Calude, Cristian ★ Theories of computational complexity. **89g:03057**

Camerini, P. M. (*with* Galbiati, G.; Maffioli, Francesco) Algorithms for finding optimum trees: description, use and evaluation. **89e:90206**

Canny, John ★ The complexity of robot motion planning. **89m:68142**

Capocelli, R. M. (*with* Giancarlo, Raffaele) Efficient VLSI networks for converting an integer from binary system to residue number system and vice versa. **89i:68066**

Cerdeira, J. Orestes On the complexity of covering nodes by K node-disjoint cycles. **89g:05066**

Chan, Tony F. (*with* Tuminaro, Ray S.) Design and implementation of parallel multigrid algorithms. **89i:65144**

Chandrasekharan, N. (*with* Iyengar, S. Sitharama) NC algorithms for recognizing chordal graphs and k-trees. **89j:68119**

Chazelle, Bernard *see* **Aggarwal, Alok; et al., 89h:68141**

Chegireddy, Chandra R. (*with* Hamacher, Horst W.) Algorithms for finding K-best perfect matchings. **89j:90209**

Ch'ên, Chien Hui (*with* Kuo, M. T.; Sheu, J. P.) An optimal time algorithm for finding a maximum weight independent set in a tree. **89e:68100**

Chen, Guan-Ing (*with* Lai, Ten Hwang) Preemptive scheduling of independent jobs on a hypercube. **89h:68038**

Cheriyan, J. (*with* Maheshwari, Sachindra Nath) Finding nonseparating induced cycles and independent spanning trees in 3-connected graphs. **89k:05055**

Chin, Wei-Pang (*with* Ntafos, Simeon) Optimum watchman routes. **89f:68063**

Chirkov, A. Yu. (*with* Shevchenko, V. N.) Determination of the successive minima of an integer lattice and of the vector of the lattice closest to the given one. (Russian. English summary) **89a:90088**

Chlebus, Bogdan S. A parallel bucket sort. **89a:68031**

Choi, Hyeong-Ah (*with* Hakimi, S. Louis) Data transfers in networks. **89j:68016**

— (*with* Nakajima, Kazuo; Rim, Chong S.) Graph bipartization and via minimization. **89m:90132**

Chrobak, Marek (*with* Harter, Richard) A note on random sampling. **89m:68047**

Chung, F. R. K. (*with* Füredi, Z.; Graham, R. L.; Seymour, Paul D.) On induced subgraphs of the cube. **89i:05101**

— (*with* Hajela, D.; Seymour, Paul D.) Self-organizing sequential search and Hilbert's inequalities. **89i:68012**

Chung, Moon Jung (*with* Krishnamoorthy, M. S.) Algorithms of placing recovery points. **89f:68010**

Clarkson, Kenneth L. A randomized algorithm for closest-point queries. **89h:68143**

Clausen, Jens (*with* Krarup, Jakob) Arranging apples in an array. **89j:68120**

Colbourn, Charles J. ★ The combinatorics of network reliability. **89h:68001**

— *see also* **El-Mallah, Ehab S., 89d:68068**

Coleman, Thomas F. (*with* Pothen, Alex) The null space problem. II. Algorithms. **89i:65043**

Cook, Stephen A. (*with* Luby, Michael) A simple parallel algorithm for finding a satisfying truth assignment to a 2-CNF formula. **89h:68039**

Cornuejols, Gerard General factors of graphs. **89i:05211**

Cosmadakis, Stavros S. The word and generator problems for lattices. **89h:03069**

(Cover, Thomas M.) *see* **Open problems in communication and computation, 89c:94003**

Cozzens, Margaret B. (*with* Wu, Shu Shih Y.) On minimum critically n-edge-connected graphs. **89a:05099**

Czech, Z. J. Efficient implementation of detection of undefined variables. **89j:68020**

Das, Sajal K. (*with* Deo, Narsingh) Divide-and-conquer-based optimal parallel algorithms for some graph problems on EREW PRAM model. **89d:68017**

De Agostino, S. *see* **Bovet, Daniel P.; et al., 89k:68116**

Dearing, P. M. (*with* Shier, D. R.; Warner, Daniel D.) Maximal chordal subgraphs. **89i:05176**

Deĭneko, V. G. A recursive algorithm for the solution of the traveling salesman problem. (Russian) (*see* **89f:00011**)

Dekkers, Wil Reducibility of types in typed lambda calculus. Comment on: "On the existence of closed terms in the typed λ-calculus, I" [in *To H. B. Curry: essays on combinatory logic, lambda calculus and formalism*, 511–534, Academic Press, London, 1980; MR 82m:03014a] by R. Statman. **89h:03021**

Deneen, Linda (*with* Shute, Gary) Polygonizations of point sets in the plane. **89e:68113**

Deo, Narsingh *see* **Das, Sajal K., 89d:68017**

Didmanidze, I. Sh. A local algorithm for finding the diameter in an acyclic graph. (Russian. English and Georgian summaries) **89i:05126**

Djidjev, H. N. Simple parallel sorting algorithms. **89h:68017**

— New algorithms for planar graph separation. **89d:05160**

Downey, Peter J. (Probably) the minimum sum of squares. **89b:05071**

Du, Ding Zhu (*with* Miller, Z.) Matroids and subset interconnection design. **89i:05157**

Dupont, Peter *see* **Koebe, Manfred, 89m:68108**

Ebert, Jürgen Computing Eulerian trails. **89i:68100**

Eckstein, Jonathan *see* **Bertsekas, Dimitri P., 89k:90164**

Edahiro, Masato (*with* Tanaka, Katsuhiko; Hoshino, Takashi; Asano, Takao) A bucketing algorithm for the orthogonal segment intersection search problem and its practical efficiency. **89m:68132**

Edelsbrunner, Herbert ★ Algorithms in combinatorial geometry. **89a:68205**

— (*with* Preparata, F. P.) Minimum polygonal separation. **89f:68064**

— *see also* **Shen, Xiaojun, 89e:68115**

Ehrenfeucht, Andrzej *see* **Blumer, A.; et al., 89h:68028**

El-Mallah, Ehab S. (*with* Colbourn, Charles J.) The complexity of some edge deletion problems. **89d:68068**

Er, M. C. An $O(k^2 \log(n/k))$ algorithm for computing generalized order-k Fibonacci numbers with linear space. **89k:11129**

Erdmann, Michael (*with* Lozano-Pérez, Tomás) On multiple moving objects. **89h:68144**

Esposito, C. Graph graphics: theory and practice. **89m:68110**

Euler, Reinhardt *see* **Bachem, A., 89m:90129** *and* **89m:90130**

Faigle, Ulrich (*with* Turán, György) Sorting and recognition problems for ordered sets. **89e:68011**

Fellows, Michael R. (*with* Hickling, F.; Sysło, Maciej M.) A topological parameterization and hard graph problems (extended abstract). **89i:05102**

— (*with* Langston, Michael A.) Nonconstructive advances in polynomial-time complexity. **89c:68035**

— (*with* Friesen, Donald K.; Langston, Michael A.) On finding optimal and near-optimal lineal spanning trees. **89m:68040**

Fich, Faith E. (*with* Ragde, Prabhakar; Wigderson, Avi) Simulations among concurrent-write PRAMs. **89f:68070**

— (*with* Ragde, Prabhakar; Wigderson, Avi) Relations between concurrent-write models of parallel computation. **89i:68036**

Fischer, Thomas R. M. On the average complexity of searching for partial match queries in multidimensional search trees. **89h:68018**

Fischetti, Matteo (*with* Martello, Silvano) A hybrid algorithm for finding the kth smallest of n elements in $O(n)$ time. **89e:90166**

Foster, M. J. (*with* Greenberg, Ronald I.) Lower bounds on the area of finite-state machines. **89m:68069**

Françon, J. *see* **Arquès, D.; et al., 89h:68027**

Frederickson, Greg N. (*with* Janardan, Ravi) Space-efficient and fault-tolerant message routing in outerplanar networks. **89k:68118**

Fredman, Michael L. (*with* Spencer, Thomas H.) Refined complexity analysis for heap operations. **89b:68019**

Freiman, G. (*with* Lipkin, E.; Levitin, L.) A polynomial algorithm for constructing families of k-independent sets. **89g:05005**

Frenk, J. B. G. (*with* Galambos, G.) Hybrid next-fit algorithm for the two-dimensional rectangle bin-packing problem. (German summary) **89a:68084**

Friesen, Donald K. *see* **Fellows, Michael R.; et al., 89m:68040**

Frieze, A. M. On the exact solution of random travelling salesman problems with medium size integer coefficients. **89g:90104**

— On the random construction of heaps. **89c:68020**

— An algorithm for finding Hamilton cycles in random directed graphs. **89j:05064**

Füredi, Z. *see* **Bárány, I., 89a:68203** *and* **Chung, F. R. K.; et al., 89i:05101**

Furst, Merrick L. (*with* Gross, Jonathan L.; McGeoch, Lyle A.) Finding a maximum-genus graph imbedding. **89i:68049**

Gafni, Eli *see* **Marberg, John M., 89i:68015**

Galambos, G. *see* **Frenk, J. B. G., 89a:68084**

Galbiati, G. *see* **Camerini, P. M.; et al., 89e:90206**

Galil, Zvi (*with* Hoffmann, Christoph; Luks, E. M.; Schnorr, C.-P.; Weber, Andreas) An $O(n^3 \log n)$ deterministic and an $O(n^3)$ Las Vegas isomorphism test for trivalent graphs. **89c:68043**

— (*with* Pan, V.) Improved processor bounds for combinatorial problems in RNC. **89i:05215**

— (*with* Tardos, Éva) An $O(n^2(m + n \log n) \log n)$ min-cost flow algorithm. **89f:90048**

Gallier, Jean H. Fast algorithms for testing unsatisfiability of ground Horn clauses with equations. **89k:68131**

Gambosi, Giorgio (*with* Nešetřil, Jaroslav; Talamo, Maurizio) Efficient representation of taxonomies. **89a:06006**
Gardiner, Judith D. *see* **Laub, Alan J.**, (89g:93002)
Gashkov, S. B. Complexity of the approximate realization of functions, satisfying the Lipschitz condition, by schemes in continuous bases. **89h:65028**
Gasparyan, G. S. *see* **Markosyan, S. E., 89c:05062**
von zur Gathen, Joachim Irreducible polynomials over finite fields. **89c:11176**
Gazit, Hillel (*with* Miller, Gary L.) An improved parallel algorithm that computes the BFS numbering of a directed graph. **89j:68045**
Gburzynski, Pawel (*with* Jaromczyk, Jurek W.) Comparison of two algorithms solving a version of the "ham-sandwich" problem. **89m:68133**
Gečas, Kastytis On the structure of the interrelation predicate. (Russian. English and Lithuanian summaries) **89h:68002**
Geidmanis, Dainis On the capabilities of alternating and parallel nondeterministic finite multitape automata. (Russian) **89f:68016**
Gelbart, Rachel *see* **Abrahamson, Karl; et al., 89k:68038**
Giancarlo, Raffaele *see* **Capocelli, R. M., 89i:68066**
Gilbert, E. N. An optimal minimax algorithm. **89b:90257**
Gilbert, John R. Some nested dissection order is nearly optimal. **89b:68054**
— (*with* Peierls, Tim) Sparse partial pivoting in time proportional to arithmetic operations. **89f:65034**
Glover, N. *see* **Hsu, I.-S.; et al., 89b:11102**
Gokhale, Maya B. *see* **Myers, Thomas J.**, (Not in MR)
Goldberg, Mark K. (*with* Miller, Z.) A parallel algorithm for bisection width in trees. **89k:68119**
Goldwurm, M. *see* **Bertoni, Alberto; et al., 89h:68080**
Golovanov, P. N. (*with* Solodovnikov, V. I.) Rapid parallel calculation of degrees in a quotient ring of polynomials over a finite field. (Russian) **89h:11080**
(Gopinath, B.) *see* **Open problems in communication and computation, 89c:94003**
Goyal, S. K. (*with* Sriskandarajah, C.) No-wait shop scheduling: computational complexity and approximate algorithms. **89j:90144**
Graham, R. L. *see* **Chung, F. R. K.; et al., 89i:05101**
Greenberg, Ronald I. *see* **Foster, M. J., 89m:68069**
Gries, David *see* **Xue, Jin Yun**, (Not in MR)
Grigor′ev, D. Yu. Computational complexity in polynomial algebra. **89e:68063**
— *see also* **Vorob′ev, N. N., Jr., 89m:68073**
Grinchuk, M. I. Complexity of the realization of cyclic Boolean matrices by gate circuits. **89k:94102**
Gross, Jonathan L. *see* **Furst, Merrick L.; et al., 89i:68049**
Grossman, Jerrold W. (*with* Zeitman, R. Suzanne) An inherently iterative computation of Ackermann's function. **89i:03078**
Grötschel, M. (*with* Lovász, L.; Schrijver, Alexander) ★ Geometric algorithms and combinatorial optimization. **89m:90135**
Guibas, Leonidas J. *see* **Hershberger, John, 89e:68114** *and* **Aggarwal, Alok; et al., 89h:68141**
Guichet, M. T. *see* **Arquès, D.; et al., 89h:68027**
Guichet, P. *see* **Arquès, D.; et al., 89h:68027**
Gusfield, Dan *see* **Martel, Charles U., 89k:68026**
Gyárfás, A. (*with* Lehel, J.) On-line and first fit colorings of graphs. **89c:05037**
Haddad, Ramsey W. (*with* Schäffer, Alejandro A.) Recognizing Bellman-Ford-orderable graphs. **89m:68111**
Hajek, Bruce *see* **Sasaki, Galen, 89e:90170**
Hajela, D. *see* **Chung, F. R. K.; et al., 89i:68012**
Hakimi, S. Louis *see* **Choi, Hyeong-Ah, 89j:68016**
Hamacher, Horst W. *see* **Chegireddy, Chandra R., 89j:90209**
Hamada, Hiroshi *see* **Morikawa, Yoshitaka; et al.**, (Not in MR)
Hansen, Pierre Minimum sum of diameters clustering. **89a:68183**
— *see also* **Roucairol, Catherine, 89c:05047**
Harter, Richard *see* **Chrobak, Marek, 89m:68047**
Haussler, D. *see* **Blumer, A.; et al., 89h:68028**
He, Xin (*with* Yesha, Yaacov) A nearly optimal parallel algorithm for constructing depth first spanning trees in planar graphs. **89e:05071**
Hell, Pavol *see* **Bang-Jensen, Jørgen; et al., 89e:05095**
Helmbold, David (*with* Mayr, Ernst) Fast scheduling algorithms on parallel computers. **89h:68042**
Hershberger, John (*with* Guibas, Leonidas J.) An $O(n^2)$ shortest path algorithm for a nonrotating convex body. **89e:68114**
Hickling, F. *see* **Fellows, Michael R.; et al., 89i:05102**
Higham, Lisa *see* **Abrahamson, Karl; et al., 89k:68038**
Hinrichs, Klaus (*with* Nievergelt, Jürg; Schorn, Peter) Plane-sweep solves the closest pair problem elegantly. **89a:68206**
Ho, Ching-Tien *see* **Johnsson, S. Lennart, 89h:68045**
Hochbaum, Dorit S. (*with* Maass, Wolfgang) Fast approximation algorithms for a nonconvex covering problem. **89f:90097**
— (*with* Shmoys, David B.) A polynomial approximation scheme for scheduling on uniform processors: using the dual approximation approach. **89f:68053**
Hoffmann, Christoph *see* **Galil, Zvi; et al., 89c:68043**
Hoffmann, Frank (*with* Kriegel, Klaus) Embedding rectilinear graphs in linear time. **89k:68056**
Hofri, Micha (*with* Konheim, Alan G.) Padded lists revisited. **89m:68016**
Hoshino, Takashi *see* **Edahiro, Masato; et al., 89m:68132**
Hsu, I.-S. (*with* Truong, T. K.; Reed, I. S.; Glover, N.) A VLSI architecture for performing finite field arithmetic with reduced table lookup. **89b:11102**
Hsu, Wen-Lian The coloring and maximum independent set problems on planar perfect graphs. **89m:68049**
Hu, Te Chiang (*with* Wachs, Michelle L.) Binary search on a tape. **89a:68034**
Hu, Wen An algorithm for recursive generation of rooted trees. (Chinese. English summary) **89i:68101**
Huang, Ch'i *see* **Shyu, Kuo Kai, 89e:93053**
Huang, Wen Qi (*with* Yu, Xiang Dong) A DNF without regular shortest consensus path. **89i:68042**
Hutchinson, Joan P. *see* **Albertson, Michael O., 89i:05001**
Ibaraki, Toshihide (*with* Katoh, Naoki) ★ Resource allocation problems. **89e:90179**
Ibarra, Oscar H. (*with* Palis, Michael A.) On efficient simulations of systolic arrays by random-access machines. **89c:68026**
(Ikramov, Kh. D.) *see* **Pissanetzky, Sergio, 89h:65008**
Ishizuka, Akio *see* **Kajitani, Yoji; et al., 89h:05024**
Israeli, A. *see* **Awerbuch, B.; et al., 89f:68015**
Italiano, Giuseppe F. Finding paths and deleting edges in directed acyclic graphs. **89j:68021**
Itoh, Toshiya (*with* Tsujii, Shigeo) A fast algorithm for computing multiplicative inverses in GF(2^m) using normal bases. **89j:11121**
Ivanchev, D. T. Determination of the k most essential nodes in a network with parametric node and arc transmitting capacities. (Bulgarian. English and Russian summaries) **89g:90095**
Iyengar, S. Sitharama *see* **Chandrasekharan, N., 89j:68119**
Iyer, Ananth V. (*with* Ratliff, H. Donald; Vijayan, G.) Optimal node ranking of trees. **89h:68119**
Ja'Ja', Joseph (*with* Owens, Robert Michael) Optimal algorithms for mesh-connected parallel processors with serial memories. **89h:68043**
Janardan, Ravi *see* **Frederickson, Greg N., 89k:68118**
Jaromczyk, Jurek W. *see* **Gburzynski, Pawel, 89m:68133**
Johnsson, S. Lennart (*with* Ho, Ching-Tien) Algorithms for matrix transposition on Boolean N-cube configured ensemble architectures. **89h:68045**
Kabat, Waldo C. *see* **Parrello, Bruce D.; et al., 89j:68144**
Kacewicz, B. Z. (*with* Wasilkowski, G. W.) How powerful is continuous nonlinear information for linear problems? **89a:65099**
Kadane, Joseph B. Parallel and sequential computation: a statistician's view. **89b:65331**
Kahn, J. (*with* Lagarias, J. C.; Witsenhausen, H. S.) Single-suit two-person card play. II. Dominance. **89j:90279**
Kajitani, Yoji (*with* Ishizuka, Akio; Ueno, Shuichi) Characterization of partial 3-trees in terms of three structures. **89h:05024**
Kak, Subhash Multilayered array computing. (Not in MR)
Kamburowski, Jerzy On the computational complexity of the shortest route and maximum flow problems in stochastic networks. **89i:90034**
Kannan, Ravindran (*with* Lovász, L.) Covering minima and lattice point free convex bodies. **89b:11055**
— Minkowski's convex body theorem and integer programming. **89c:90078**
— (*with* Lenstra, A. K.; Lovász, L.) Polynomial factorization and nonrandomness of bits of algebraic and some transcendental numbers. **89j:68061**
Kantor, W. M. (*with* Taylor, D. E.) Polynomial-time versions of Sylow's theorem. **89h:20004**
(Kaporin, I. E.) *see* **Pissanetzky, Sergio, 89h:65008**
Kapur, Deepak *see* **Benanav, Dan; et al., 89a:68131**
Karchmer, Mauricio (*with* Naor, Joseph) A fast parallel algorithm to color a graph with Δ colors. **89i:05118**
Karloff, Howard J. *see* **Boyar, Joan F., 89d:68067**
Karlsson, Rolf G. Greedy matching on a grid. **89a:68026**
Karp, Richard M. (*with* Upfal, Eli; Wigderson, Avi) The complexity of parallel search. **89i:68037**
— *see also* **Adler, Ilan; et al., 89m:90094**
Karpiński, M. *see* **Lingas, Andrzej, 89k:68120**
Katoh, Naoki *see* **Ibaraki, Toshihide, 89e:90179**
Kessler, Hans W. *see* **Pflug, Georg Ch., 89e:68012**
Kindervater, G. A. P. (*with* Lenstra, J. K.) Parallel computing in combinatorial optimization. **89i:90063**
Kinnersley, Nancy G. (*with* Langston, Michael A.) Online variable-sized bin packing. **89j:90083**
Kirkpatrick, David *see* **Abrahamson, Karl; et al., 89k:68038**
Klein, Rolf (*with* Wood, Derick) The node visit cost of brother trees. **89j:68023**
Knuth, Donald E. (*with* Papadimitriou, Christos H.; Tsitsiklis, John N.) A note on strategy elimination in bimatrix games. **89k:90187**
Köbler, Johannes (*with* Schöning, Uwe; Wagner, Klaus Werner) The difference and truth-table hierarchies for NP. (French summary) **89g:03058**
Koebe, Manfred (*with* Dupont, Peter) Single-layer channel routing. (German and Russian summaries) **89m:68108**
Kogan, A. Yu. Lower bounds for the complexity of the disjunctive normal forms of Boolean functions with a small number of zeros. (Russian) **89g:94048**
Konheim, Alan G. *see* **Hofri, Micha, 89m:68016**
Körner, J. (*with* Simonyi, Gábor) Separating partition systems and locally different sequences. **89i:05091**
Korotkin, A. A. The accuracy of a "greedy" algorithm in a problem of the choice of an optimal acyclic subgraph. (Russian) **89h:05035**
Kramosil, Ivan Extremum-searching hierarchical parallel probabilistic algorithms. **89h:90189**
Krarup, Jakob *see* **Clausen, Jens, 89j:68120**
Kreher, Donald L. *see* **Radziszowski, Stanisław P., 89i:11142**
Kreĭnovich, V. Ya. The semantics of S. Yu. Maslov's iterative method. (Russian) **89i:03019**
Kriegel, Klaus *see* **Hoffmann, Frank, 89k:68056**
Krishnamoorthy, M. S. *see* **Chung, Moon Jung, 89f:68010**
Křivánek, Mirko A note on the computational complexity of computing the edge rotation distance between graphs. (Russian and Czech summaries) **89h:68120**
Krogdahl, Stein *see* **Beck, István, 89m:68014**
Kubale, Marek Interval edge-coloring of caterpillars with hairs of arbitrary length. **89f:05080**
Kubiak, W. *see* **Błażewicz, J.; et al., 89a:68023**
Kuh, Ernest S. *see* **Xiong, Xiao-Ming, 89m:90066**
Kumar, S. Kiran (*with* Pandu Rangan, C.) A linear space algorithm for the LCS problem. **89c:68044**
Kuo, M. T. *see* **Ch'ên, Chien Hui; et al., 89e:68100**
Kuo, Yü Shên *see* **Wang, D. W., 89i:68121**

Kurshan, R. P. Complementing deterministic Büchi automata in polynomial time. **89g:68052**
Ladin, Rivka (*with* Liskov, Barbara; Shrira, Liuba) A technique for constructing highly available services. **89m:68006**
Lagarias, J. C. *see* **Kahn, J.; et al., 89j:90279**
Lai, Ten Hwang *see* **Chen, Guan-Ing, 89h:68038**
Landau, Susan Some remarks on computing the square parts of integers. **89k:11003**
Langston, Michael A. *see* **Fellows, Michael R., 89c:68035; Kinnersley, Nancy G., 89j:90083** *and* **Fellows, Michael R.; et al., 89m:68040**
Laub, Alan J. (*with* Gardiner, Judith D.) Hypercube implementation of some parallel algorithms in control. (*see* **89g:93002**)
Lawitzky, Gisbert *see* **Böttcher, Axel; et al., 89g:90127**
Lehel, J. *see* **Gyárfás, A., 89c:05037**
Leiserson, Charles E. (*with* Maggs, Bruce M.) Communication-efficient parallel algorithms for distributed random-access machines. **89a:68090**
Lengauer, Thomas (*with* Wanke, Egon) Efficient solution of connectivity problems on hierarchically defined graphs. **89m:05077**
— (*with* Müller, Rolf^3) Linear arrangement problems on recursively partitioned graphs. (German summary) **89g:05046**
Lenhart, W. (*with* Pollack, Richard; Sack, J.; Seidel, R.; Sharir, M.; Suri, Subhash; Toussaint, Godfried T.; Whitesides, S.; Yap, Chee-Keng) Computing the link center of a simple polygon. **89k:68145**
Lenstra, A. K. *see* **Kannan, Ravindran; et al., 89j:68061**
Lenstra, J. K. *see* **Kindervater, G. A. P., 89i:90063**
Levcopoulos, Christos (*with* Overmars, Mark H.) A balanced search tree with $O(1)$ worst-case update time. **89k:68025**
Levitin, L. *see* **Freiman, G.; et al., 89g:05005**
Levitz, Hilbert (*with* Nichols, Warren) Eine rekursive universelle Funktion für die primitiv-rekursiven Funktionen. [A recursive universal function for the primitive recursive functions] **89d:03038**
Levy, Hanoch (*with* Low, David W.) A contraction algorithm for finding small cycle cutsets. **89i:05165**
Li, Hui Optimal algorithms for determining the movability of convex polygons. **89k:68146**
Li, Ke *see* **Zhu, Hong^1, 89j:68032**
Li, Lian (*with* Zhang, Shu Hua) Polynomial algorithms for some problems on cyclic automata. **89m:68098**
Lingas, Andrzej (*with* Karpiński, M.) Subtree isomorphism is NC reducible to bipartite perfect matching. **89k:68120**
Linial, Nathan (*with* Lovász, L.; Wigderson, Avi) Rubber bands, convex embeddings and graph connectivity. **89i:05187**
Lipkin, E. *see* **Freiman, G.; et al., 89g:05005**
Liskov, Barbara *see* **Ladin, Rivka; et al., 89m:68006**
Louchard, G. Exact and asymptotic distributions in digital and binary search trees. (French summary) **89h:68031**
Lovász, L. *see* **Kannan, Ravindran, 89b:11055; Linial, Nathan; et al., 89i:05187; Kannan, Ravindran; et al., 89j:68061** *and* **Grötschel, M.; et al., 89m:90135**
Low, David W. *see* **Levy, Hanoch, 89i:05165**
Lozano-Pérez, Tomás *see* **Erdmann, Michael, 89h:68144**
Luby, Michael (*with* Rackoff, Charles) How to construct pseudorandom permutations from pseudorandom functions. **89i:68025**
— *see also* **Cook, Stephen A., 89h:68039**
Luks, E. M. *see* **Galil, Zvi; et al., 89c:68043**
Lumelsky, Vladimir J. (*with* Stepanov, Alexander A.) Path-planning strategies for a point mobile automaton moving amidst unknown obstacles of arbitrary shape. **89h:68146**
Lynch, Nancy *see* **Welch, Jennifer Lundelius, 89f:68009**
Maass, Wolfgang *see* **Hochbaum, Dorit S., 89f:90097**
MacGillivray, G. *see* **Bang-Jensen, Jørgen; et al., 89e:05095**
Maffioli, Francesco *see* **Camerini, P. M.; et al., 89e:90206**
Maggs, Bruce M. *see* **Leiserson, Charles E., 89a:68090**
Maheshwari, Sachindra Nath *see* **Cheriyan, J., 89k:05055**
Manacher, Glenn K. *see* **Atallah, Mikhail J.; et al., 89j:05042**
Marberg, John M. (*with* Gafni, Eli) Sorting in constant number of row and column phases on a mesh. **89i:68015**
Marchenkov, S. S. The complexity of the search for a deterministic subautomaton. **89m:68042**
Markosyan, S. E. (*with* Gasparyan, G. S.) ω-perfect graphs. (Russian. English and Armenian summaries) **89c:05062**
Martel, Charles U. (*with* Gusfield, Dan) A fast parallel quicksort algorithm. **89k:68026**
Martello, Silvano *see* **Fischetti, Matteo, 89e:90166**
Masuda, Sumio (*with* Nakajima, Kazuo) An optimal algorithm for finding a maximum independent set of a circular-arc graph. **89e:68101**
Mayr, Ernst *see* **Helmbold, David, 89h:68042** *and* **Anderson, Richard John, 89j:68057**
McCauley, J. L. Chaotic dynamical systems as automata. **89c:58081**
McConnell, R. *see* **Blumer, A.; et al., 89h:68028**
McGeoch, Lyle A. *see* **Furst, Merrick L.; et al., 89i:68049**
Melichev, I. V. Anomalous properties of S. Yu. Maslov's iterative method. (Russian) **89i:03021**
Mignotte, Maurice (*with* Schnorr, C.-P.) Calcul déterministe des racines d'un polynôme dans un corps fini. (English summary) [Deterministic computation of the roots of polynomials over finite fields] **89i:11134**
Miller, Gary L. *see* **Gazit, Hillel, 89j:68045**
Miller, Russ (*with* Stout, Quentin F.) Efficient parallel convex hull algorithms. **89m:68136**
Miller, Z. *see* **Du, Ding Zhu, 89i:05157** *and* **Goldberg, Mark K., 89k:68119**
(Minker, Jack) *see* **Foundations of deductive databases and logic programming, 89m:68125**
Mishra, Bhubaneswar (*with* Schwartz, Jacob T.; Sharir, M.) On the existence and synthesis of multifinger positive grips. **89h:68157**
Mittal, Hari Ballabh A fast backtrack algorithm for graph isomorphism. **89j:68062**
Miyano, Satoru Indexing alternating finite automata and binary tree-like circuits. **89g:68018**
Morikawa, Yoshitaka (*with* Hamada, Hiroshi; Yamane, Nobumoto) A fast algorithm for the cosine transform based on successive order reduction of the Chebyshev polynomial. (Not in MR)
Morrison, John A. (*with* Shepp, L. A.; Van Wyk, Christopher J.) A queueing analysis of hashing with lazy deletion. **89a:60226**
Muchnik, An. A. Lower bounds for frequencies in computable sequences, and relativized a priori probability. (Russian) **89j:68075**
Mullender, Sape J. (*with* Vitányi, Paul M. B.) Distributed match-making. **89k:68009**
Müller, Rolf^3 *see* **Lengauer, Thomas, 89g:05046**
Myers, Thomas J. (*with* Gokhale, Maya B.) Parallel scheduling of recursively defined arrays. (Not in MR)
Nakajima, Kazuo *see* **Masuda, Sumio, 89e:68101** *and* **Choi, Hyeong-Ah; et al., 89m:90132**
Naor, Joseph *see* **Karchmer, Mauricio, 89i:05118**
Narendran, Paliath *see* **Benanav, Dan; et al., 89a:68131**
Nepomnyashchiĭ, V. A. (*with* Shilov, N. V.) Nondeterministic program schemata and their relation to dynamic logic. **89m:68091**
Nešetřil, Jaroslav *see* **Gambosi, Giorgio; et al., 89a:06006**
Ng, D. T. H. *see* **Atkinson, Michael D., 89i:06001**
Nguyen Quang A Elementary proof of Rueppel's linear complexity conjecture and a construction of sequences with high linear complexity and good correlation properties. (Russian summary) **89m:94015**
Nichols, Warren *see* **Levitz, Hilbert, 89d:03038**
Nievergelt, Jürg *see* **Hinrichs, Klaus; et al., 89a:68206**
Noguchi, Shoichi *see* **Yamamoto, Hiroaki, 89h:68036**
Ntafos, Simeon *see* **Chin, Wei-Pang, 89f:68063**
Odlyzko, A. M. (*with* Schönhage, Arnold) Fast algorithms for multiple evaluations of the Riemann zeta function. **89j:11083**
Ó'Dúnlaing, Colm Motion planning with inertial constraints. **89f:68066**
— A tight lower bound for the complexity of path-planning for a disc. **89k:68148**
— *see also* **Aggarwal, Alok; et al., 89h:68141**
Olariu, Stephan Paw-free graphs. **89h:05033**
O'Rourke, Joseph ★ Art gallery theorems and algorithms. **89f:68067**
Ottmann, Thomas (*with* Soisalon-Soininen, Eljas; Wood, Derick) Partitioning and separating sets of orthogonal polygons. **89h:68148**
Otto, Friedrich Finite canonical rewriting systems for congruences generated by concurrency relations. **89e:68074**
Overmars, Mark H. *see* **Levcopoulos, Christos, 89k:68025**
Owens, Robert Michael *see* **Ja'Ja', Joseph, 89h:68043**
Palis, Michael A. *see* **Ibarra, Oscar H., 89c:68026**
Pan, V. *see* **Galil, Zvi, 89i:05215**
Pandu Rangan, C. *see* **Kumar, S. Kiran, 89c:68044** *and* **Ramalingam, G., 89i:68102**
Papadimitriou, Christos H. (*with* Tsitsiklis, John N.) The complexity of Markov decision processes. **89c:90108**
— (*with* Ullman, Jeffrey D.) A communication-time tradeoff. **89a:68078**
— *see also* **Knuth, Donald E.; et al., 89k:90187**
Parberry, Ian ★ Parallel complexity theory. **89b:68002**
Parrello, Bruce D. (*with* Kabat, Waldo C.; Wos, Larry) Job-shop scheduling using automated reasoning: a case study of the car-sequencing problem. **89j:68144**
Paz, A. (*with* Schnorr, C.-P.) Approximating integer lattices by lattices with cyclic factor groups. **89e:06008**
Pearl, Judea (*with* Tarsi, Michael) Structuring causal trees. **89g:68056**
Peierls, Tim *see* **Gilbert, John R., 89f:65034**
Peng, Yun (*with* Reggia, James A.) A comfort measure for diagnostic problem solving. **89m:68118**
Peters, Joseph G. Lower bounds on time-accuracy trade-offs for the 0-1 knapsack problem. **89h:90155**
Peterson, Carsten (*with* Anderson, James R.) Neural networks and NP-complete optimization problems; a performance study on the graph bisection problem. **89d:90176**
Petreschi, R. *see* **Bovet, Daniel P.; et al., 89k:68116**
Pflug, Georg Ch. (*with* Kessler, Hans W.) Linear probing with a nonuniform address distribution. **89e:68012**
Phillips, A. T. (*with* Rosen, J. B.) A parallel algorithm for solving the linear complementarity problem. **89j:90252**
Pippenger, Nicholas Sorting and selecting in rounds. **89h:68019**
Pissanetzky, Sergio ★ Технология разреженных матриц. (Russian) [Sparse matrix technology] **89h:65008**
Pittel, B. (*with* Yu, Jenn-Hwa) On search times for early-insertion coalesced hashing. **89h:68020**
Platzman, Loren K. (*with* Ammons, Jane C.; Bartholdi, John J., III) A simple and efficient algorithm to compute tail probabilities from transforms. **89b:60036**
Pollack, Richard (*with* Sharir, M.; Sifrony, S.) Separating two simple polygons by a sequence of translations. **89a:68210**
— *see also* **Lenhart, W.; et al., 89k:68145**
Pothen, Alex *see* **Coleman, Thomas F., 89i:65043**
Prasanna Kumar, V. K. (*with* Sastry, Sarma) Efficient signal processing on a VLSI array. **89f:68032**
Preparata, F. P. *see* **Edelsbrunner, Herbert, 89f:68064**
Provan, J. Scott Shortest enclosing walks and cycles in embedded graphs. **89k:68149**
Rackoff, Charles *see* **Luby, Michael, 89i:68025**
Radziszowski, Stanisław P. (*with* Kreher, Donald L.) Solving subset sum problems with the L^3 algorithm. **89i:11142**
Ragde, Prabhakar *see* **Fich, Faith E.; et al., 89f:68070** *and* **89i:68036**
Ramakrishnan, I. V. *see* **Varman, P. J., 89m:68071** *and* **Verma, Rakesh M., (89c:68004)**
Ramalingam, G. (*with* Pandu Rangan, C.) Total domination in interval graphs revisited. **89i:68102**
Ratliff, H. Donald *see* **Iyer, Ananth V.; et al., 89h:68119**
Reed, I. S. *see* **Hsu, I.-S.; et al., 89b:11102**
Rege, Ashutosh (*with* Agogino, Alice M.) Topological framework for representing and solving probabilistic inference problems in expert systems. **89k:68138**
Reggia, James A. *see* **Peng, Yun, 89m:68118**

Reichling, Matthias On the detection of a common intersection of k convex objects in the plane. **89j:68150**
Reif, John H. A topological approach to dynamic graph connectivity. **89a:68178**
— (*with* Smolka, Scott A.) The complexity of reachability in distributed communicating processes. **89j:68050**
Reischer, Corina *see* **Simovici, Dan A., 89h:68025**
Rhee, WanSoo T. (*with* Talagrand, Michel) A sharp deviation inequality for the stochastic traveling salesman problem. **89m:60065**
Richards, Dana S. (*with* Vaidya, Pravin) On the distribution of comparisons in sorting algorithms. **89m:68018**
Rim, Chong S. *see* **Choi, Hyeong-Ah; et al., 89m:90132**
Röck, H. *see* **Błażewicz, J.; et al., 89a:68023**
Rödl, Vojtěch (*with* Tovey, C.) Multiple optima in local search. **89a:90095**
Romeo, Luciano *see* **Andreatta, Giovanni, 89e:90093**
Rosen, J. B. *see* **Phillips, A. T., 89j:90252**
Roucairol, Catherine (*with* Hansen, Pierre) Problème de la bipartition minimale d'un graphe. (English summary) [The minimal bipartition problem for a graph] **89c:05047**
Ruskey, Frank Adjacent interchange generation of combinations. **89d:68066**
Sabadini, Nicoletta *see* **Bertoni, Alberto; et al., 89h:68080**
Sack, J. *see* **Lenhart, W.; et al., 89k:68145**
Sahni, Sartaj *see* **Bhasker, Jayaram, 89j:68118**
Sakata, Shojiro Finding a minimal set of linear recurring relations capable of generating a given finite two-dimensional array. **89d:94045**
Salowe, Jeffrey S. L-infinity interdistance selection by parametric search. **89m:68137**
Sarrafzadeh, Majid *see* **Bilardi, Gianfranco, 89d:68037**
Sasaki, Galen (*with* Hajek, Bruce) The time complexity of maximum matching by simulated annealing. **89e:90170**
Sastry, Sarma *see* **Prasanna Kumar, V. K., 89f:68032**
Savage, Carla Recognizing majority on a one-way mesh. **89i:68068**
Sazonov, V. Yu. A type-free calculus of Σ-expressions and Kripke-Platek set theory with classes. (Russian) **89j:03037**
Schäffer, Alejandro A. *see* **Haddad, Ramsey W., 89m:68111**
Scherson, Isaac D. (*with* Sen, Sandeep) Parallel sorting in two-dimensional VLSI models of computation. **89m:68070**
Schevon, Catherine A. (*with* Vitter, Jeffrey Scott) A parallel algorithm for recognizing unordered depth-first search. **89j:68052**
Schnorr, C.-P. A hierarchy of polynomial time lattice basis reduction algorithms. **89h:11085**
— A more efficient algorithm for lattice basis reduction. **89h:11086**
— *see also* **Galil, Zvi; et al., 89c:68043; Paz, A., 89e:06008** *and* **Mignotte, Maurice, 89i:11134**
Schönhage, Arnold Probabilistic computation of integer polynomial GCDs. **89h:11084**
— A nonlinear lower bound for random-access machines under logarithmic cost. **89h:68048**
— *see also* **Odlyzko, A. M., 89j:11083**
Schöning, Uwe *see* **Köbler, Johannes; et al., 89g:03058**
Schorn, Peter *see* **Hinrichs, Klaus; et al., 89a:68206**
Schrijver, Alexander *see* **Grötschel, M.; et al., 89m:90135**
Schwartz, Jacob T. *see* **Mishra, Bhubaneswar; et al., 89h:68157** *and* **Algorithmic and geometric aspects of robotics, 89m:68138**
Schwiegelshohn, Uwe (*with* Thiele, Lothar) A systolic array for the assignment problem. **89k:90117**
Sedgewick, Robert *see* **Weiss, Mark Allen, 89m:68019**
Seidel, R. *see* **Lenhart, W.; et al., 89k:68145**
Sen, Sandeep *see* **Scherson, Isaac D., 89m:68070**
Seymour, Paul D. *see* **Chung, F. R. K.; et al., 89i:05101** *and* **89i:68012**
Shamir, Ron *see* **Adler, Ilan; et al., 89m:90094**
Shannon, Gregory E. A linear-processor algorithm for depth-first search in planar graphs. **89i:68052**
(Shao, Jia Yu) *see* **Bachem, A., 89m:90129**
Sharir, M. *see* **Pollack, Richard; et al., 89a:68210; Mishra, Bhubaneswar; et al., 89h:68157** *and* **Lenhart, W.; et al., 89k:68145**
Shen, Xiaojun (*with* Edelsbrunner, Herbert) A tight lower bound on the size of visibility graphs. **89e:68115**
Shepp, L. A. *see* **Morrison, John A.; et al., 89a:60226**
Sheu, J. P. *see* **Ch'ên, Chien Hui; et al., 89e:68100**
Shevchenko, V. N. *see* **Chirkov, A. Yu., 89a:90088**
Shier, D. R. *see* **Dearing, P. M.; et al., 89i:05176**
Shiloach, Y. *see* **Awerbuch, B.; et al., 89f:68015**
Shilov, N. V. *see* **Nepomnyashchiĭ, V. A., 89m:68091**
Shmoys, David B. *see* **Hochbaum, Dorit S., 89f:68053**
Shrira, Liuba *see* **Ladin, Rivka; et al., 89m:68006**
Shute, Gary *see* **Deneen, Linda, 89e:68113**
Shyu, Kuo Kai (*with* Huang, Ch'i) Optimal control of linear time-varying discrete systems via discrete Legendre orthogonal polynomials. **89e:93053**
Siegrist, K. T. *see* **Amin, A. T.; et al., 89h:68118**
Sifrony, S. *see* **Pollack, Richard; et al., 89a:68210**
Sikorski, K. *see* **Boult, T., 89i:65051**
Simon, Hans-Ulrich *see* **Böttcher, Axel; et al., 89g:90127**
Simonson, Shai A variation on the min cut linear arrangement problem. **89g:05065**
Simonyi, Gábor *see* **Körner, J., 89i:05091**
Simovici, Dan A. (*with* Reischer, Corina) Collections of sets and intractable problems in relational databases. **89h:68025**
Slater, P. J. *see* **Amin, A. T.; et al., 89h:68118**
Smolka, Scott A. *see* **Reif, John H., 89j:68050**
Soisalon-Soininen, Eljas *see* **Ottmann, Thomas; et al., 89h:68148**
Solodovnikov, V. I. *see* **Golovanov, P. N., 89h:11080**
Sontag, Eduardo D. Controllability is harder to decide than accessibility. **89j:93008**
Spencer, Thomas H. *see* **Fredman, Michael L., 89b:68019**
Spirakis, Paul The parallel complexity of deadlock detection. **89b:68018**
Spreen, Dieter Computable one-to-one enumerations of effective domains. **89f:68045**
Sriskandarajah, C. *see* **Goyal, S. K., 89j:90144**
(Statman, Richard) *see* **Dekkers, Wil, 89h:03021**
Stepanov, Alexander A. *see* **Lumelsky, Vladimir J., 89h:68146**
Stern, Jacques Equivalence relations on lattices and the complexity of the theory of permutations which commute. **89c:03016**
Stout, Quentin F. *see* **Miller, Russ, 89m:68136**
Strassen, V. The asymptotic spectrum of tensors. **89c:11056**
Suri, Subhash *see* **Lenhart, W.; et al., 89k:68145**
Sysło, Maciej M. *see* **Fellows, Michael R.; et al., 89i:05102**
Szpankowski, Wojciech Solution of a linear recurrence equation arising in the analysis of some algorithms. **89a:39004**
Szwarcfiter, J. *see* **Błażewicz, J.; et al., 89a:68023**
Talagrand, Michel *see* **Rhee, WanSoo T., 89m:60065**
Talamo, Maurizio *see* **Gambosi, Giorgio; et al., 89a:06006**
Tanaka, Katsuhiko *see* **Edahiro, Masato; et al., 89m:68132**
Tang, Shou Wen Some algorithms in graphics and image processing. **89k:68150**
Tardos, Éva *see* **Galil, Zvi, 89f:90048**
Tardos, Gábor Polynomial bound for a chip firing game on graphs. **89i:68103**
Tarsi, Michael *see* **Pearl, Judea, 89g:68056**
Taylor, D. E. *see* **Kantor, W. M., 89h:20004**
Thiele, Lothar *see* **Schwiegelshohn, Uwe, 89k:90117**
Tiwari, Prasoon Lower bounds on communication complexity in distributed computer networks. **89a:68013**
Topkis, Donald M. A k shortest path algorithm for adaptive routing in communications networks. **89f:90057**
Toussaint, Godfried T. *see* **Lenhart, W.; et al., 89k:68145**
Tovey, C. *see* **Rödl, Vojtěch, 89a:90095**
Triesch, E. *see* **Aigner, M., 89h:05030**
Truong, T. K. *see* **Hsu, I.-S.; et al., 89b:11102**
Tsitsiklis, John N. *see* **Papadimitriou, Christos H., 89c:90108** *and* **Knuth, Donald E.; et al., 89k:90187**
Tsujii, Shigeo *see* **Itoh, Toshiya, 89j:11121**
Tuminaro, Ray S. *see* **Chan, Tony F., 89i:65144**
Turán, György *see* **Faigle, Ulrich, 89e:68011**
Ueno, Shuichi *see* **Kajitani, Yoji; et al., 89h:05024**
Ugol′nikov, A. B. The complexity of realization of Boolean functions by schemes in a basis of median and implication. (Russian) **89a:94025**
— On the depth and complexity of formulas that realize functions in closed classes. **89g:03035**
Ullman, Jeffrey D. (*with* Van Gelder, Allen) Efficient tests for top-down termination of logical rules. **89k:68102**
— *see also* **Papadimitriou, Christos H., 89a:68078**
Upfal, Eli *see* **Karp, Richard M.; et al., 89i:68037**
Urrutia, Jorge *see* **Atallah, Mikhail J.; et al., 89j:05042**
Vaidya, Pravin Minimum spanning trees in k-dimensional space. **89i:68104**
— *see also* **Richards, Dana S., 89m:68018**
Van Gelder, Allen PRAM processor allocation: a hidden bottleneck in sublogarithmic algorithms. **89m:68037**
— *see also* **Ullman, Jeffrey D., 89k:68102**
Van Wyk, Christopher J. *see* **Morrison, John A.; et al., 89a:60226**
Varman, P. J. (*with* Ramakrishnan, I. V.) Optimal matrix multiplication on fault-tolerant VLSI arrays. **89m:68071**
Venkatesan, Shankar M. Approximation algorithms for weighted matching. **89k:68124**
Verma, Rakesh M. (*with* Ramakrishnan, I. V.) Optimal time bounds for parallel term matching. (*see* **89c:68004**)
Vijayan, G. *see* **Iyer, Ananth V.; et al., 89h:68119**
Vitányi, Paul M. B. Locality, communication, and interconnect length in multicomputers. **89h:68074**
— *see also* **Mullender, Sape J., 89k:68009**
Vitter, Jeffrey Scott *see* **Schevon, Catherine A., 89j:68052**
Vorob′ev, N. N., Jr. (*with* Grigor′ev, D. Yu.) Solution of systems of polynomial inequalities over real-closed fields in subexponential time. (Russian. English summary) **89m:68073**
Wachs, Michelle L. *see* **Hu, Te Chiang, 89a:68034**
Wagner, Klaus Werner *see* **Köbler, Johannes; et al., 89g:03058**
Wang, D. W. (*with* Kuo, Yü Shên) A study on two geometric location problems. **89i:68121**
(Wang, Zhe Min) *see* **Bachem, A., 89m:90130**
Wanke, Egon *see* **Lengauer, Thomas, 89m:05077**
Warner, Daniel D. *see* **Dearing, P. M.; et al., 89i:05176**
Wasilkowski, G. W. *see* **Kacewicz, B. Z., 89a:65099**
Weber, Andreas *see* **Galil, Zvi; et al., 89c:68043**
Wegener, Ingo The range of new lower bound techniques for WRAMs and bounded depth circuits. (German and Russian summaries) **89i:68046**
(Wei, Guo Hua) *see* **Bachem, A., 89m:90130**
Weiss, Mark Allen (*with* Sedgewick, Robert) Bad cases for shaker-sort. **89m:68019**
Welch, Jennifer Lundelius (*with* Lynch, Nancy) A new fault-tolerant algorithm for clock synchronization. **89f:68009**
Welzl, Emo *see* **Alt, Helmut, 89k:68141**
Wenger, Rephael *see* **Avis, David, 89i:68120**
Whitesides, S. *see* **Lenhart, W.; et al., 89k:68145**
Wigderson, Avi *see* **Fich, Faith E.; et al., 89f:68070; Linial, Nathan; et al., 89i:05187; Fich, Faith E.; et al., 89i:68036** *and* **Karp, Richard M.; et al., 89i:68037**
Wilber, Robert White pebbles help. **89j:90282**
Witsenhausen, H. S. *see* **Kahn, J.; et al., 89j:90279**
Wood, Derick *see* **Ottmann, Thomas; et al., 89h:68148** *and* **Klein, Rolf, 89j:68023**
Wos, Larry *see* **Parrello, Bruce D.; et al., 89j:68144**
Wu, Shu Shih Y. *see* **Cozzens, Margaret B., 89a:05099**
Xie, Shen Quan The complexity of a periodic sequence over GF(p). **89k:94052**
Xiong, Xiao-Ming (*with* Kuh, Ernest S.) A unified approach to the via minimization problem. **89m:90066**
Xu, Lei Some views on the algorithm SA. (Chinese. English summary) (Not in MR)

Xue, Jin Yun (*with* Gries, David) Developing a linear algorithm for cubing a cyclic permutation. (Not in MR)
Yamamoto, Hiroaki (*with* Noguchi, Shoichi) Comparison of the power between reversal-bounded ATMs and reversal-bounded NTMs. **89h:68036**
Yamane, Nobumoto *see* **Morikawa, Yoshitaka; et al.**, (Not in MR)
Yang, Cheng En The worst case analysis of the largest angle method for the travelling salesman problem—a note. **89j:90110**
Yap, Chee-Keng Parallel triangulation of a polygon in two calls to the trapezoidal map. **89a:68211**
— *see also* **Aggarwal, Alok; et al., 89h:68141; Lenhart, W.; et al., 89k:68145** *and* **Algorithmic and geometric aspects of robotics, 89m:68138**
Yesha, Yaacov *see* **He, Xin, 89e:05071**
Yu, Jenn-Hwa *see* **Pittel, B., 89h:68020**
Yu, Xiang Dong *see* **Huang, Wen Qi, 89i:68042**
Zaguia, Nejib Greedy posets for the bump-minimizing problem. **89k:06004**
— *see also* **Al-Thukair, Fawzi A., 89e:06002**
Zakharevich, M. I. Ergodic properties of S. Yu. Maslov's iterative method. (Russian) **89i:03020**
Zeitman, R. Suzanne *see* **Grossman, Jerrold W., 89i:03078**
Zhang, Shu Hua *see* **Li, Lian, 89m:68098**
Zhu, Hong^1 (*with* Li, Ke) The complexity of transformation from cyclic to acyclic database schemes. (Russian summary) **89j:68032**

Items listed otherwise than by author

Algorithmic and geometric aspects of robotics ★ Algorithmic and geometric aspects of robotics. **89m:68138**
Foundations of deductive databases and logic programming ★ Foundations of deductive databases and logic programming. **89m:68125**
Lectures:
  Computation theory ★ Trends in theoretical computer science. **89m:68002**
  Open problems in communication and computation ★ Open problems in communication and computation. **89c:94003**
Trends in theoretical computer science ★ Trends in theoretical computer science. **89m:68002**
Udine ★ Trends in theoretical computer science. **89m:68002**
Washington, D.C. ★ Foundations of deductive databases and logic programming. **89m:68125**
Workshop:
  Foundations of deductive databases and logic programming ★ Foundations of deductive databases and logic programming. **89m:68125**

68Q30 Algorithmic information theory (Kolmogorov complexity, etc.)

Abu-Mostafa, Yaser S. Random problems. **89k:68076**
Asarin, E. A. Some properties of finite sequences that are Δ-random in the sense of Kolmogorov. (Russian) **89j:68074**
Calude, Cristian (*with* Chiţescu, Ion) Random sequences according to P. Martin-Löf. **89e:68059**
Chiţescu, Ion *see* **Calude, Cristian, 89e:68059**
Huang, Xiaoqiu A lower bound for the edit-distance problem under an arbitrary cost function. **89d:68034**
Kolmogorov, A. N. (*with* Uspenskiĭ, V. A.) Algorithms and randomness. (Russian) **89d:68035**
Makovoz, Yuly On the Kolmogorov complexity of functions of finite smoothness. **89c:68053**
Muchnik, An. A. Lower bounds for frequencies in computable sequences, and relativized a priori probability. (Russian) **89j:68075**
Razborov, A. A. Lower bounds of the monotone complexity of Boolean functions. (Russian) **89h:68072**
Stojanović, Srdjan (*with* Vidaković, B.) Some properties of the combinational measure of complexity of binary words. **89d:68036**
Uspenskii, V. A. *see* **Kolmogorov, A. N., 89d:68035**
Vidaković, B. *see* **Stojanović, Srdjan, 89d:68036**
Zimand, Marius Complexity bounded Martin-Löf tests. **89i:68064**

Items with secondary classifications in 68Q30

(Barzdin′, Ya. M.) *see* **Kolmogorov, A. N., 89a:01104**
(Bogolyubov, N. N.) *see* **Kolmogorov, A. N., 89a:01104**
Book, Ronald V. (*with* Orponen, P.; Russo, D.; Watanabe, Osamu) Lowness properties of sets in the exponential-time hierarchy. **89h:68049**
Borwein, J. M. (*with* Borwein, P. B.) ★ Pi and the AGM. **89a:11134**
Borwein, P. B. *see* **Borwein, J. M., 89a:11134**
Calude, Cristian ★ Theories of computational complexity. **89g:03057**
— (*with* Chiţescu, Ion) Random sequences: some topological and measure-theoretical properties. **89m:60004**
Chaitin, Gregory J. ★ Information, randomness & incompleteness. **89f:01089**
Chiţescu, Ion *see* **Calude, Cristian, 89m:60004**
(Cover, Thomas M.) *see* **Open problems in communication and computation, 89c:94003**
Demetrovics, János (*with* Vu Duc Thi) Relations and minimal keys. (Russian summary) **89e:68016**
(Dobrushin, R. L.) *see* **Kolmogorov, A. N., 89a:01104**
Farinone, Jean-Marc *see* **Pierre, Laurent, 89h:68088**
Gafni, Eli *see* **Marberg, John M., 89i:68015**
(Gnedenko, B. V.) *see* **Kolmogorov, A. N., 89a:01104**
(Gopinath, B.) *see* **Open problems in communication and computation, 89c:94003**
Grinchuk, M. I. Complexity of the realization of a sequence of triangular Boolean matrices by gate schemes of varying depth. (Russian) **89d:94058**
Grossman, Jerrold W. (*with* Zeitman, R. Suzanne) An inherently iterative computation of Ackermann's function. **89i:03078**
Hartmanis, Juris (*with* Hemachandra, Lane) On sparse oracles separating feasible complexity classes. **89i:68041**
Hemachandra, Lane *see* **Hartmanis, Juris, 89i:68041**
Ibaraki, Toshihide (*with* Katoh, Naoki) ★ Resource allocation problems. **89e:90179**
Katajainen, Jyrki (*with* van Leeuwen, Jan; Penttonen, Martti) Fast simulation of Turing machines by random access machines. **89e:68029**
Katoh, Naoki *see* **Ibaraki, Toshihide, 89e:90179**
Ko, Ker-I On the notion of infinite pseudorandom sequences. **89a:68074**
Kolmogorov, A. N. ★ Теория информации и теория алгоритмов. (Russian) [Information theory and the theory of algorithms] **89a:01104**
Kramosil, Ivan General pseudorandom sequences of high algorithmic complexity. (Russian summary) **89h:03033**
— (*with* Šindelář, Jan) A note on the law of iterated logarithm from the viewpoint of Kolmogorov program complexity. (Russian summary) **89b:60076**
van Leeuwen, Jan *see* **Katajainen, Jyrki; et al., 89e:68029**
Long, Douglas L. (*with* Wigderson, Avi) The discrete logarithm hides $O(\log n)$ bits. **89e:68026**
Marberg, John M. (*with* Gafni, Eli) Sorting in constant number of row and column phases on a mesh. **89i:68015**
Martirosyan, A. A. Some classes of reliable algorithms for inductive inference. (Russian. Armenian summary) **89b:03067**
Orponen, P. *see* **Book, Ronald V.; et al., 89h:68049**
Packel, Edward W. The algorithm designer versus nature: a game-theoretic approach to information-based complexity. **89j:68070**
— Do linear problems have linear optimal algorithms? **89h:68068**
Papachristou, Christos A. Associative table lookup processing for multioperand residue arithmetic. **89g:68029**
Penot, Jean-Paul Une vue simplifiée de la théorie de la complexité. [A simplified view of complexity theory] **89d:90014**
Penttonen, Martti *see* **Katajainen, Jyrki; et al., 89e:68029**
Pierre, Laurent (*with* Farinone, Jean-Marc) Rational index of context-free languages in $\exp\Theta(\sqrt[p]{n})$ and $n^{\Theta((\ln n)^{1/p})}$. **89h:68088**
(Prokhorov, Yu. V.) *see* **Kolmogorov, A. N., 89a:01104**
Rissanen, Jorma Stochastic complexity and the MDL principle. **89a:62007**
Russo, D. *see* **Book, Ronald V.; et al., 89h:68049**
Seiferas, Joel A variant of Ben-Or's lower bound for algebraic decision trees. **89d:68015**
(Semenov, A. L.) *see* **Kolmogorov, A. N., 89a:01104**
Semenov, M. A. (*with* Terkel′, D. A.) Games of probabilistic and deterministic algorithms of bounded complexity. (Russian) **89j:68041**
Sharir, M. *see* **Sifrony, S., 89f:68069**
(Shen′, A. Kh.) *see* **Kolmogorov, A. N., 89a:01104**
(Shiryaev, A. N.) *see* **Kolmogorov, A. N., 89a:01104**
Sifrony, S. (*with* Sharir, M.) A new efficient motion-planning algorithm for a rod in two-dimensional polygonal space. **89f:68069**
(Sinaĭ, Ya. G.) *see* **Kolmogorov, A. N., 89a:01104**
Šindelář, Jan *see* **Kramosil, Ivan, 89b:60076**
Smale, Steve Algorithms for solving equations. **89d:65060**
(Sobolev, S. L.) *see* **Kolmogorov, A. N., 89a:01104**
Terkel′, D. A. *see* **Semenov, M. A., 89j:68041**
(Tikhomirov, V. M.) *see* **Kolmogorov, A. N., 89a:01104**
(Uspenskiĭ, V. A.) *see* **Kolmogorov, A. N., 89a:01104**
Vovk, V. G. The law of the iterated logarithm for sequences that are random in the sense of Kolmogorov or chaotic. (Russian) **89e:60072**
Vu Duc Thi *see* **Demetrovics, János, 89e:68016**
V′yugin, V. V. The defect of randomness of a finite object with respect to measures with given bounds on their complexity. (Russian) **89b:60014**
Watanabe, Osamu *see* **Book, Ronald V.; et al., 89h:68049**
Werschulz, Arthur G. An information-based approach to ill-posed problems. **89b:65141**
Wigderson, Avi *see* **Long, Douglas L., 89e:68026**
Woźniakowski, Henryk Probabilistic setting of information-based complexity. **89g:68031**
Yomdin, Y. Approximational complexity of functions. **89h:58031**
Zeitman, R. Suzanne *see* **Grossman, Jerrold W., 89i:03078**

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Open problems in communication and computation ★ Open problems in communication and computation. **89c:94003**

68Q35 VLSI algorithms

Acciaro, V. (*with* Nayak, Amiya Ranjan; Santoro, Nicola) On the fault-tolerance of reconfigurable VLSI systolic arrays. (*see* **89m:00009**)
Alakoz, G. M. (*with* Baryutina, T. L.; Vol′pert, L. A.) Implementation of digital signal processing devices in array-programmable homogeneous media. (Russian) (*see* **89g:94002**)
Ballesteros, J. *see* **Sánchez P., J. M., 89k:68078**
Baryutina, T. L. *see* **Alakoz, G. M.; et al.**, (**89g:94002**)
Becker, Bernd Efficient testing of optimal time adders. **89i:68065**
Bilardi, Gianfranco (*with* Sarrafzadeh, Majid) Optimal VLSI circuits for the discrete Fourier transform. **89d:68037**
Bose, Pradip A novel technique for efficient parallel implementation of a classical logic/fault simulation problem. (Not in MR)
Capocelli, R. M. (*with* Giancarlo, Raffaele) Efficient VLSI networks for converting an integer from binary system to residue number system and vice versa. **89i:68066**
Codenotti, B. On the VLSI complexity of some arithmetic and numerical problems. **89d:68038**
Djidjev, H. N. Design and analysis of systolic implementations. (Russian summary) **89e:68060**
Dolev, Danny *see* **Siegel, Alan, 89h:68073**
Erdős, Paul (*with* Koren, I.; Moran, Shlomo; Silberman, G. M.; Zaks, S.) Minimum-diameter cyclic arrangements in mapping data-flow graphs onto VLSI arrays. **89k:68077**
Evans, David J. *see* **Megson, G. M., 89j:68077**

Foster, M. J. (*with* Greenberg, Ronald I.) Lower bounds on the area of finite-state machines. **89m:68069**

Fujiwara, Eiji (*with* Matsuoka, Kohji) Fault-tolerant k-out-of-n logic unit networks. (Not in MR)

Giancarlo, Raffaele *see* **Capocelli, R. M., 89i:68066**

Greenberg, Ronald I. (*with* Leiserson, Charles E.) A compact layout for the three-dimensional tree of meshes. **89g:68032a**

— (*with* Leiserson, Charles E.) Erratum to: "A compact layout for the three-dimensional tree of meshes". **89g:68032b**

— *see also* **Foster, M. J., 89m:68069**

Hagihara, Ken'ichi *see* **Manabe, Yoshifumi; et al., 89i:68067** *and* **Masuzawa, Toshimitsu; et al.**, (Not in MR)

Heath, Lenwood S. (*with* Rosenberg, Arnold L.; Smith, Bruce T.) The physical mapping problem for parallel architectures. **89j:68076**

Hou, Yi Bin Trinity algebra and its application to machine decompositions. **89g:68033**

Hromkovič, Juraj Lower bound techniques for VLSI algorithms. **89b:68035**

Huang, Shou-Hsuan Stephen A VLSI partition algorithm. (Not in MR)

Kedem, Zvi Meir *see* **Lee, Peizong**, (Not in MR)

Koren, I. *see* **Erdős, Paul; et al., 89k:68077**

Kumičáková, Galina Chomsky hierarchy and communication complexity hierarchy. (*see* **89g:68002**)

Kunde, Manfred (*with* Lang, Hans-Werner; Schimmler, Manfred; Schmeck, Hartmut; Schröder, Heiko) The instruction systolic array and its relation to other models of parallel computers. (Not in MR)

Lang, Hans-Werner *see* **Kunde, Manfred; et al.**, (Not in MR)

Lee, Peizong (*with* Kedem, Zvi Meir) Synthesizing linear array algorithms from nested for loop algorithms. (Not in MR)

Leiserson, Charles E. *see* **Greenberg, Ronald I., 89g:68032a** *and* **89g:68032b**

Liu, Chung Laung *see* **Wong, D. F.**, (**89f:68003**)

Madan, B. B. *see* **Zubair, M., 89a:68111**

Manabe, Yoshifumi (*with* Hagihara, Ken'ichi; Tokura, Nobuki) The minimum track number of the narrower channel in the single-row single-layer routing. **89i:68067**

Marcynuk, Don Concurrent checking of nonconcurrent PLAs. (*see* **89m:00009**)

Masuzawa, Toshimitsu (*with* Hagihara, Ken'ichi; Tokura, Nobuki) Distributed algorithms for fault diagnosis of processors. (Not in MR)

Matsuoka, Kohji *see* **Fujiwara, Eiji**, (Not in MR)

Megson, G. M. (*with* Evans, David J.) Improved matrix product computation using double-pipeline systolic arrays. **89j:68077**

Molitor, Paul Free net algebras in VLSI-theory. **89e:68061**

Moran, Shlomo *see* **Erdős, Paul; et al., 89k:68077**

Nayak, Amiya Ranjan *see* **Acciaro, V.; et al.**, (**89m:00009**)

Pardubská, Dana Lower bound for linear systolic arrays. (*see* **89g:68002**)

Pinter, Shlomit S. (*with* Wolfstahl, Yaron) On mapping processes to processors in distributed systems. **89a:68109**

Prasanna Kumar, V. K. (*with* Sastry, Sarma) Efficient signal processing on a VLSI array. **89f:68032**

Ramakrishnan, I. V. *see* **Varman, P. J., 89m:68071**

Rosenberg, Arnold L. *see* **Heath, Lenwood S.; et al., 89j:68076**

Sánchez P., J. M. (*with* Ballesteros, J.) A graph-based method for PLA folding. (Spanish) **89k:68078**

Santoro, Nicola *see* **Acciaro, V.; et al.**, (**89m:00009**)

Sarrafzadeh, Majid *see* **Bilardi, Gianfranco, 89d:68037**

Sastry, Sarma *see* **Prasanna Kumar, V. K., 89f:68032**

Savage, Carla Recognizing majority on a one-way mesh. **89i:68068**

Scherson, Isaac D. (*with* Sen, Sandeep) Parallel sorting in two-dimensional VLSI models of computation. **89m:68070**

Schimmler, Manfred *see* **Kunde, Manfred; et al.**, (Not in MR)

Schmeck, Hartmut *see* **Kunde, Manfred; et al.**, (Not in MR)

Schröder, Heiko *see* **Kunde, Manfred; et al.**, (Not in MR)

Sen, Sandeep *see* **Scherson, Isaac D., 89m:68070**

Siegel, Alan (*with* Dolev, Danny) Some geometry for general river routing. **89h:68073**

Silberman, G. M. *see* **Erdős, Paul; et al., 89k:68077**

Smith, Bruce T. *see* **Heath, Lenwood S.; et al., 89j:68076**

Sýkora, O. (*with* Vřto, I.) Tight chip area lower bounds for string matching. **89k:68079**

Tokura, Nobuki *see* **Manabe, Yoshifumi; et al., 89i:68067** *and* **Masuzawa, Toshimitsu; et al.**, (Not in MR)

Varman, P. J. (*with* Ramakrishnan, I. V.) Optimal matrix multiplication on fault-tolerant VLSI arrays. **89m:68071**

Vitányi, Paul M. B. Locality, communication, and interconnect length in multicomputers. **89h:68074**

Vol'pert, L. A. *see* **Alakoz, G. M.; et al.**, (**89g:94002**)

Vřto, I. Area complexity of VLSI computation over a ring of integers modulo m. (Russian summary) **89k:68080**

— *see also* **Sýkora, O., 89k:68079**

Wolfstahl, Yaron *see* **Pinter, Shlomit S., 89a:68109**

Wong, D. F. (*with* Liu, Chung Laung) Array optimization for VLSI synthesis. (*see* **89f:68003**)

Zaks, S. *see* **Erdős, Paul; et al., 89k:68077**

Zimmermann, Karl-Heinz ★ Pipeline-Automaten. (German) [Pipeline automata] **89a:68110**

Zubair, M. (*with* Madan, B. B.) Efficient systolic algorithm for finding bridges in a connected graph. **89a:68111**

Items with secondary classifications in 68Q35

Akers, Sheldon B. (*with* Krishnamurthy, Balakrishnan) A group-theoretic model for symmetric interconnection networks. **89k:68115**

Aso, Hirotomo (*with* Inagaki, Yasuyoshi) Formal description of systolic algorithms and an analysis of the information flow. **89m:68101**

Azarenok, A. S. (*with* Krikun, V. S.) A clique in an n-partite graph and optimal orientations of functional blocks of integral schemes. (Russian. English summary) **89h:68059**

Colbourn, Charles J. *see* **El-Mallah, Ehab S., 89d:68068**

Dagan, Ido (*with* Golumbic, Martin Charles; Pinter, Ron Yair) Trapezoid graphs and their coloring. **89i:05115**

El-Mallah, Ehab S. (*with* Colbourn, Charles J.) The complexity of some edge deletion problems. **89d:68068**

Fellows, Michael R. (*with* Langston, Michael A.) Nonconstructive advances in polynomial-time complexity. **89c:68035**

Fujisawa, Toshio *see* **Masuda, Sumio; et al., 89h:94016**

Golumbic, Martin Charles *see* **Dagan, Ido; et al., 89i:05115**

Gonzalez, Teofilo F. (*with* Lee, Sing-Ling) A 1.6 approximation algorithm for routing multiterminal nets. **89a:68088**

Inagaki, Yasuyoshi *see* **Aso, Hirotomo, 89m:68101**

Kashiwabara, Toshinobu *see* **Masuda, Sumio; et al., 89h:94016**

Kosovskiĭ, N. K. A lower bound on circuit complexity in the reduction of exponential enumeration. (Russian) **89e:03109**

Krikun, V. S. *see* **Azarenok, A. S., 89h:68059**

Krishnamurthy, Balakrishnan *see* **Akers, Sheldon B., 89k:68115**

Lai, Ten Hwang (*with* Sprague, Alan) On the routability of a convex grid. **89e:90086**

Langston, Michael A. *see* **Fellows, Michael R., 89c:68035**

Lee, Sing-Ling *see* **Gonzalez, Teofilo F., 89a:68088**

Luccio, Fabrizio (*with* Pietracaprina, A.; Pucci, G.) A probabilistic simulation of PRAMs on a bounded degree network. **89h:68047**

Maley, F. Miller Toward a mathematical theory of single-layer wire routing. **89i:90030**

Masuda, Sumio (*with* Kashiwabara, Toshinobu; Fujisawa, Toshio) On single layer routing with no wires passing between adjacent pins. **89h:94016**

Moshkov, M. Yu. Reducibility of various types of contact schemes to schemes of functional elements. (Russian) **89k:94103**

Ning, Yuan Zhong Improving the efficiency of inter-subsystem communication in waveform relaxation. (Chinese. English summary) (Not in MR)

Paterson, M. S. Universal chains and wiring layouts. **89d:68072**

Pietracaprina, A. *see* **Luccio, Fabrizio; et al., 89h:68047**

Pinter, Ron Yair *see* **Dagan, Ido; et al., 89i:05115**

Pucci, G. *see* **Luccio, Fabrizio; et al., 89h:68047**

Sakakibara, Yasubumi Inductive inference of logic programs based on algebraic semantics. (*see* **89i:68001**)

Sprague, Alan *see* **Lai, Ten Hwang, 89e:90086**

Stöhr, Elena A trade-off between page number and page width of book embeddings of graphs. **89i:05110**

Vazirani, Umesh V. Strong communication complexity or generating quasirandom sequences from two communicating semirandom sources. **89f:68031**

Wawryn, Krzysztof Layout including parasitics for printed circuit boards. **89c:94051**

Wilson, Christopher B. Relativized NC. **89d:68023**

68Q40 Symbolic computation, algebraic computation

Akritas, Alkiviadis G. A new method for computing polynomial greatest common divisors and polynomial remainder sequences. **89e:68062**

Alt, Helmut Comparing the combinational complexities of arithmetic functions. **89g:68034**

Bird, Richard S. An introduction to the theory of lists. **89c:68054**

Buchberger, Bruno Applications of Gröbner bases in nonlinear computational geometry. **89a:68112**

Bundy, Alan *see* **Sterling, Leon; et al.**, (Not in MR)

Byrd, Lawrence *see* **Sterling, Leon; et al.**, (Not in MR)

Cohen, Daniel E. Closure relations. Buchberger's algorithm, and polynomials in infinitely many variables. **89a:68113**

Czapor, S. R. Solving algebraic equations: combining Buchberger's algorithm with multivariate factorization. **89k:68081**

Davenport, James H. Computer algebra applied to itself. **89m:68072**

Gokhale, Maya B. *see* **Myers, Thomas J.**, (Not in MR)

Grigor'ev, D. Yu. Computational complexity in polynomial algebra. **89e:68063**

— *see also* **Vorob'ev, N. N., Jr., 89m:68073**

He, Zi Fan (*with* Xu, Meng Lie) Design and implementation of an interface for a symbolic mathematical computation system. (Chinese. English summary) **89h:68075**

Kaminski, Michael A linear time algorithm for residue computation and a fast algorithm for division with a sparse divisor. **89f:68033**

Kutzler, Bernhard Introduction to Buchberger's Gröbner bases method. **89c:68055**

Moussiaux, A. *see* **Tombal, Ph.**, (Not in MR)

Murogov, V. N. *see* **Proĭdakov, È. M.**, (Not in MR)

Myers, Thomas J. (*with* Gokhale, Maya B.) Parallel scheduling of recursively defined arrays. (Not in MR)

O'Keefe, Richard *see* **Sterling, Leon; et al.**, (Not in MR)

Proĭdakov, È. M. (*with* Murogov, V. N.) ★ Пакет программ "Символьная математика". (Russian) [The program package "Symbolic mathematics"] (Not in MR)

Richter, Michael M. The Knuth-Bendix completion procedure, the growth function, and polycyclic groups. **89j:68078**

Robertson, Edmund F. Tietze transformations with weighted substring search. **89h:68076**

Silver, Bernard *see* **Sterling, Leon; et al.**, (Not in MR)

Sterling, Leon (*with* Bundy, Alan; Byrd, Lawrence; O'Keefe, Richard; Silver, Bernard) Solving symbolic equations with PRESS. (Not in MR)

Stifter, Sabine A generalization of reduction rings. **89h:68077**

Tombal, Ph. (*with* Moussiaux, A.) Algebraic programming of geometrical calculus and Clifford algebra. (Not in MR)

Vorob'ev, N. N., Jr. (*with* Grigor'ev, D. Yu.) Solution of systems of polynomial inequalities over real-closed fields in subexponential time. (Russian. English summary) **89m:68073**

Walther, Christoph Many-sorted unification. **89e:68064**

Wrathall, C. The word problem for free partially commutative groups. **89h:68078**

Xu, Meng Lie *see* **He, Zi Fan, 89h:68075**

Items with secondary classifications in 68Q40

Abbott, J. A. (*with* Bradford, R. J.; Davenport, James H.) Factorisation of polynomials: old ideas and recent results. **89f:12001**

Akritas, Alkiviadis G. A simple proof of the validity of the reduced prs algorithm. (German summary) **89e:12001**

Bach, Eric (*with* Shallit, Jeffrey) Factoring with cyclotomic polynomials. **89k:11127**

Bachmair, Leo (*with* Dershowitz, Nachum) Critical pair criteria for completion. **89j:68087**

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Blankenship, Gilmer L. (*with* LaVigna, A.; MacEnany, D. C.; Quadrat, J.-P.; Yan, I.) A MACSYMA/expert system for nonlinear filtering. **89j:93114**

Brackx, F. (*with* Constales, Denis; Delanghe, R.; Serras, Herman) Clifford algebra with REDUCE. **89i:15035**

Bradford, R. J. *see* **Abbott, J. A.; et al., 89f:12001**

Buchberger, Bruno Applications of Gröbner bases in nonlinear computational geometry. **89g:13001**

Cecchini, R. (*with* Tarlini, M.) Symbolic Lie algebras manipulations using COMMON LISP. **89k:17002**

Cerlienco, L. (*with* Mignotte, Maurice; Piras, F.) Computing the measure of a polynomial. **89a:12001**

Chudnovsky, D. V. (*with* Chudnovsky, G. V.) Computer assisted number theory with applications. **89a:11130**

Chudnovsky, G. V. *see* **Chudnovsky, D. V., 89a:11130**

Constales, Denis *see* **Brackx, F.; et al., 89i:15035**

Cowell, R. G. *see* **Wright, F. J., 89k:58043**

Daderkin, D. O. On the relation between the height and the register complexity of terms. (Russian) **89e:68046**

Davenport, James H. *see* **Abbott, J. A.; et al., 89f:12001**

Delanghe, R. *see* **Brackx, F.; et al., 89i:15035**

Dershowitz, Nachum *see* **Bachmair, Leo, 89j:68087**

van Emde Boas, Peter Complexity of symbolic computing. **89m:68039**

von zur Gathen, Joachim Computing powers in parallel. **89j:68060**

Gennero, M. C. *see* **Poli, A., 89h:11082**

Gibert, Jacek Functional programming with combinators. **89a:68019**

Grigor′ev, D. Yu. (*with* Vorob′ev, N. N., Jr.) Solving systems of polynomial inequalities in subexponential time. **89h:13001**

Hunt, H. B., III (*with* Stearns, Richard E.) Nonlinear algebra and optimization on rings are "hard". **89h:68062**

Kalašová, Elena Infinite sets of primes and of powers of an integer a are not context-free. (Russian and Slovak summaries) **89b:11016**

Kaltofen, Erich Greatest common divisors of polynomials given by straight-line programs. **89e:12002**

Kaminski, Michael An algorithm for polynomial multiplication that does not depend on the ring constants. **89k:68066**

Kandri-Rody, Abdelilah (*with* Kapur, Deepak) Computing a Gröbner basis of a polynomial ideal over a Euclidean domain. **89h:13002**

Kannan, Ravindran Algorithmic geometry of numbers. **89a:11131**

Kapur, Deepak (*with* Musser, David R.; Narendran, Paliath) Only prime superpositions need be considered in the Knuth-Bendix completion procedure. **89j:68093**

— *see also* **Benanav, Dan; et al., 89a:68131** *and* **Kandri-Rody, Abdelilah, 89h:13002**

Karr, Michael Theory of summation in finite terms. **89a:12016**

Kendall, Wilfrid S. Symbolic computation and the diffusion of shapes of triads. **89m:60030**

LaVigna, A. *see* **Blankenship, Gilmer L.; et al., 89j:93114**

MacEnany, D. C. *see* **Blankenship, Gilmer L.; et al., 89j:93114**

Mignotte, Maurice (*with* Schnorr, C.-P.) Calcul déterministe des racines d'un polynôme dans un corps fini. (English summary) [Deterministic computation of the roots of polynomials over finite fields] **89i:11134**

— *see also* **Cerlienco, L.; et al., 89a:12001**

Monagan, M. B. *see* **Scott, T. C.; et al.**, (Not in MR)

Moore, R. A. *see* **Scott, T. C.; et al.**, (Not in MR)

Musser, David R. *see* **Kapur, Deepak; et al., 89j:68093**

Narendran, Paliath *see* **Benanav, Dan; et al., 89a:68131** *and* **Kapur, Deepak; et al., 89j:68093**

Ng, Tze Beng Computation of the cohomology of $B\hat{S}O_n\langle 16\rangle$ for $23 \leq n \leq 26$ using REDUCE. (Not in MR)

Pan, V. Computing the determinant and the characteristic polynomial of a matrix via solving linear systems of equations. **89j:15013**

Piras, F. *see* **Cerlienco, L.; et al., 89a:12001**

Pittaluga, Marilena (*with* Strickland, Elisabetta) On computers and modular representations of $SL_n(K)$. **89k:22025**

Poli, A. (*with* Gennero, M. C.) FAST16: a software program for factorising polynomials over large $GF(p)$. **89h:11082**

Quadrat, J.-P. *see* **Blankenship, Gilmer L.; et al., 89j:93114**

(Robbiano, Lorenzo) *see* **Computational aspects of commutative algebra, 89j:68004**

Rónyai, Lajos A note on factoring polynomials modulo special primes. **89g:11119**

— Factoring polynomials over finite fields. **89k:11124**

Schnorr, C.-P. *see* **Mignotte, Maurice, 89i:11134**

Schönhage, Arnold Probabilistic computation of integer polynomial GCDs. **89h:11084**

Schwartz, Jacob T. (*with* Sharir, M.) Motion planning and related geometric algorithms in robotics. **89h:68150**

Schwartz, Niels Stability of Gröbner bases. **89i:13024**

Schwarz, Fritz Symmetries of differential equations: from Sophus Lie to computer algebra. **89i:22013**

Scott, T. C. (*with* Moore, R. A.; Monagan, M. B.) Resolution of many particle electrodynamics by symbolic manipulation. (Not in MR)

Serras, Herman *see* **Brackx, F.; et al., 89i:15035**

Shallit, Jeffrey *see* **Bach, Eric, 89k:11127**

Sharir, M. *see* **Schwartz, Jacob T., 89h:68150**

Stearns, Richard E. *see* **Hunt, H. B., III, 89h:68062**

Stevens, Rick L. Challenge problems from nonassociative rings for theorems provers. (*see* **89c:68004**)

Strickland, Elisabetta *see* **Pittaluga, Marilena, 89k:22025**

Tarlini, M. *see* **Cecchini, R., 89k:17002**

Theodorou, N. *see* **Tzafestas, Spyros G., 89c:68002**

Traverso, Carlo Constructive methods and automatic computation in commutative algebra. (Italian) **89k:13001**

Tzafestas, Spyros G. (*with* Theodorou, N.) Computational algorithms for algebraic operations on multidimensional polynomials. **89c:68002**

Vorob′ev, N. N., Jr. *see* **Grigor′ev, D. Yu., 89h:13001**

Walther, Christoph ★ A many-sorted calculus based on resolution and paramodulation. **89c:03021**

Weispfenning, Volker Some bounds for the construction of Gröbner bases. **89i:12009**

Wright, F. J. (*with* Cowell, R. G.) Computer algebraic tools for applications of catastrophe theory. **89k:58043**

Yan, I. *see* **Blankenship, Gilmer L.; et al., 89j:93114**

Items listed otherwise than by author

Computational aspects of commutative algebra ★ Computational aspects of commutative algebra. **89j:68004**

68Q45 Formal languages

Aalbersberg, IJsbrand Jan (*with* Engelfriet, Joost; Rozenberg, Grzegorz) Restricting the complexity of regular DNLC languages. (*see* **89b:68009**)

Aizawa, Kunio *see* **Nakamura, Akira**[1]**; et al.**, (**89b:68009**)

Arbib, Michael A. *see* **Moll, Robert N.; et al., 89j:68084**

Arkhangel′skiĭ, K. V. *see* **Gorshkov, P. V., 89a:68117**

Autebert, Jean-Michel (*with* Boasson, Luc; Sénizergues, Géraud) Groups and NTS languages. **89a:68114**

(Ayers, K.) *see* **Brandenburg, Franz-J., 89d:68039**

Baryshev, M. Yu. Uniquely decodable codes for a language with one prohibited fragment. (Russian) **89h:68079**

Beauquier, D. Minimal automaton of a rational cover. **89i:68069**

Beauquier, J. (*with* Thimonier, Loÿs) Prefix-free words of length n over m letters: two-sided well-balanced parentheses and palindromes. **89g:68035**

— (*with* Blattner, M.; Latteux, M.) On commutative context-free languages. **89b:68036**

Bertoni, Alberto (*with* Goldwurm, M.; Sabadini, Nicoletta) Analysis of a class of algorithms for problems on trace languages. **89h:68080**

Blanchard, Paul Morphismes et comptages sur les langages rationnels. (English, German and Russian summaries) [Morphisms and computations on rational languages] **89i:68070**

Blattner, M. *see* **Beauquier, J.; et al., 89b:68036**

Boasson, Luc *see* **Autebert, Jean-Michel; et al., 89a:68114**

de Boer, Martin J. M. (*with* Lindenmayer, Aristid) Map OL-systems with edge label control: comparison of marker and cyclic systems. (*see* **89b:68009**)

Bordihn, Henning On deterministic grammars with valuations. **89m:68074**

Brandenburg, Franz-J. A note on: "Deque automata and a subfamily of context-sensitive languages which contains all semilinear bounded languages" [Theoret. Comput. Sci. **40** (1985), no. 2-3, 163–174; MR 87j:68065] by K. Ayers. **89d:68039**

— Representations of language families by homomorphic equality operations and generalized equality sets. **89g:68036**

Brandt, Ulrike (*with* Walter, H. K.-G.) Complete language tables. **89d:68040**

Bruschi, D. (*with* Pighizzini, G.; Sabadini, Nicoletta) On the existence of the minimum asynchronous automaton and on decision problems for unambiguous regular trace languages. (*see* **89b:68011**)

Choffrut, Christian Unavoidable subsets of words. (Spanish. French summary) **89h:68081**

Dassow, Jürgen Pure languages of regulated rewriting and their codings. **89e:68065**

Diekert, Volker (*with* Möbus, Axel) Hotz-isomorphism theorems in formal language theory. **89c:68056**

— (*with* Möbus, Axel) Hotz-isomorphism theorems in formal language theory. (French summary) **89m:68075**

Đỗ Long Vân *see* **Subramanian, K. G.; et al., 89a:68128**

Duval, Jean-Pierre Génération d'une section des classes de conjugaison et arbre des mots de Lyndon de longueur bornée. (English summary) [Generation of a section of conjugation classes and tree of Lyndon words of bounded length] **89k:68082**

Ehrenfeucht, Andrzej (*with* Hoogeboom, H. J.; Rozenberg, Grzegorz) Coordinated pair systems. I. Dyck words and classical pumping. (French summary) **89a:68115**

— (*with* Hoogeboom, H. J.; Rozenberg, Grzegorz) Coordinated pair systems. II. Sparse structure of Dyck words and Ogden's lemma. (French summary) **89a:68116**

— (*with* Hoogeboom, H. J.; Rozenberg, Grzegorz) Recording the use of memory in right-boundary grammars and push-down automata. **89d:68041**

Engelfriet, Joost (*with* Vogler, Heiko) Look-ahead on pushdowns. **89g:68037**

— (*with* Hoogeboom, H. J.) Prefix and equality languages of rational functions are co-context-free. **89h:68082**

— *see also* **Aalbersberg, IJsbrand Jan; et al.**, (**89b:68009**)

Evdokimov, A. A. The completeness of sets of words. (Russian) **89e:68066**

Farinone, Jean-Marc *see* **Pierre, Laurent, 89h:68088**

Filé, Gilberto The relation of two patterns with comparable languages. **89c:68057**

— The relation of two patterns with comparable languages. (French summary) **89m:68076**

Flajolet, Philippe Analytic models and ambiguity of context-free languages. **89e:68067**

Goldwurm, M. *see* **Bertoni, Alberto; et al., 89h:68080**

Gorshkov, P. V. (*with* Arkhangel′skiĭ, K. V.) Conditional identities in the algebra of regular languages. (Russian. English summary) **89a:68117**

Guo, Yu Qi (*with* Reis, C. M.; Thierrin, G.) On fd scopes and rf disjunctive languages. (Chinese) (Not in MR)

— (*with* Reis, C. M.; Thierrin, G.) Relatively f-disjunctive languages. **89i:68071**

— *see also* **Zhang, Shu Hua, 89i:68072**

Hashiguchi, Kosaburo Notes on congruence relations and factor pumping conditions for rational languages. **89j:68079**

Head, Tom (*with* Lando, Barbara) Regularity of sets of initial strings of periodic DOL-systems. **89a:68118**

— (*with* Lando, Barbara) Bounded DOL languages. **89g:68038**

Heuter, Uschi First-order properties of trees, star-free expressions, and aperiodicity. **89c:68058**

Holladay, Kenneth Estimating the size of context-free tiling languages. **89k:68083**

Hoogeboom, H. J. *see* **Ehrenfeucht, Andrzej; et al., 89a:68115; 89a:68116; 89d:68041** *and* **Engelfriet, Joost, 89h:68082**

Horváth, Sándor (*with* Kinber, Efim; Salomaa, Arto; Yu, Sheng) Decision problems resulting from grammatical inference. **89f:68034**

– (*with* Karhumäki, Juhani; Kleijn, Jetty) Results concerning palindromicity. (German and Russian summaries) **89d:68042**

(Howie, A.) *see* **Pin, J.-E., 89a:68125**

to, Masami[1] (*with* Katsura, M.; Shih, Hui Jan; Yu, S. S.) Automata accepting primitive words. **89b:68037**

Jędrzejowicz, Joanna Infinite hierarchy of expressions containing shuffle closure operator. **89j:68080**

Joshi, Aravind K. *see* **Vijay-Shanker, K.; et al.,** (**89a:68006**)

Karhumäki, Juhani The equivalence of mappings on languages. **89g:68039**

– The Ehrenfeucht conjecture for transducers. (German and Russian summaries) **89d:68043**

– *see also* **Horváth, Sándor; et al., 89d:68042**

Katsura, M. (*with* Shih, Hui Jan) Decomposition of languages into disjunctive outfix codes. **89k:68084**

– Disjunctive splittability of languages. **89f:68035**

– *see also* **Ito, Masami**[1]**; et al., 89b:68037**

Kfoury, A. J. *see* **Moll, Robert N.; et al., 89j:68084**

Kim, Changwook (*with* Sudborough, Ivan Hal) The membership and equivalence problems for picture languages. **89a:68119**

Kinber, Efim *see* **Horváth, Sándor; et al., 89f:68034**

Kleijn, Jetty *see* **Horváth, Sándor; et al., 89d:68042**

Kobayashi, Yuji Enumeration of irreducible binary words. **89f:68036**

Krob, D. Codes limites et factorisations finies du monoïde libre. (English summary) [Limit codes and finite factorizations of the free monoid] **89j:68081**

Kudlek, M. Homomorphic images of sentential form languages defined by regular systems. (German summary) **89d:68044**

Kuich, Werner Hauptkegel algebraischer Potenzreihen. (English and Russian summaries) [Principal cones of algebraic power series] **89c:68059**

– Matrix systems and principal cones of algebraic power series. **89h:68083**

Kuroda, S.-Y. A topological approach to structural equivalence of formal languages. (*see* **89a:68006**)

Lando, Barbara *see* **Head, Tom, 89a:68118** *and* **89g:68038**

Lange, Klaus-Jörn Complexity theory and formal languages. (*see* **89g:68002**)

Latteux, M. (*with* Turakainen, Paavo) A new normal form for the compositions of morphisms and inverse morphisms. **89h:68085**

– (*with* Timmerman, E.) Bifaithful starry transductions. **89h:68084**

– Commutations and language families. (*see* **89g:68002**)

– *see also* **Beauquier, J.; et al., 89b:68036**

Leonard, Martine A property of biprefix codes. (French summary) **89h:68086**

Le Thanh Hai (*with* Nguyen Quang Minh) The classes of languages can be identified in the limit from text presentations. (Hungarian summary) **89j:68082**

Li, Lian *see* **Wang, Shui Ting, 89j:68085**

Lindenmayer, Aristid Models for multicellular development: characterization, inference and complexity of L-systems. **89c:68060**

– *see also* **de Boer, Martin J. M.,** (**89b:68009**) *and* **Nakamura, Akira**[1]**; et al.,** (**89b:68009**)

Lippert, D. (*with* Thomas, Wolfgang) Relativized star-free expressions, first-order logic, and a concatenation game. **89m:68077**

Litovsky, I. (*with* Timmerman, E.) On generators of rational ω-power languages. **89a:68120**

Loboda, M. A note on canonical systems with control sets. (Russian and Polish summaries) **89g:68040**

de Luca, Aldo (*with* Varricchio, Stefano) On the factors of the Thue-Morse word on three symbols. **89h:68087**

– (*with* Pelagalli, Mariacristina; Varricchio, Stefano) Test sets for languages of infinite words. **89j:68083**

Main, Michael G. (*with* Rozenberg, Grzegorz) Handle NLC grammars and R.E. languages. **89a:68121**

Mäkinen, Erkki On Szilard languages of pure context-free grammars. (German and Russian summaries) **89a:68122**

Mansour, Y. (*with* Zaks, S.) On the bit complexity of distributed computations in a ring with a leader. **89b:68038**

McEliece, Robert J. *see* **Swanson, Laif, 89d:68048**

McNaughton, Robert (*with* Narendran, Paliath; Otto, Friedrich) Church-Rosser Thue systems and formal languages. **89e:68068**

Meduna, A. Characterization of the Chomsky hierarchy through sequential-parallel grammars. **89d:68045**

Mezník, Ivan On some structural properties of a subclass of ∞-regular languages. **89a:68123**

Möbus, Axel *see* **Diekert, Volker, 89c:68056** *and* **89m:68075**

Moll, Robert N. (*with* Arbib, Michael A.; Kfoury, A. J.) ★ An introduction to formal language theory. **89j:68084**

Moriya, Tetsuo Closure property of principal cones under substitution. **89k:68085**

Nakamura, Akira[1] (*with* Lindenmayer, Aristid; Aizawa, Kunio) Map OL systems with markers. (*see* **89b:68009**)

Narendran, Paliath *see* **McNaughton, Robert; et al., 89e:68068**

Nguyen Quang Minh *see* **Le Thanh Hai, 89j:68082**

Novotný, Miroslav *see* **Păun, Gh., 89a:68124**

Ochmański, Edward On morphisms of trace monoids. **89c:68061**

Orman, Gabriel V. A random variable connected with the process of generation of the words. (Romanian summary) **89m:68078**

Otto, Friedrich *see* **McNaughton, Robert; et al., 89e:68068**

Pandya, Paritosh (*with* Rangarajan, K.; Subramanian, K. G.) Level-fair derivations in context-free rewriting systems. **89d:68046**

Pardubská, Dana Closure properties of the family of languages defined by systolic tree automata. (Russian summary) **89k:68086**

Păun, Gh. (*with* Novotný, Miroslav) On some parameters occurring in certain effective constructions of grammars. **89a:68124**

Pelagalli, Mariacristina *see* **de Luca, Aldo; et al., 89j:68083**

Petrich, Mario (*with* Thierrin, G.) Congruences associated with DOL-schemes. **89d:68047**

Pierre, Laurent (*with* Farinone, Jean-Marc) Rational index of context-free languages in $\exp\Theta(\sqrt[p]{n})$ and $n^{\Theta((\ln n)^{1/p})}$. **89h:68088**

Pighizzini, G. *see* **Bruschi, D.; et al.,** (**89b:68011**)

Pin, J.-E. ★ Varieties of formal languages. **89a:68125**

– (*with* Straubing, Howard; Thérien, Denis) Locally trivial categories and unambiguous concatenation. **89h:68089**

(Pustejovsky, James) *see* **Moll, Robert N.; et al., 89j:68084**

Rangarajan, K. *see* **Pandya, Paritosh; et al., 89d:68046**

Reichel, Bernd A remark on some classifications of Indian parallel languages. (*see* **89g:68002**)

Reis, C. M. A note on F-disjunctive languages. **89b:68039**

– *see also* **Guo, Yu Qi; et al., 89i:68071** *and* (Not in MR)

Roth, Peter A note on word chains and regular languages. **89m:68079**

Rozenberg, Grzegorz *see* **Ehrenfeucht, Andrzej; et al., 89a:68115; 89a:68116; Main, Michael G., 89a:68121; Ehrenfeucht, Andrzej; et al., 89d:68041** *and* **Aalbersberg, IJsbrand Jan; et al.,** (**89b:68009**)

Sabadini, Nicoletta *see* **Bertoni, Alberto; et al., 89h:68080** *and* **Bruschi, D.; et al.,** (**89b:68011**)

Sakarovitch, Jacques Kleene's theorem revisited. **89b:68040**

– On regular trace languages. (French summary) **89c:68062**

Salomaa, Arto Markov algorithms as language-defining devices. **89a:68126**

– *see also* **Horváth, Sándor; et al., 89f:68034**

Santean, Lila Six arithmetic-like operations on languages. (*see* **89g:68002**)

Schmidt, Ursula Long unavoidable patterns. **89b:68041**

(Schützenberger, Marcel-Paul) *see* **Pin, J.-E., 89a:68125**

Sénizergues, Géraud *see* **Autebert, Jean-Michel; et al., 89a:68114**

Shih, Hui Jan *see* **Ito, Masami**[1]**; et al., 89b:68037** *and* **Katsura, M., 89k:68084**

Siromoney, Rani Advances in array languages. (*see* **89b:68009**)

– *see also* **Subramanian, K. G.; et al., 89a:68128**

Staiger, Ludwig Sequential mappings of ω-languages. (French summary) **89a:68127**

Stanevichene, L. I. On the problem of the intersection emptiness of deterministic languages. (Russian. English summary) **89c:68063**

Straubing, Howard *see* **Pin, J.-E.; et al., 89h:68089**

Subramanian, K. G. (*with* Đỗ Long Vân; Siromoney, Rani) On ambiguity of DTOL systems. **89a:68128**

– *see also* **Pandya, Paritosh; et al., 89d:68046**

Sudborough, Ivan Hal *see* **Kim, Changwook, 89a:68119**

Swanson, Laif (*with* McEliece, Robert J.) A simple decision procedure for Hofstadter's MIU-system. **89d:68048**

Szelepcsényi, Róbert The method of forced enumeration for nondeterministic automata. **89k:68087**

Terlutte, Alain Cyclic rational transductions and polynomials of rational functions. **89c:68064**

Thérien, Denis *see* **Pin, J.-E.; et al., 89h:68089**

Thierrin, G. *see* **Petrich, Mario, 89d:68047; Guo, Yu Qi; et al., 89i:68071** *and* (Not in MR)

Thimonier, Loÿs *see* **Beauquier, J., 89g:68035**

Thomas, Wolfgang On frontiers of regular trees. (French summary) **89c:68065**

– *see also* **Lippert, D., 89m:68077**

Timmerman, E. *see* **Litovsky, I., 89a:68120** *and* **Latteux, M., 89h:68084**

T"rkalanov, Krasimir D. Words in a strong normal form, stable congruence in a free semigroup and topological sorting. (Russian) (*see* **89j:68011**)

Turakainen, Paavo Characterizations of simple transducers and principal semi-AFLs in terms of morphisms and inverse morphisms. (German and Russian summaries) **89b:68042**

– The equivalence of deterministic gsm replications on Q-rational languages is decidable. **89e:68069**

– *see also* **Latteux, M., 89h:68085**

Tuza, Zsolt Some combinatorial problems concerning finite languages. **89a:68129**

– On the context-free production complexity of finite languages. **89a:68130**

Unruh, Erwin *see* **Wätjen, Dietmar, 89j:68086**

Varricchio, Stefano *see* **de Luca, Aldo, 89h:68087** *and* **89j:68083**

Vijay-Shanker, K. (*with* Weir, David J.; Joshi, Aravind K.) On the progression from context-free to tree adjoining languages. (*see* **89a:68006**)

Vogler, Heiko The OI-hierarchy is closed under control. **89m:68080**

– *see also* **Engelfriet, Joost, 89g:68037**

Walter, H. K.-G. *see* **Brandt, Ulrike, 89d:68040**

Wang, Shui Ting (*with* Li, Lian) On the closure property of recognizable families of languages with respect to weak concatenation. (Chinese) **89j:68085**

Wätjen, Dietmar (*with* Unruh, Erwin) On the degree of synchronization of k lT0L and k lET0L systems. **89j:68086**

Weir, David J. *see* **Vijay-Shanker, K.; et al.,** (**89a:68006**)

Yokomori, Takashi On purely morphic characterizations of context-free languages. **89c:68066**

Yu, S. S. *see* **Ito, Masami**[1]**; et al., 89b:68037**

Yu, Sheng Can the catenation of two weakly sparse languages be dense? **89h:68090**

– *see also* **Horváth, Sándor; et al., 89f:68034**

Zaks, S. *see* **Mansour, Y., 89b:68038**

Zhang, Liang Rectangle codes and square codes. **89k:68088**

Zhang, Shu Hua (*with* Guo, Yu Qi) Two notes on the classes of S-regular languages. (Chinese) **89i:68072**

– A prefix radical characterization of right convex ideal languages. (Chinese. English summary) **89h:68091**

Items with secondary classifications in 68Q45

Aalbersberg, IJsbrand Jan (*with* Rozenberg, Grzegorz) Theory of traces. **89j:68042**

Abisha, P. Jeyanthi *see* **Subramanian, K. G.; et al., 89k:68036**

Allouche, Jean-Paul (*with* Randé, Bernard; Thimonier, Loÿs) Fonctions génératrices transcendantes à coefficients engendrés par automates. (English summary) [Transcendental generating functions with coefficients generated by automata] **89c:68079**

Almeida, Jorge Overlapping of words in rational languages. **89a:68171**

Anisimov, A. V. (*with* Oleshchuk, V. A.) Church-Rosser systems with respect to formal languages. (Russian. English summary) **89f:68037**

Anisimov, P. A. (*with* Marichuk, M. N.) ★ Системы оперативного управления дискретными производствами. (Russian) [Systems for the operative control of discrete productions] **89h:68013**

Attiya, Hagit (*with* Mansour, Y.) Language complexity on the synchronous anonymous ring. **89b:68031**

Bartha, Miklós An equational axiomatization of systolic systems. **89i:68006**

Baryshev, M. Yu. An analytic description of the matrix of optimal alphabetic coding of elementary bounded-fragment languages. (Russian) **89e:94005**

Benson, David B. The shuffle bialgebra. **89h:68037**

Berard, Béatrice Literal shuffle. **89a:68059**

Blanchard, F. Développement des nombres réels en base non entière. (English summary) [Expansion of real numbers in a nonintegral base] **89j:11077**

Book, Ronald V. Thue systems and the Church-Rosser property: replacement systems, specification of formal languages, and presentations of monoids. **89a:03072**

Boonyavatana, R. (*with* Slutzki, Giora) The interchange or pump (di)lemmas for context-free languages. **89i:68073**

Carpi, Arturo Multidimensional unrepetitive configurations. **89h:20094**

Chang, Jik H. (*with* Ibarra, Oscar H.; Vergis, Anastasios) On the power of one-way communication. **89j:68037**

Choffrut, Christian (*with* Schützenberger, Marcel-Paul) Counting with rational functions. (French summary) **89j:68110**

Chrobak, Marek Hierarchies of one-way multihead automata languages. **89j:68111**

Courcelle, Bruno An axiomatic definition of context-free rewriting and its application to NLC graph grammars. **89c:68070**

Csuhaj-Varjú, E. A connection between descriptional complexity of context-free grammars and grammar form theory. **89c:68071**

Culik, Karel, II On invertible cellular automata. **89e:68094**

— (*with* Yu, Sheng) Undecidability of CA classification schemes. **89e:68095**

— Variations of the firing squad problem and applications. **89k:68109**

Dassow, Jürgen Subregularly controlled derivations: context-free case. **89j:68088**

Dauchet, M. (*with* Timmerman, E.) Continuous monoids and yields of infinite trees. (French summary) **89a:68050**

De Felice, Clelia Finite biprefix sets of paths in a graph. **89k:68117**

Delest, M.-P. Generating functions for column-convex polyominoes. **89e:05013**

Dymond, Patrick W. Input-driven languages are in $\log n$ depth. **89e:68035**

Fachini, E. (*with* Napoli, M.) C-tree systolic automata. **89e:68091**

Filé, Gilberto Classical and incremental attribute evaluation by means of recursive procedures. **89i:68074**

Fortnow, Lance (*with* Sipser, Michael) Are there interactive protocols for co-NP languages? **89i:68040**

Friedman, Joyce *see* **Rounds, William C.; et al., 89i:68078**

Giancarlo, Raffaele *see* **Rytter, Wojciech, 89a:68139**

Gibbons, Alan (*with* Rytter, Wojciech) An optimal parallel algorithm for dynamic expression evaluation and its applications. **89a:68087**

Guessarian, Irène (*with* Niar-Dinedane, Wafaa) An automaton characterization of fairness in SCCS. **89c:68029**

Habel, Annegret (*with* Kreowski, Hans-Jörg) Characteristics of graph languages generated by edge replacement. **89a:68135**

Horváth, Gy. *see* **Meduna, A., 89i:68076**

Hunter, R. P. On infinite words and dimension raising homomorphisms. **89k:22001**

Ibarra, Oscar H. (*with* Ravikumar, Bala) Relating the degree of ambiguity of finite automata to the succinctness of their representation. **89a:68052**

— (*with* Jiang, Tao; Ravikumar, Bala) Some subclasses of context-free languages in NC^1. **89j:68055**

— (*with* Jiang, Tao) Relating the power of cellular arrays to their closure properties. **89h:68111**

— *see also* **Chang, Jik H.; et al., 89j:68037**

Ishizaka, Hiroki Inductive inference of regular languages based on model inference. **89m:68060**

Jiang, Tao *see* **Ibarra, Oscar H., 89h:68111** *and* **89j:68055**

Kanivets, V. A. (*with* Lisovik, L. P.) Equivalence problems for A-transformers. (Russian) (*see* 89k:68003)

Kleijn, H. C. M. Basic ideas of selective substitution grammars. **89c:68072**

Ko, Ker-I *see* **Marron, Assaf, 89a:68054**

Kobuchi, Youichi *see* **Nishida, Taishin, 89g:68041**

Kreowski, Hans-Jörg *see* **Habel, Annegret, 89a:68135**

Kumičáková, Galina Chomsky hierarchy and communication complexity hierarchy. (*see* 89g:68002)

Kurshan, R. P. Complementing deterministic Büchi automata in polynomial time. **89g:68052**

Kurtz, Stuart A. A note on randomized polynomial time. **89c:03066**

Lange, Klaus-Jörn Decompositions of nondeterministic reductions. **89i:68045**

Lazdinya, G. K. A lower bound on reversal complexity for Turing machines. (Russian) **89i:68031**

Li, Wentian Errata: "Power spectra of regular languages and cellular automata" [Complex Systems **1** (1987), no. 1, 107–130]. (Not in MR)

Lin, Feng (*with* Wonham, W. M.) Decentralized supervisory control of discrete-event systems. **89g:93066**

Lisovik, L. P. *see* **Kanivets, V. A., (89k:68003)**

Manaster-Ramer, Alexis *see* **Rounds, William C.; et al., 89i:68078**

Mansour, Y. *see* **Attiya, Hagit, 89b:68031**

Marcus, Monica (*with* Păun, Gh.) Valence GSM-mappings. **89f:68018**

Margolis, S. W. (*with* Pin, J.-E.) Inverse semigroups and extensions of groups by semilattices. **89j:20066a**

— (*with* Pin, J.-E.) Expansions, free inverse semigroups, and Schützenberger product. **89j:20066b**

— (*with* Pin, J.-E.) Inverse semigroups and varieties of finite semigroups. **89j:20066c**

Marichuk, M. N. *see* **Anisimov, P. A., 89h:68013**

Markov, Andreĭ Andreevich Local models of languages, and systems of constraints on words. (Russian) **89k:03044**

Marron, Assaf (*with* Ko, Ker-I) Identification of pattern languages from examples and queries. **89a:68054**

Mauduit, Christian Substitutions et équirépartition modulo 1. [Permutations and uniform distribution modulo 1] **89j:11072**

Meduna, A. (*with* Horváth, Gy.) On state grammars. **89i:68076**

Mints, G. E. Some formal logical programming systems. (Russian. English summary) (Not in MR)

Moriya, Tetsuo Topological characterizations of infinite tree languages. **89d:03036**

Napoli, M. *see* **Fachini, E., 89e:68091**

Niar-Dinedane, Wafaa *see* **Guessarian, Irène, 89c:68029**

Nishida, Taishin (*with* Kobuchi, Youichi) Repeatable words for substitution. **89g:68041**

Oleshchuk, V. A. *see* **Anisimov, A. V., 89f:68037**

Păun, Gh. *see* **Marcus, Monica, 89f:68018**

Péladeau, Pierre (*with* Thérien, Denis) Sur les langages reconnus par des groupes nilpotents. (English summary) [On the languages recognized by nilpotent groups] **89a:68055**

Petrich, Mario (*with* Thierrin, G.) Languages induced by certain homomorphisms of a free monoid. **89g:20101**

Pin, J.-E. A topological approach to a conjecture of Rhodes. **89m:20069**

— *see also* **Margolis, S. W., 89j:20066a; 89j:20066b** *and* **89j:20066c**

Pollák, G. Infima in the power set of free semigroups. **89g:20091**

Popescu, Emil A characterization of the transversals of a preordered set. (Romanian summary) **89d:06011a**

— On determining the generators of Marcus categories. (Romanian summary) **89d:06011b**

Pudlák, Pavel (*with* Rödl, Vojtěch; Savický, Petr) Graph complexity. **89k:68123**

Randé, Bernard *see* **Allouche, Jean-Paul; et al., 89c:68079**

Rangarajan, K. (*with* Shyamasundar, R. K.) Parallel rewriting systems and Petri nets. **89i:68077**

Ravikumar, Bala *see* **Ibarra, Oscar H., 89a:68052** *and* **89j:68055**

Rindone, Giuseppina Construction d'une famille de codes associés à certains groupes finis. (English summary) [Construction of a family of codes associated with certain finite groups] **89h:20083**

Rödl, Vojtěch *see* **Pudlák, Pavel; et al., 89k:68123**

Rounds, William C. (*with* Manaster-Ramer, Alexis; Friedman, Joyce) Finding natural languages a home in formal language theory. **89i:68078**

Rozenberg, Grzegorz *see* **Aalbersberg, IJsbrand Jan, 89j:68042**

Rytter, Wojciech Parallel time $O(\log n)$ recognition of unambiguous context-free languages. **89f:68029**

— (*with* Giancarlo, Raffaele) Optimal parallel parsing of bracket languages. **89a:68139**

— *see also* **Gibbons, Alan, 89a:68087**

Savický, Petr *see* **Pudlák, Pavel; et al., 89k:68123**

Schützenberger, Marcel-Paul *see* **Choffrut, Christian, 89j:68110**

Sharir, M. Improved lower bounds on the length of Davenport-Schinzel sequences. **89j:11024**

Shyamasundar, R. K. *see* **Rangarajan, K., 89i:68077**

Sipser, Michael *see* **Fortnow, Lance, 89i:68040**

Siromoney, Rani *see* **Subramanian, K. G.; et al., 89k:68036**

Slutzki, Giora *see* **Boonyavatana, R., 89i:68073**

Spehner, Jean-Claude Deux transducteurs pour reconnaître les facteurs d'un langage fini dans un texte. (English summary) [Two transductors to recognize the factors of a finite language in a text] **89e:68055**

Staiger, Ludwig Research in the theory of ω-languages. (German and Russian summaries) **89b:03063**

Straubing, Howard (*with* Thérien, Denis) Partially ordered finite monoids and a theorem of I. Simon. **89j:20070**

Subramanian, K. G. (*with* Siromoney, Rani; Abisha, P. Jeyanthi) A DOL-TOL public key cryptosystem. **89k:68036**

Takada, Yuji[2] Grammatical inference for even linear languages based on control sets. **89f:68041**

Thérien, Denis *see* **Péladeau, Pierre, 89a:68055** *and* **Straubing, Howard, 89j:20070**

Thierrin, G. *see* **Petrich, Mario, 89g:20101**

Thimonier, Loÿs *see* **Allouche, Jean-Paul; et al., 89c:68079**

Timmerman, E. *see* **Dauchet, M., 89a:68050**

Tully, Edward J. Expletives in languages and middle units in semigroups. **89k:20101**

Vergis, Anastasios *see* **Chang, Jik H.; et al., 89j:68037**

Wasilewska, Anita Definable sets in knowledge representation systems. (Russian summary) **89e:68110**

Wonham, W. M. *see* **Lin, Feng, 89g:93066**

Yu, Sheng *see* **Culik, Karel, II, 89e:68095**

Zaionc, Marek The regular expression descriptions of unifier set in the typed λ-calculus. **89j:68105**

Zhil'tsova, L. P. Complexity of decoding deterministic context-free languages under generalized-prefix encoding. (Russian) **89m:94020**

Zwiers, Jakob ★ Compositionality, concurrency and partial correctness. **89d:68061**

68Q50 Grammars, rewriting systems

Anisimov, A. V. (*with* Oleshchuk, V. A.) Church-Rosser systems with respect to formal languages. (Russian. English summary) **89f:68037**

Arnborg, Stefan *see* **Tidén, Erik, 89a:68141**

Bachmair, Leo (*with* Dershowitz, Nachum) Critical pair criteria for completion. **89j:68087**

Bauderon, Michel (*with* Courcelle, Bruno) Graph expressions and graph rewritings. **89f:68038**

Benanav, Dan (*with* Kapur, Deepak; Narendran, Paliath) Complexity of matching problems. **89a:68131**

Benninghofen, Benjamin (*with* Kemmerich, S.; Richter, Michael M.) ★ Systems of reductions. **89a:68132**

Boehm, Paul (*with* Fonio, Harald-Reto; Habel, Annegret) Amalgamation of graph transformations: a synchronization mechanism. **89e:68070**

Boonyavatana, R. (*with* Slutzki, Giora) The interchange or pump (di)lemmas for context-free languages. **89i:68073**

Bousdira, Wadoud A completion procedure for hierarchical conditional rewriting systems. (*see* **89j:68002**)

— (*with* Rémy, Jean-Luc) Hierarchical contextual rewriting with several levels. **89c:68067**

Brandenburg, Franz-J. On polynomial time graph grammars. **89c:68068**

Bucher, Walter A note on regular classes in special Thue systems. **89k:68089**

Carpi, Arturo On unambiguous reductions of monoids of unambiguous relations. **89b:68043**

Ciucar, G. (*with* Păun, Gh.) On the syntactical complexity of pure languages. **89c:68069**

Comon, Hubert An effective method for handling initial algebras. (*see* **89j:68002**)

Courcelle, Bruno A representation of graphs by algebraic expressions and its use for graph rewriting systems. (*see* **89b:68009**)

— On context-free sets of graphs and their monadic second-order theory. (*see* **89b:68009**)

— An axiomatic definition of context-free rewriting and its application to NLC graph grammars. **89e:68071**

— An axiomatic definition of context-free rewriting and its application to NLC graph grammars. **89c:68070**

— *see also* **Bauderon, Michel, 89f:68038**

Csuhaj-Varjú, E. A connection between descriptional complexity of context-free grammars and grammar form theory. **89c:68071**

Dai, Ru Wei The relations between variables of an attribute grammar. (Chinese. English summary) (Not in MR)

Dassow, Jürgen Subregularly controlled derivations: context-free case. **89j:68088**

Dencker, Peter ★ Generative attributierte Grammatiken. (German) [Generative attribute grammars] **89e:68072**

Dershowitz, Nachum (*with* Okada, Mitsuhiro; Sivakumar, G.) Canonical conditional rewrite systems. (*see* **89c:68004**)

— (*with* Marcus, Leo; Tarlecki, A.) Existence, uniqueness, and construction of rewrite systems. **89k:68090**

— *see also* **Bachmair, Leo, 89j:68087**

Echahed, Rachid On completeness of narrowing strategies. **89e:68073**

Ehrenfeucht, Andrzej (*with* Hoogeboom, H. J.; Rozenberg, Grzegorz) On the active and full use of memory in right-boundary grammars and push-down automata. **89a:68133**

Ehrig, H. Tutorial introduction to the algebraic approach of graph grammars. (*see* **89b:68009**)

— *see also* **Parisi-Presicce, Francesco; et al.,** (**89b:68009**)

Engelfriet, Joost (*with* Leih, George; Rozenberg, Grzegorz) Apex graph grammars. (*see* **89b:68009**)

— (*with* Vogler, Heiko) High level tree transducers and iterated pushdown tree transducers. **89j:68089**

— (*with* Leih, George) Nonterminal bounded NLC graph grammars. **89j:68090**

Filé, Gilberto Classical and incremental attribute evaluation by means of recursive procedures. **89i:68074**

Fonio, Harald-Reto *see* **Boehm, Paul; et al., 89e:68070**

Foret, Annie Rewrite rule systems for modal propositional logic. (*see* **89j:68002**)

Friedman, Joyce *see* **Rounds, William C.; et al., 89i:68078**

Gallier, Jean H. (*with* Narendran, Paliath; Plaisted, D. A.; Raatz, Stan; Snyder, Wayne) Finding canonical rewriting systems equivalent to a finite set of ground equations in polynomial time. (*see* **89c:68004**)

— *see also* **Pelin, Alex, 89k:68092**

Giancarlo, Raffaele *see* **Rytter, Wojciech, 89a:68139**

Giegerich, Robert Composition and evaluation of attribute coupled grammars. **89i:68075**

Gnaedig, Isabelle (*with* Kirchner, Claude; Kirchner, Hélène) Equational completion in order-sorted algebras (extended abstract). (*see* **89c:68003**)

Goguen, Joseph A. (*with* Kirchner, Claude; Meseguer, José) Concurrent term rewriting as a model of computation. **89a:68134**

(**Goos, Gerhard**) *see* **Dencker, Peter, 89e:68072**

Grabska, Ewa (*with* Skrzyńska, Maria) Construction and equivalency problem for one-terminal-step graph-grammars. (Russian and Polish summaries) **89h:68092**

Habel, Annegret (*with* Kreowski, Hans-Jörg) May we introduce to you: hyperedge replacement. (*see* **89b:68009**)

— (*with* Kreowski, Hans-Jörg) Characteristics of graph languages generated by edge replacement. **89a:68135**

— *see also* **Boehm, Paul; et al., 89e:68070**

Hikita, Teruo *see* **Yokouchi, Hirofumi,** (**89i:68001**)

Hofbauer, Dieter (*with* Kutsche, Ralf-Detlef) Proving inductive theorems based on term rewriting systems. (*see* **89j:68002**)

Hoffmann, Berthold (*with* Plump, Detlef) Jungle evaluation for efficient term rewriting. (*see* **89j:68002**)

Hoogeboom, H. J. *see* **Ehrenfeucht, Andrzej; et al., 89a:68133**

Horváth, Gy. *see* **Meduna, A., 89i:68076**

Hussmann, Heinrich Nondeterministic algebraic specifications and nonconfluent term rewriting. (*see* **89j:68002**)

Jeffs, Janice Embedding rule independent theory of graph grammars. (*see* **89b:68009**)

Jensen, Karen Binary rules and nonbinary trees: breaking down the concept of phrase structure. (*see* **89a:68006**)

Joshi, Aravind K. An introduction to tree adjoining grammars. (*see* **89a:68006**)

Jürgensen, H. (*with* Lindenmayer, Aristid) Inference algorithms for developmental systems with cell lineages. **89h:68093**

Kandulski, Maciej The equivalence of nonassociative Lambek categorial grammars and context-free grammars. **89j:68091**

— Phrase structure languages generated by categorial grammars with product. **89j:68092**

Kanivets, V. A. (*with* Lisovik, L. P.) Equivalence problems for A-transformers. (Russian) (*see* **89k:68003**)

Kaplan, Stéphane Simplifying conditional term rewriting systems: unification, termination and confluence. **89d:68049**

Kapur, Deepak (*with* Narendran, Paliath; Zhang, Hantao) On sufficient-completeness and related properties of term rewriting systems. **89a:68136**

— (*with* Musser, David R.; Narendran, Paliath) Only prime superpositions need be considered in the Knuth-Bendix completion procedure. **89j:68093**

— *see also* **Benanav, Dan; et al., 89a:68131**

Kemmerich, S. *see* **Benninghofen, Benjamin; et al., 89a:68132**

Kennaway, J. Richard On "On graph rewritings" [Theoret. Comput. Sci. **32** (1984), no. 1-2, 1–24; MR 86h:68102] by J.-C. Raoult. **89a:68137**

— Corrigendum: "On 'On graph rewritings' by J.-C. Raoult" [Theoret. Comput. Sci. **52** (1987), no. 1-2, 37–58; MR 89a:68137]. **89k:68091**

Kirchner, Claude *see* **Goguen, Joseph A.; et al., 89a:68134** *and* **Gnaedig, Isabelle; et al.,** (**89c:68003**)

Kirchner, Hélène *see* **Gnaedig, Isabelle; et al.,** (**89c:68003**)

Kleijn, H. C. M. Basic ideas of selective substitution grammars. **89c:68072**

Klop, Jan Willem (*with* Middeldorp, Aart) An introduction to Knuth-Bendix completion. **89m:68081**

Kobuchi, Youichi *see* **Nishida, Taishin, 89g:68041**

Kreowski, Hans-Jörg Is parallelism already concurrency? I. Derivations in graph grammars. (*see* **89b:68009**)

— (*with* Wilharm, Anne) Is parallelism already concurrency? II. Nonsequential processes in graph grammars. (*see* **89b:68009**)

— *see also* **Habel, Annegret, 89a:68135** *and* (**89b:68009**)

Kucherov, G. A. A new quasi-reducibility testing algorithm and its application to proofs by induction. (*see* **89j:68002**)

Kutsche, Ralf-Detlef *see* **Hofbauer, Dieter,** (**89j:68002**)

Leih, George *see* **Engelfriet, Joost, 89j:68090** *and* (**89b:68009**)

Lindenmayer, Aristid *see* **Jürgensen, H., 89h:68093**

Lisovik, L. P. *see* **Kanivets, V. A.,** (**89k:68003**)

Liu, Bo Ying *see* **Zhou, Yu Qing, 89h:68096**

Main, Michael G. (*with* Rozenberg, Grzegorz) Fundamentals of edge-label controlled graph grammars. (*see* **89b:68009**)

Makarov, V. N. A practical method for the optimization of LR(1)-parsers. (Not in MR)

Manaster-Ramer, Alexis *see* **Rounds, William C.; et al., 89i:68078**

Marcus, Leo *see* **Dershowitz, Nachum; et al., 89k:68090**

Marsh, William Graphs and grammars. (*see* **89a:68006**)

Martin, Ursula Extension functions for multiset orderings. **89m:68082**

Meduna, A. (*with* Horváth, Gy.) On state grammars. **89i:68076**

Meseguer, José *see* **Goguen, Joseph A.; et al., 89a:68134**

Middeldorp, Aart *see* **Klop, Jan Willem, 89m:68081**

Montanari, Ugo *see* **Parisi-Presicce, Francesco; et al.,** (**89b:68009**)

Moser, Louise E. A decision procedure for unquantified formulas of graph theory. (*see* **89c:68004**)

Musser, David R. *see* **Kapur, Deepak; et al., 89j:68093**

Narendran, Paliath *see* **Benanav, Dan; et al., 89a:68131; Kapur, Deepak; et al., 89a:68136; 89j:68093** *and* **Gallier, Jean H.; et al.,** (**89c:68004**)

Nepomnyashchaya, A. Sh. Realization of a syntactic analysis algorithm for a class of context-free grammars that generate nondeterministic languages. (Russian) (*see* **89a:00010**)

Nishida, Taishin (*with* Kobuchi, Youichi) Repeatable words for substitution. **89g:68041**

— A distributed rewriting system in a cellular space. (*see* **89i:68001**)

Okada, Mitsuhiro *see* **Dershowitz, Nachum; et al.,** (**89c:68004**)

Oleshchuk, V. A. *see* **Anisimov, A. V., 89f:68037**

Orman, Gabriel V. New combinatorial aspects of some derivational functions. (Romanian summary) **89j:68094**

Otto, Friedrich On deciding the confluence of a finite string-rewriting system on a given congruence class. **89a:68138**

— Finite canonical rewriting systems for congruences generated by concurrency relations. **89e:68074**

— *see also* **Benninghofen, Benjamin; et al., 89a:68132**

Parisi-Presicce, Francesco (*with* Ehrig, H.; Montanari, Ugo) Graph rewriting with unification and composition. (*see* **89b:68009**)

Păun, Gh. Some recent restrictions in the derivation of context-free grammars. **89b:68044**

— *see also* **Ciucar, G., 89c:68069**

Pelin, Alex (*with* Gallier, Jean H.) Building exact computation sequences. **89k:68092**

Plaisted, D. A. *see* **Gallier, Jean H.; et al.,** (**89c:68004**)

Plump, Detlef *see* **Hoffmann, Berthold,** (**89j:68002**)

Raatz, Stan *see* **Gallier, Jean H.; et al.,** (**89c:68004**)

Rangarajan, K. (*with* Shyamasundar, R. K.) Parallel rewriting systems and Petri nets. **89i:68077**

(**Raoult, J.-C.**) *see* **Kennaway, J. Richard, 89a:68137** *and* **89k:68091**

Red'ko, I. V. An algebraic characterization of a class of tabular transformations. (Russian) (*see* **89k:68003**)

Rémy, Jean-Luc *see* **Bousdira, Wadoud, 89c:68067**

Richter, Michael M. *see* **Benninghofen, Benjamin; et al., 89a:68132**

Roach, Kelly Formal properties of head grammars. **89h:68094**

Rounds, William C. (*with* Manaster-Ramer, Alexis; Friedman, Joyce) Finding natural languages a home in formal language theory. **89i:68078**

Rozenberg, Grzegorz An introduction to the NLC way of rewriting graphs. (*see* **89b:68009**)

— *see also* **Ehrenfeucht, Andrzej; et al., 89a:68133; Engelfriet, Joost; et al.,** (**89b:68009**) *and* **Main, Michael G.,** (**89b:68009**)

Rusinowitch, Michael Path of subterms ordering and recursive decomposition ordering revisited. **89h:68095**

Rytter, Wojciech (*with* Giancarlo, Raffaele) Optimal parallel parsing of bracket languages. **89a:68139**

Seidl, Helmut Parameter-reduction of higher level grammars (extended abstract). (*see* **89c:68003**)
Seité, B. A YACC extension for LRR grammar parsing. **89a:68140**
Serebryakov, V. A. Attribute translation of logical expressions. (Russian) (Not in MR)
Shu, Lan The relationship between fuzzy type-3 grammars and fuzzy finite-state automata. (Chinese) (Not in MR)
Shyamasundar, R. K. *see* **Rangarajan, K., 89i:68077**
Sivakumar, G. *see* **Dershowitz, Nachum; et al., (89c:68004)**
Skrzyńska, Maria *see* **Grabska, Ewa, 89h:68092**
Slutzki, Giora *see* **Boonyavatana, R., 89i:68073**
Snyder, Wayne *see* **Gallier, Jean H.; et al., (89c:68004)**
Soisalon-Soininen, Eljas (*with* Tarhio, Jorma) Looping LR parsers. **89f:68039**
Spivey, J. M. ★ Understanding Z. **89f:68040**
Takada, Yuji^2 Grammatical inference for even linear languages based on control sets. **89f:68041**
Tarhio, Jorma *see* **Soisalon-Soininen, Eljas, 89f:68039**
Tarlecki, A. *see* **Dershowitz, Nachum; et al., 89k:68090**
Tidén, Erik (*with* Arnborg, Stefan) Unification problems with one-sided distributivity. **89a:68141**
Velinov, Yu. P. An algebraic structure for derivations in rewriting systems. **89i:68079**
Vogler, Heiko *see* **Engelfriet, Joost, 89j:68089**
Welzl, Emo Boundary NLC and partition controlled graph grammars. (*see* **89b:68009**)
Wilharm, Anne *see* **Kreowski, Hans-Jörg, (89b:68009)**
Yokouchi, Hirofumi (*with* Hikita, Teruo) A rewriting system for categorical combinators with multiple arguments. (*see* **89i:68001**)
Zhang, Hantao *see* **Kapur, Deepak; et al., 89a:68136**
Zhou, Yu Qing (*with* Liu, Bo Ying) The BMP optimizing algorithm for LR(k) syntactic parsing. (Chinese. English summary) **89h:68096**

Items with secondary classifications in 68Q50

Aalbersberg, IJsbrand Jan (*with* Engelfriet, Joost; Rozenberg, Grzegorz) Restricting the complexity of regular DNLC languages. (*see* **89b:68009**)
Aït-Kaci, Hassan An algebraic semantics approach to the effective resolution of type equations. **89c:68073**
Autebert, Jean-Michel (*with* Boasson, Luc; Sénizergues, Géraud) Groups and NTS languages. **89a:68114**
(Ayers, K.) *see* **Brandenburg, Franz-J., 89d:68039**
Barendregt, H. P. (*with* van Eekelen, M. C. J. D.; Plasmeijer, M. J.; Glauert, J. R. W.; Kennaway, J. Richard; Sleep, M. R.) LEAN: an intermediate language based on graph rewriting. (*see* **89j:68053**)
Benninghofen, Benjamin (*with* Richter, Michael M.) An application of nonstandard methods to computational group theory. (*see* **89m:03060**)
Boasson, Luc *see* **Autebert, Jean-Michel; et al., 89a:68114**
Bockmayr, Alexander A note on a canonical theory with undecidable unification and matching problem. **89d:68076**
de Boer, Martin J. M. (*with* Lindenmayer, Aristid) Map OL-systems with edge label control: comparison of marker and cyclic systems. (*see* **89b:68009**)
Bordihn, Henning On deterministic grammars with valuations. **89m:68074**
Brandenburg, Franz-J. A note on: "Deque automata and a subfamily of context-sensitive languages which contains all semilinear bounded languages" [Theoret. Comput. Sci. **40** (1985), no. 2-3, 163–174; MR 87j:68065] by K. Ayers. **89d:68039**
Buth, Bettina (*with* Buth, Karl-Heinz) Correctness proofs for META IV written code generator specifications using term rewriting. (*see* **89m:68093**)
Buth, Karl-Heinz *see* **Buth, Bettina, (89m:68093)**
Courcelle, Bruno Proofs of partial correctness for iterative and recursive computations. **89g:68045**
Dassow, Jürgen Pure languages of regulated rewriting and their codings. **89e:68065**
— Convexity and simplicity of chain code picture languages. **89j:68147**
Ebergen, J. C. ★ Translating programs into delay-insensitive circuits. **89m:68027**
van Eekelen, M. C. J. D. *see* **Barendregt, H. P.; et al., (89j:68053)**
Ehrenfeucht, Andrzej (*with* Hoogeboom, H. J.; Rozenberg, Grzegorz) Recording the use of memory in right-boundary grammars and push-down automata. **89d:68041**
Engelfriet, Joost (*with* Vogler, Heiko) Look-ahead on pushdowns. **89g:68037**
— *see also* **Aalbersberg, IJsbrand Jan; et al., (89b:68009)**
Gille, Jean-Charles *see* **Vidal, Pierre; et al., 89a:92029**
Glauert, J. R. W. *see* **Barendregt, H. P.; et al., (89j:68053)**
(Grabowski, Jan) *see* **Algebraic and logic programming, 89j:68002**
Hansen, Horst (*with* Löwe, Michael) Modular algebraic specifications. (*see* **89j:68002**)
Head, Tom (*with* Lando, Barbara) Bounded DOL languages. **89g:68038**
Hirokawa, Sachio *see* **Sekimoto, Shoji, 89h:68035**
Hoogeboom, H. J. *see* **Ehrenfeucht, Andrzej; et al., 89d:68041**
Horváth, Sándor (*with* Kinber, Efim; Salomaa, Arto; Yu, Sheng) Decision problems resulting from grammatical inference. **89f:68034**
Joshi, Aravind K. *see* **Vijay-Shanker, K.; et al., (89a:68006)**
Kandri-Rody, Abdelilah (*with* Kapur, Deepak) Computing a Gröbner basis of a polynomial ideal over a Euclidean domain. **89h:13002**
Kankaanpää, T. *see* **Kurki-Suonio, R., 89h:68128**
Kapur, Deepak *see* **Kandri-Rody, Abdelilah, 89h:13002** *and* **Zhang, Hantao, (89c:68004)**
Kelemen, Jozef Measuring cognitive resources use (a grammatical approach). (Russian summary) **89m:92055**
Kennaway, J. Richard *see* **Barendregt, H. P.; et al., (89j:68053)**
Kinber, Efim *see* **Horváth, Sándor; et al., 89f:68034**
Kudo, Mineichi (*with* Shimbo, Masaru) Efficient regular grammatical inference techniques by the use of partial similarities and their logical relationships. **89e:68106**
Kulyabko, P. P. The hierarchy principle in the concept of control spaces. (Russian) (*see* **89j:68011**)
Kurki-Suonio, R. (*with* Kankaanpää, T.) On the design of reactive systems. **89h:68128**
Lando, Barbara *see* **Head, Tom, 89g:68038**
(Lescanne, Pierre) *see* **Algebraic and logic programming, 89j:68002**
Le Thanh Hai (*with* Nguyen Quang Minh) The classes of languages can be identified in the limit from text presentations. (Hungarian summary) **89j:68082**
Lindenmayer, Aristid *see* **de Boer, Martin J. M., (89b:68009)**
Łoboda, M. A note on canonical systems with control sets. (Russian and Polish summaries) **89g:68040**
Löwe, Michael *see* **Hansen, Horst, (89j:68002)**
Main, Michael G. (*with* Rozenberg, Grzegorz) Handle NLC grammars and R.E. languages. **89a:68121**
McNaughton, Robert (*with* Narendran, Paliath; Otto, Friedrich) Church-Rosser Thue systems and formal languages. **89e:68068**
Meduna, A. Characterization of the Chomsky hierarchy through sequential-parallel grammars. **89d:68045**
Mezník, Ivan On some structural properties of a subclass of ∞-regular languages. **89a:68123**
Nagashima, Takashi A formal deductive system for CFG. **89e:03065**
Narendran, Paliath (*with* Otto, Friedrich) Elements of finite order for finite weight-reducing and confluent Thue systems. **89k:03043**
— *see also* **McNaughton, Robert; et al., 89e:68068**
Neumüller, Imre The invertibility of tree transducers. **89k:68106**
Nguyen Quang Minh *see* **Le Thanh Hai, 89j:68082**
Novotný, Miroslav *see* **Păun, Gh., 89a:68124**
Orman, Gabriel V. A random variable connected with the process of generation of the words. (Romanian summary) **89m:68078**
Otto, Friedrich The undecidability of self-embedding for finite semi-Thue and Thue systems. **89b:03060**
— *see also* **McNaughton, Robert; et al., 89e:68068** *and* **Narendran, Paliath, 89k:03043**
Pandya, Paritosh (*with* Rangarajan, K.; Subramanian, K. G.) Level-fair derivations in context-free rewriting systems. **89d:68046**
Păun, Gh. (*with* Novotný, Miroslav) On some parameters occurring in certain effective constructions of grammars. **89a:68124**
Plasmeijer, M. J. *see* **Barendregt, H. P.; et al., (89j:68053)**
Ramakrishnan, I. V. *see* **Verma, Rakesh M., (89c:68004)**
Rangarajan, K. *see* **Pandya, Paritosh; et al., 89d:68046**
Richter, Michael M. *see* **Benninghofen, Benjamin, (89m:03060)**
Rozenberg, Grzegorz *see* **Main, Michael G., 89a:68121; Ehrenfeucht, Andrzej; et al., 89d:68041** *and* **Aalbersberg, IJsbrand Jan; et al., (89b:68009)**
Rydeheard, D. E. (*with* Stell, J. G.) Foundations of equational deduction: a categorical treatment of equational proofs and unification algorithms. **89a:03023**
Salomaa, Arto Markov algorithms as language-defining devices. **89a:68126**
— *see also* **Horváth, Sándor; et al., 89f:68034**
Savitch, Walter J. Theories of language learnability. **89e:68102**
Schnoebelen, Ph. Refined compilation of pattern-matching for functional languages. **89k:68011**
Sekimoto, Shoji (*with* Hirokawa, Sachio) One-step recurrent terms in λ-β-calculus. **89h:68035**
Sénizergues, Géraud *see* **Autebert, Jean-Michel; et al., 89a:68114**
Shimbo, Masaru *see* **Kudo, Mineichi, 89e:68106**
Siromoney, Rani Advances in array languages. (*see* **89b:68009**)
Sleep, M. R. *see* **Barendregt, H. P.; et al., (89j:68053)**
Stell, J. G. *see* **Rydeheard, D. E., 89a:03023**
Subramanian, K. G. *see* **Pandya, Paritosh; et al., 89d:68046**
Tuza, Zsolt On the context-free production complexity of finite languages. **89a:68130**
Verma, Rakesh M. (*with* Ramakrishnan, I. V.) Optimal time bounds for parallel term matching. (*see* **89c:68004**)
Vidal, Pierre (*with* Gille, Jean-Charles; Węgrzyn, Stefan) Mot génétique de système évolutif et programme d'ADN. (English and Russian summaries) [Genetic word of a developmental system and DNA program] **89a:92029**
Vijay-Shanker, K. (*with* Weir, David J.; Joshi, Aravind K.) On the progression from context-free to tree adjoining languages. (*see* **89a:68006**)
Vogler, Heiko The OI-hierarchy is closed under control. **89m:68080**
— *see also* **Engelfriet, Joost, 89g:68037**
(Wechler, Wolfgang) *see* **Algebraic and logic programming, 89j:68002**
Węgrzyn, Stefan *see* **Vidal, Pierre; et al., 89a:92029**
Weir, David J. *see* **Vijay-Shanker, K.; et al., (89a:68006)**
Yokomori, Takashi On purely morphic characterizations of context-free languages. **89c:68066**
Yu, Sheng *see* **Horváth, Sándor; et al., 89f:68034**
Zaionc, Marek The regular expression descriptions of unifier set in the typed λ-calculus. **89j:68105**
Zhang, Hantao (*with* Kapur, Deepak) First-order theorem proving using conditional rewrite rules. (*see* **89c:68004**)

Items listed otherwise than by author

Algebraic and logic programming ★ Algebraic and logic programming. **89j:68002**
Gaussig ★ Algebraic and logic programming. **89j:68002**
Workshop:
  Algebraic and Logic Programming ★ Algebraic and logic programming. **89j:68002**

68Q55 Semantics

Abramsky, Samson Observation equivalence as a testing equivalence. **89f:68042**
Aceto, Luca (*with* De Nicola, Rocco; Fantechi, Alessandro) Testing equivalences for event structures. **89a:68142**
Aït-Kaci, Hassan An algebraic semantics approach to the effective resolution of type equations. **89c:68073**
America, Pierre (*with* de Bakker, J. W.) Designing equivalent semantic models for process creation. **89a:68143**
Anderson, James H. (*with* Gouda, Mohamed G.) Atomic semantics of nonatomic programs. (Not in MR)

de Bakker, J. W. (*with* Meyer, J.-J. Ch.) Order and metric in the stream semantics of elemental concurrency. **89a:68144**

— *see also* **America, Pierre, 89a:68143**

Bartha, Miklós A finite axiomatization of flowchart schemes. **89a:68145**

Bauer, Friedrich Ludwig (*with* Wirsing, M.) Crypt-equivalent algebraic specifications. **89e:68075**

— (*with* Möller, Bernhard; Partsch, Helmut; Pepper, Peter) Formal program construction by transformations—computer-aided, intuition-guided programming. (Not in MR)

Beierle, Christoph (*with* Pletat, Udo) Integrating logic programming and equational specification of abstract data types. (*see* **89j:68002**)

Benson, David B. (*with* Guessarian, Irène) Algebraic solutions to recursion schemes. **89d:68050**

van Benthem, Johan Towards a computational semantics. (*see* **89m:03003**)

Blum, Edward K. (*with* Ehrig, H.; Parisi-Presicce, Francesco) Algebraic specification of modules and their basic interconnections. **89g:68042**

— The semantics and complexity of parallel programs for vector computations. I. A case study using Ada. **89h:68097**

Boom, H. J. Lazy variable-renumbering makes substitution cheap. **89m:68083**

Brookes, Stephen D. Semantically based axiomatics. **89m:68084**

Bruce, Kim B. (*with* Riecke, Jon G.) The semantics of Miranda's algebraic types. **89h:68098**

Buĭ, D. B. (*with* Mavlyanov, A. V.) Mutual derivability of the operations of program algebras. I. **89e:68076**

Burn, Geoffrey *see* **Hankin, Chris; et al., 89i:68081**

Burstall, R. *see* **Lampson, B., 89b:68045**

Carboni, A. (*with* Freyd, Peter J.; Scedrov, Andre) A categorical approach to realizability and polymorphic types. **89g:68043**

Cardelli, Luca A semantics of multiple inheritance. **89k:68093**

Căzănescu, Virgil Emil On algebraic theories with iterate. **89j:68095**

Chisholm, Paul Derivation of a parsing algorithm in Martin-Löf's theory of types. **89a:68146**

Cohen, Jacques *see* **Hickey, Timothy, 89h:68101**

Coquand, Thierry (*with* Huet, Gérard) The calculus of constructions. **89j:68096**

Cousineau, G. (*with* Curien, P.-L.; Mauny, M.) The categorical abstract machine. **89a:68147**

Curien, P.-L. *see* **Cousineau, G.; et al., 89a:68147**

Dang Van Hung (*with* Knuth, Elöd) A noninterleaving semantics for communicating sequential processes: a fixed-point approach. **89h:68099**

Degano, Pierpaolo (*with* Marchetti, Sergio) Partial ordering models for concurrency can be defined operationally. **89m:68085**

— (*with* Montanari, Ugo) Concurrent histories: a basis for observing distributed systems. **89a:68148**

Delahaye, Jean-Paul Sémantique logique et dénotationnelle des interpréteurs PROLOG. (English summary) [Logical and denotational semantics of PROLOG interpreters] **89e:68077**

De Nicola, Rocco *see* **Aceto, Luca; et al., 89a:68142**

Doshita, Shuji *see* **Yamasaki, Susumu; et al., 89f:68047**

Duba, Bruce *see* **Felleisen, Matthias; et al., 89j:68097**

Ehrig, H. *see* **Blum, Edward K.; et al., 89g:68042**

Er, M. C. The weakest liberal preconditions of nondeterministic machines and robust programs. **89m:68086**

Ésik, Z. Independence of the equational axioms for iteration theories. **89k:68094**

Fantechi, Alessandro *see* **Aceto, Luca; et al., 89a:68142**

Felleisen, Matthias (*with* Friedman, Daniel P.; Kohlbecker, Eugene; Duba, Bruce) A syntactic theory of sequential control. **89j:68097**

Fischer, Michael (*with* Immerman, Neil) Interpreting logics of knowledge in propositional dynamic logic with converse. **89k:68095**

Fitting, Melvin Partial models and logic programming. **89d:68051**

— Logic programming on a topological bilattice. **89j:68098**

Francez, Nissim (*with* Katz, Shmuel) Fairness and the axioms of control predicates. (Not in MR)

Freyd, Peter J. *see* **Carboni, A.; et al., 89g:68043**

Friedman, Daniel P. *see* **Felleisen, Matthias; et al., 89j:68097**

Frutos Escrig, D. Probabilistic Ianov's schemes. **89i:68080**

Gerth, R. *see* **Huizing, C.; et al., 89e:68078**

Gouda, Mohamed G. *see* **Anderson, James H.**, (Not in MR)

Gray, John W. A categorical treatment of polymorphic operations. **89h:68100**

Guessarian, Irène Some fixpoint techniques in algebraic structures and applications to computer science. **89d:68052**

— (*with* Meseguer, José) On the axiomatization of "if-then-else". **89f:68043**

— *see also* **Benson, David B., 89d:68050**

Gupta, Lorene E. *see* **Hehner, Eric C. R.; et al., 89k:68096**

Hankin, Chris (*with* Burn, Geoffrey; Peyton Jones, Simon) A safe approach to parallel combinator reduction. **89i:68081**

Hehner, Eric C. R. (*with* Gupta, Lorene E.; Malton, Andrew J.) Erratum: "Predicative methodology" [Acta Inform. **23** (1986), no. 5, 487–505; MR 87k:68090]. **89k:68096**

Henson, Martin C. ★ Elements of functional languages. **89j:68099**

Hesselink, Wim H. Interpretations of recursion under unbounded nondeterminacy. **89i:68082**

Hickey, Timothy (*with* Cohen, Jacques) Automating program analysis. **89h:68101**

Hrbáček, Karel Convex powerdomains. I. **89c:68074**

Huet, Gérard *see* **Coquand, Thierry, 89j:68096**

Huizing, C. (*with* Gerth, R.; de Roever, W. P.) Modelling Statecharts behaviour in a fully abstract way. **89e:68078**

Il'ichëva, O. A. Semantics of quasi-identities that define models of constants. (Russian) **89d:68053**

Immerman, Neil *see* **Fischer, Michael, 89k:68095**

Jensen, Finn V. (*with* Larsen, Kim G.) Recursively defined domains and their induction principles. **89e:68079**

Jiang, Ming De On combinatory-logic essence of functions ρ and μ in FFP. **89m:68087**

Kamimura, Tsutomu (*with* Tang, Adrian) Continuous auxiliary relations. **89e:68080**

Kasami, Tadao *see* **Seki, Hiroyuki; et al., (89i:68001)**

Katz, Shmuel *see* **Francez, Nissim**, (Not in MR)

Kent, Robert E. The metric closure powerspace construction. **89k:68097**

Kiehn, Astrid On the interrelation between synchronized and nonsynchronized behaviour of Petri nets. (German and Russian summaries) **89i:68083**

Knuth, Elöd *see* **Dang Van Hung, 89h:68099**

Kohlbecker, Eugene *see* **Felleisen, Matthias; et al., 89j:68097**

Kröger, Fred ★ Temporal logic of programs. **89i:68084**

Lamarche, François A model for Coquand's theory of constructions. **89j:68100**

Lampson, B. (*with* Burstall, R.) Pebble, a kernel language for modules and abstract data types. **89b:68045**

Larsen, Kim G. Proof systems for Hennessy-Milner logic with recursion. **89e:68081**

— *see also* **Jensen, Finn V., 89e:68079**

Li, De Yi *see* **Liu, Dong Bo, (89j:68002)**

Li, Ren Wei The system $\mathscr{N}$: a natural time ordered deductive system. (Chinese) (Not in MR)

Liu, Dong Bo (*with* Li, De Yi) Fuzzy reasoning based on f-Horn clause rules. (*see* **89j:68002**)

Lomazova, I. A. An axiomatic semantics of programs that does not admit auxiliary effects. (Russian) **89c:68075**

Main, Michael G. Trace, failure and testing equivalences for communicating processes. **89h:68102**

Malton, Andrew J. *see* **Hehner, Eric C. R.; et al., 89k:68096**

Marchetti, Sergio *see* **Degano, Pierpaolo, 89m:68085**

Marek, W. A natural semantics for modal logic over databases. **89i:68085**

Martino, André A quantitative interpretation of Girard's system F. **89j:68101**

Mascari, Gianfranco (*with* Miola, Alfonso) On the integration of numeric and algebraic computations. **89k:68098**

Mauny, M. *see* **Cousineau, G.; et al., 89a:68147**

Mavlyanov, A. V. *see* **Buĭ, D. B., 89e:68076**

Mery, Dominique Méthode axiomatique pour les propriétés de fatalité des programmes parallèles. (English summary) [An axiomatic method for the eventuality properties of parallel programs] **89e:68082**

Meseguer, José *see* **Guessarian, Irène, 89f:68043**

Meyer, J.-J. Ch. *see* **de Bakker, J. W., 89a:68144**

Michel, Max (*with* Stefani, Jean-Bernard) Interval logics and sequential transducers. **89i:68086**

Miola, Alfonso *see* **Mascari, Gianfranco, 89k:68098**

Mirkowska, Grażyna (*with* Salwicki, Andrzej) On axiomatic definition of MAX-model of concurrency. **89a:68149**

Mishra, Prateek Strictness analysis of the untyped λ-calculus. **89h:68103**

Mislove, Michael On the Smyth power domain. **89i:68087**

Moggi, Eugenio Partial morphisms in categories of effective objects. **89i:68088**

Möller, Bernhard *see* **Bauer, Friedrich Ludwig; et al.**, (Not in MR)

Montanari, Ugo *see* **Degano, Pierpaolo, 89a:68148**

Nait Abdallah, Mohand-Areski Fair derivations in logic programming: operational and greatest fixpoint semantics. **89j:68102**

Nepomnyashchiĭ, V. A. (*with* Shilov, N. V.) Schemes for nondeterministic programs and their relation to dynamic logic. **89i:68089**

Nielson, Flemming (*with* Nielson, Hanne Riis) Two-level semantics and code generation. **89i:68090**

Nielson, Hanne Riis *see* **Nielson, Flemming, 89i:68090**

Nikitchenko, N. S. Semantic construction of programs by means of linking compositions. (Russian) (Not in MR)

Nipkow, Tobias Unification in primal algebras. **89h:68104**

Panangaden, Prakash *see* **Widom, Jennifer, 89e:68084**

Parisi-Presicce, Francesco *see* **Blum, Edward K.; et al., 89g:68042**

Parpucea, Ilie The HAS hierarchy and the extensibility of the programming languages. (Romanian summary) (Not in MR)

Partsch, Helmut *see* **Bauer, Friedrich Ludwig; et al.**, (Not in MR)

Pasztor, Ana Nonstandard logics of recursive programs and denotational semantics. (*see* **89j:68002**)

Peleg, David Concurrent program schemes and their logics. **89m:68088**

Penczek, Wojciech A temporal logic for event structures. **89i:68091**

Pepper, Peter A simple calculus for program transformation (inclusive of induction). **89g:68044**

— *see also* **Bauer, Friedrich Ludwig; et al.**, (Not in MR)

Peyton Jones, Simon *see* **Hankin, Chris; et al., 89i:68081**

Pletat, Udo *see* **Beierle, Christoph, (89j:68002)**

Reed, G. M. (*with* Roscoe, A. W.) Metric spaces as models for real-time concurrency. **89j:68103**

Reichel, Horst Behavioural program specification. **89f:68044**

Reiterman, Jan *see* **Trnková, Věra, 89k:68099**

Révész, György E. Rule-based semantics for an extended lambda-calculus. **89i:68092**

Riecke, Jon G. *see* **Bruce, Kim B., 89h:68098**

Robinson, Edmund Logical aspects of denotational semantics. **89m:68089**

de Roever, W. P. *see* **Huizing, C.; et al., 89e:68078**

Roscoe, A. W. *see* **Reed, G. M., 89j:68103**

Sakakibara, Yasubumi On semantics of logic programs with uncertainties. (Not in MR)

Salwicki, Andrzej *see* **Mirkowska, Grażyna, 89a:68149**

Scedrov, Andre *see* **Carboni, A.; et al., 89g:68043**

Seki, Hiroyuki (*with* Taniguchi, Kenichi; Kasami, Tadao) On operational semantics of congruence relation defined in algebraic language ASL/*. (*see* **89i:68001**)

Shilov, N. V. *see* **Nepomnyashchiĭ, V. A., 89i:68089**

Smyth, M. B. Quasi-uniformities: reconciling domains with metric spaces. **89m:68090**

Spreen, Dieter Computable one-to-one enumerations of effective domains. **89f:68045**

Ştefănescu, Gh. On flowchart theories. II. The nondeterministic case. **89c:68076**

Stefani, Jean-Bernard *see* **Michel, Max, 89i:68086**

Stoughton, Allen Substitution revisited. **89j:68104**

Tang, Adrian *see* **Kamimura, Tsutomu, 89e:68080**
Taniguchi, Kenichi *see* **Seki, Hiroyuki; et al.**, (**89i:68001**)
Tătar, Doina On monadic schemes. (Romanian. English summary) **89a:68150**
Trakhtenbrot, B. A. On "logical relations" in program semantics. **89e:68083**
— *see also* **Concurrency, 89i:68093**
Trnková, Věra (*with* Reiterman, Jan) Dynamic algebras with test. **89k:68099**
Wagner, E. G. A categorical treatment of pre- and post-conditions. **89f:68046**
Widom, Jennifer (*with* Panangaden, Prakash) Expressiveness bounds for completeness in trace-based network proof systems. **89e:68084**
Wirsing, M. *see* **Bauer, Friedrich Ludwig, 89e:68075**
Yamasaki, Susumu (*with* Yoshida, Mikio; Doshita, Shuji) A fixpoint semantics of Horn sentences based on substitution sets. **89f:68047**
Yoshida, Mikio *see* **Yamasaki, Susumu; et al., 89f:68047**
Zaionc, Marek The regular expression descriptions of unifier set in the typed λ-calculus. **89j:68105**
Zhuravlev, V. E. On the semantics of electronic tables. (Russian) (Not in MR)

Items listed otherwise than by author

Concurrency ★ Concurrency. **89i:68093**
Special issue:
Concurrency ★ Concurrency. **89i:68093**

Items with secondary classifications in 68Q55

Aiba, Akira Relative efficiencies of reduction machines. **89e:68041**
Amir, Amihood The Martian chronicles or To build a tense system. **89h:68123**
— Expressive completeness failure in branching time structures. **89a:03026**
Astesiano, Egidio (*with* Giovini, Alessandro; Reggio, Gianna) Generalized bisimulation in relational specifications. (*see* **89b:68011**)
de Bakker, J. W. (*with* Meyer, J.-J. Ch.; Olderog, E.-R.; Zucker, J. I.) Transition systems, metric spaces and ready sets in the semantics of uniform concurrency. **89i:68034**
Barendregt, H. P. (*with* Kennaway, J. Richard; Klop, Jan Willem; Sleep, M. R.) Needed reduction and spine strategies for the lambda calculus. **89h:03020**
Bates, J. L. *see* **Constable, R. L.; et al., 89i:68113**
Bergstra, J. A. (*with* Klop, Jan Willem) A universal axiom system for process specification. **89j:68044**
Best, Eike (*with* Devillers, Raymond) Sequential and concurrent behaviour in Petri net theory. **89d:68064**
— (*with* Fernández, César) ★ Nonsequential processes. **89i:68035**
Bloom, Stephen L. (*with* Tindell, Ralph) A note on zero-congruences. **89e:18011**
Boreĭsha, Yu. E. Means of interaction of asynchronous parallel processes. (Russian) (*see* **89j:68011**)
Borzyszkowski, Andrzej (*with* Kubiak, Ryszard; Sokołowski, Stefan Andrzej) A set-theoretic model for a typed polymorphic lambda calculus. A contribution to MetaSoft. (*see* **89m:68093**)
Browne, M. C. (*with* Clarke, E. M.; Grümberg, O.) Characterizing finite Kripke structures in propositional temporal logic. **89k:03030**
Broy, Manfred Views of queues. **89m:68094**
Clarke, E. M. *see* **Browne, M. C.; et al., 89k:03030**
Constable, R. L. (*with* Knoblock, T. B.; Bates, J. L.) Writing programs that construct proofs. **89i:68113**
Coquand, Thierry (*with* Ehrhard, Thomas) An equational presentation of higher order logic. **89k:03006**
Costa, Gerardo (*with* Stirling, Colin) Weak and strong fairness in CCS. **89g:68013**
Courcelle, Bruno (*with* Gallier, Jean H.) Decidable subcases of the equivalence problem for recursive program schemes. (French summary) **89j:68054**
Dantsin, E. Ya. The algorithmics of the satisfiability problem. (Russian) **89h:03012**
Dauchet, M. (*with* Timmerman, E.) Continuous monoids and yields of infinite trees. (French summary) **89a:68050**
Dencker, Peter ★ Generative attributierte Grammatiken. (German) [Generative attribute grammars] **89e:68072**
Desclés, Jean-Pierre (*with* Ginisti, Jean-Pierre) Bibliographie commentée. [Annotated bibliography] **89k:03014**
Devillers, Raymond *see* **Best, Eike, 89d:68064**
Ebergen, J. C. ★ Translating programs into delay-insensitive circuits. **89m:68027**
Ehrhard, Thomas *see* **Coquand, Thierry, 89k:03006**
Emerson, E. Allen (*with* Lei, Chin-Laung) Modalities for model checking: branching time logic strikes back. **89h:68106**
Engeler, Erwin Cumulative logic programs and modelling. **89g:03016**
Fagin, Ronald (*with* Halpern, Joseph Y.) I'm OK if you're OK: on the notion of trusting communication. **89m:68034**
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Fernández, César *see* **Best, Eike, 89i:68035**
Filé, Gilberto Classical and incremental attribute evaluation by means of recursive procedures. **89i:68074**
Fitting, Melvin ★ Computability theory, semantics, and logic programming. **89e:68027**
Fortenbacher, Albrecht An algebraic approach to unification under associativity and commutativity. **89i:68114**
Gallier, Jean H. *see* **Courcelle, Bruno, 89j:68054**
Gibbins, P. F. VDM: axiomatising its propositional logic. **89k:03020**
Gibert, Jacek Functional programming with combinators. **89a:68019**
Giegerich, Robert Composition and evaluation of attribute coupled grammars. **89i:68075**
Ginisti, Jean-Pierre *see* **Desclés, Jean-Pierre, 89k:03014**
Giovini, Alessandro *see* **Astesiano, Egidio; et al.**, (**89b:68011**)
Girard, Jean-Yves Le lambda-calcul du second ordre. [The second-order lambda-calculus] **89i:03028**
Golson, William G. Toward a declarative semantics for infinite objects in logic programming. **89c:68089**
Goltz, Hans-Joachim Functional data term models and semantic unification. (*see* **89j:68002**)
(Goos, Gerhard) *see* **Dencker, Peter, 89e:68072**
(Grabowski, Jan) *see* **Algebraic and logic programming, 89j:68002**
Gribomont, E. Pascal Proving systolic arrays. **89e:68097**
Grümberg, O. *see* **Browne, M. C.; et al., 89k:03030**
Guessarian, Irène (*with* Niar-Dinedane, Wafaa) An automaton characterization of fairness in SCCS. **89c:68029**
Hagino, Tatsuya A typed lambda calculus with categorical type constructors. **89e:03021**
Halpern, Joseph Y. *see* **Fagin, Ronald, 89m:68034**
Haxthausen, Anne Elisabeth Mutually recursive algebraic domain equations. (*see* **89m:68093**)
Hehner, Eric C. R. Real-time programming. (Not in MR)
Hennessy, Matthew An algebraic theory of fair asynchronous communicating processes. **89b:68027**
Henschen, Lawrence *see* **McCune, William, 89i:68116**
Hoare, C. A. R. *see* **Roscoe, A. W., 89j:68051**
Hofbauer, Dieter (*with* Kutsche, Ralf-Detlef) Proving inductive theorems based on term rewriting systems. (*see* **89j:68002**)
Janicki, Ryszard A formal semantics for concurrent systems with a priority relation. **89h:68044**
Kasangian, Stefano (*with* Labella, Anna; Pettorossi, Alberto) Enriched categories for local and interaction calculi. **89f:68017**
Kawahara, Yasuo Applications of relational calculus to computer mathematics. **89c:68027**
Kelter, Udo Variants of determinacy in parallel program schemata. **89a:68065**
Kennaway, J. Richard *see* **Barendregt, H. P.; et al., 89h:03020**
Kfoury, A. J. (*with* Urzyczyn, P.) Concurrent program schemes. **89i:68038**
Klop, Jan Willem *see* **Barendregt, H. P.; et al., 89h:03020** *and* **Bergstra, J. A., 89j:68044**
Knoblock, T. B. *see* **Constable, R. L.; et al., 89i:68113**
Kranakis, Evangelos Fixed point equations with parameters in the projective model. **89h:68046**
Kreĭnovich, V. Ya. The semantics of S. Yu. Maslov's iterative method. (Russian) **89i:03019**
Kubiak, Ryszard *see* **Borzyszkowski, Andrzej; et al.**, (**89m:68093**)
Kunen, Kenneth Negation in logic programming. **89e:68109**
Kutsche, Ralf-Detlef *see* **Hofbauer, Dieter**, (**89j:68002**)
Labella, Anna (*with* Pettorossi, Alberto) Universal models in categories for process synchronization. **89a:68066**
— *see also* **Kasangian, Stefano; et al., 89f:68017**
Lau, Dietlinde Über abgeschlossene Mengen linearer Funktionen in mehrwertigen Logiken. (Russian summary) [On closed sets of linear functions in many-valued logics] **89k:03021**
Lei, Chin-Laung *see* **Emerson, E. Allen, 89h:68106**
(Lescanne, Pierre) *see* **Algebraic and logic programming, 89j:68002**
Lindenmayer, Aristid Models for multicellular development: characterization, inference and complexity of *L*-systems. **89c:68060**
Martini, Simone An interval model for second-order lambda calculus. **89g:03017**
McCarty, L. Thorne Clausal intuitionistic logic. I. Fixed-point semantics. **89g:03014a**
— Clausal intuitionistic logic. II. Tableau proof procedures. **89g:03014b**
McCune, William (*with* Henschen, Lawrence) Experiments with semantic paramodulation. **89i:68116**
McDill, J. M. (*with* Melton, A. C.; Strecker, G. E.) A category of Galois connections. **89e:18009**
Meersman, Robert (*with* Verlinden, P.) The binary semantic net formalism for the specification of database design and constraints, and its implementation. (Russian summary) (Not in MR)
Melton, A. C. *see* **McDill, J. M.; et al., 89e:18009**
Meyer, J.-J. Ch. *see* **de Bakker, J. W.; et al., 89i:68034**
Neumüller, Imre The invertibility of tree transducers. **89k:68106**
Niar-Dinedane, Wafaa *see* **Guessarian, Irène, 89c:68029**
Olderog, E.-R. *see* **de Bakker, J. W.; et al., 89i:68034**
Parisi-Presicce, Francesco Product and iteration of module specifications. **89e:68004**
Pettorossi, Alberto *see* **Labella, Anna, 89a:68066** *and* **Kasangian, Stefano; et al., 89f:68017**
Piperno, Adolfo A compositive abstraction algorithm for combinatory logic. **89g:03018**
Podlovchenko, R. I. The equivalence problem in commutative *s*-models of programs. (Russian) **89i:68008**
Reggio, Gianna *see* **Astesiano, Egidio; et al.**, (**89b:68011**)
Roscoe, A. W. (*with* Hoare, C. A. R.) The laws of Occam programming. **89j:68051**
Sakalauskaitė, Juratė Alternative propositional dynamic logic. (Russian. English and Lithuanian summaries) **89i:03052**
Seely, R. A. G. Categorical semantics for higher order polymorphic lambda calculus. **89g:03019**
Sleep, M. R. *see* **Barendregt, H. P.; et al., 89h:03020**
Sokołowski, Stefan Andrzej *see* **Borzyszkowski, Andrzej; et al.**, (**89m:68093**)
Stirling, Colin *see* **Costa, Gerardo, 89g:68013**
Strecker, G. E. *see* **McDill, J. M.; et al., 89e:18009**
Subrahmanian, V. S. On the semantics of quantitative logic programs. (*see* **89a:68009**)
Szałas, Andrzej Arithmetical axiomatization of first-order temporal logic. **89a:03062**
Szczerba, L. W. Rough quantifiers. (Russian summary) **89i:03051**
Thalheim, B. On semantic issues connected with keys in relational databases permitting null values. (Hungarian summary) **89i:68022**
Thiele, Helmut Searching and retrieval in databases by trees. (Hungarian summary) **89k:68035**
Timmerman, E. *see* **Dauchet, M., 89a:68050**
Tindell, Ralph *see* **Bloom, Stephen L., 89e:18011**
Tucker, J. V. (*with* Zucker, J. I.) ★ Program correctness over abstract data types, with error-state semantics. **89j:68108**
Turski, W. M. Time considered irrelevant for real-time systems. (Not in MR)
Urzyczyn, P. *see* **Kfoury, A. J., 89i:68038**
Velinov, Yu. P. An algebraic structure for derivations in rewriting systems. **89i:68079**
Verlinden, P. *see* **Meersman, Robert**, (Not in MR)
(Wechler, Wolfgang) *see* **Algebraic and logic programming, 89j:68002**
Zucker, J. I. *see* **de Bakker, J. W.; et al., 89i:68034** *and* **Tucker, J. V., 89j:68108**

Items listed otherwise than by author

Algebraic and logic programming ★ Algebraic and logic programming. **89j:68002**

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Gaussig ★ Algebraic and logic programming. **89j:68002**

Workshop:

  Algebraic and Logic Programming ★ Algebraic and logic programming. **89j:68002**

68Q60 Program verification

Apt, Krzysztof R. Proving correctness of concurrent programs: a quick introduction. (*see* **89m:68002**)

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(Bloomfield, R.) *see* **VDM '88. VDM—the way ahead, 89m:68093**

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Buth, Karl-Heinz *see* **Buth, Bettina**, (**89m:68093**)

Cockett, J. Robin B. Discrete decision theory: manipulations. **89h:68105**

Courcelle, Bruno Proofs of partial correctness for iterative and recursive computations. **89g:68045**

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Feng, Yu Lin Hierarchical protocol analysis by temporal logic. **89e:68085**

Garcia, Françoise Étude et implémentation d'un système de déduction pour logique algorithmique. (English summary) [Study and implementation of a deductive system for algorithmic logic] **89i:68094**

Habasiński, Z. Regular automata and model checking. **89e:68086**

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(Jones, Roger B.) *see* **VDM '88. VDM—the way ahead, 89m:68093**

Kamin, Samuel The expressive theory of stacks. **89d:68054**

Kessels, J. L. W. An exercise in proving self-stabilization with a variant function. **89j:68106**

Lei, Chin-Laung *see* **Emerson, E. Allen, 89h:68106**

Manakova, E. I. (*with* Nikitchenko, N. S.) Compositional construction of correct programs for calculating functions that are defined by multiplication operations. (Russian) (*see* **89j:68011**)

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Mason, Ian A. Verification of programs that destructively manipulate data. **89i:68096**

Milne, Robert Proof rules for VDM statements. (*see* **89m:68093**)

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Nepomnyashchiĭ, V. A. (*with* Shilov, N. V.) Nondeterministic program schemata and their relation to dynamic logic. **89m:68091**

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Nikitchenko, N. S. *see* **Manakova, E. I.**, (**89j:68011**)

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Paulson, Lawrence C. ★ Logic and computation. **89e:68087**

Ryakin, O. M. Verification of semantic properties of computations based on regional invariants. **89a:68151**

Sain, Ildikó Total correctness in nonstandard logics of programs. **89j:68107**

Semenov, A. L. *see* **Vovk, V. G.; et al., 89m:68092**

Shilov, N. V. *see* **Nepomnyashchiĭ, V. A., 89m:68091**

Silberschatz, A. *see* **Jin, Zhi Quan, 89i:68095**

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Symposium:

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— *see also* **Browne, M. C.; et al., 89k:03030**

Cohen, Jacques *see* **Hickey, Timothy, 89h:68101**

Desharnais, Jules *see* **Mili, Ali; et al., 89a:68025**

Ehler, Herbert *see* **Berghammer, Rudolf; et al., 89m:68009**

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Gerth, R. *see* **Huizing, C.; et al., 89e:68078**

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Grümberg, O. *see* **Browne, M. C.; et al., 89k:03030** *and* **Clarke, E. M., 89k:68042**

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Hesselink, Wim H. Interpretations of recursion under unbounded nondeterminacy. **89i:68082**

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Hoare, C. A. R. *see* **Roscoe, A. W., 89j:68051**

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Kas'yanov, V. N. ★ Оптимизирующие преобразования программ. (Russian) [Optimizing transformations of programs] **89k:68017**

Kharmeev, A. A. *see* **Mart'yanov, V. I.; et al., 89j:68135**

Liu, Ming T. *see* **Elmagarmid, Ahmed K.; et al.**, (Not in MR)

Lumelsky, Vladimir J. (*with* Stepanov, Alexander A.) Path-planning strategies for a point mobile automaton moving amidst unknown obstacles of arbitrary shape. **89h:68146**

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Mili, Fatma *see* **Mili, Ali; et al., 89a:68025**

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Reiterman, Jan *see* **Trnková, Věra, 89k:68099**

de Roever, W. P. *see* **Huizing, C.; et al., 89e:68078**

Roscoe, A. W. (*with* Hoare, C. A. R.) The laws of Occam programming. **89j:68051**

Rosolini, G. Categories and effective computations. **89c:03101**

Salwicki, Andrzej *see* **Mirkowska, Grażyna, 89a:68149**

Sistla, A. Prasad (*with* Vardi, Moshe Y.; Wolper, Pierre) The complementation problem for Büchi automata with applications to temporal logic. **89a:68056**

Smith, Carl H. *see* **Cherniavsky, John C., 89a:68018**

Smith, Jan M. On a nonconstructive type theory and program derivation. **89k:03031**

Sobel, A. E. K. (*with* Soundararajan, Neelam) A proof system for distributed processes. (Not in MR)

Soundararajan, Neelam *see* **Sobel, A. E. K.**, (Not in MR) *and* **Elmagarmid, Ahmed K.; et al.**, (Not in MR)

Spivey, J. M. ★ Understanding Z. **89f:68040**

Stepanov, Alexander A. *see* **Lumelsky, Vladimir J., 89h:68146**

Szałas, Andrzej Arithmetical axiomatization of first-order temporal logic. **89a:03062**

Trnková, Věra (*with* Reiterman, Jan) Dynamic algebras with test. **89k:68099**

Vardi, Moshe Y. *see* **Sistla, A. Prasad; et al., 89a:68056**

Wirsing, M. *see* **Bauer, Friedrich Ludwig, 89e:68075**

Wolper, Pierre *see* **Sistla, A. Prasad; et al., 89a:68056**

Xue, Jin Yun *see* **Gries, David, 89j:68117**

Yakovlev, N. P. *see* **Mart'yanov, V. I.; et al., 89j:68135**

Zierer, Hans *see* **Berghammer, Rudolf; et al., 89m:68009**

68Q65 Abstract data types

Bergstra, J. A. (*with* Tucker, J. V.) Algebraic specifications of computable and semicomputable data types. **89f:68048**

Bernot, Gilles Good functors... are those preserving philosophy! **89f:68049**

Borzyszkowski, Andrzej (*with* Kubiak, Ryszard; Sokołowski, Stefan Andrzej) A set-theoretic model for a typed polymorphic lambda calculus. A contribution to MetaSoft. (*see* **89m:68093**)

Broy, Manfred Equational specification of partial higher order algebras. **89g:68046**

— Views of queues. **89m:68094**

Ehrig, H. *see* **Wagner, E. G., 89a:68157**

Goguen, Joseph A. *see* **Moss, Lawrence S.; et al., 89e:68088**

Gray, John W. Categorical aspects of data type constructors. **89a:68154**

Hansen, Horst (*with* Löwe, Michael) Modular algebraic specifications. (*see* **89j:68002**)

Ivanov, Aleksandr Anatol'evich Nondecidability of the theory of matrix data. (Russian) (Not in MR)

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Kasymov, N. Kh. (*with* Khusainov, B. M.) Finitely generated enumerable and absolutely locally finite algebras. (Russian) **89d:68055**
Khusainov, B. M. *see* **Kasymov, N. Kh., 89d:68055**
Kubiak, Ryszard *see* **Borzyszkowski, Andrzej; et al.**, (**89m:68093**)
Lomazova, I. A. Combination of algebraic specifications and procedural techniques for the processing of correct programs. (Not in MR)
Löwe, Michael *see* **Hansen, Horst**, (**89j:68002**)
Meseguer, José *see* **Moss, Lawrence S.; et al., 89e:68088**
Moss, Lawrence S. (*with* Meseguer, José; Goguen, Joseph A.) Final algebras, cosemicomputable algebras, and degrees of unsolvability. **89e:68088**
Orejas, F. Implementability and computability on abstract data types. **89f:68050**
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Padawitz, Peter The equational theory of parametrized specifications. **89g:68047**
Poigné, Axel (*with* Voss, Josef) On the implementation of abstract data types by programming language constructs. **89g:68048**
Sannella, Donald (*with* Tarlecki, A.) Specifications in an arbitrary institution. **89d:68056**
Sokołowski, Stefan Andrzej *see* **Borzyszkowski, Andrzej; et al.**, (**89m:68093**)
Srivas, Mandayam *see* **Kapur, Deepak, 89a:68155**
Tarlecki, A. *see* **Sannella, Donald, 89d:68056**
Tucker, J. V. *see* **Bergstra, J. A., 89f:68048**
Voss, Josef *see* **Poigné, Axel, 89g:68048**
Wagner, E. G. (*with* Ehrig, H.) Canonical constraints for parameterized data types. **89a:68157**

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Bird, Richard S. An introduction to the theory of lists. **89c:68054**
Burstall, R. *see* **Lampson, B., 89b:68045**
Danforth, Scott (*with* Tomlinson, Chris) Type theories and object-oriented programming. (Not in MR)
Duba, Bruce *see* **Felleisen, Matthias; et al., 89j:68097**
Felleisen, Matthias (*with* Friedman, Daniel P.; Kohlbecker, Eugene; Duba, Bruce) A syntactic theory of sequential control. **89j:68097**
Friedman, Daniel P. *see* **Felleisen, Matthias; et al., 89j:68097**
Kaplan, Stéphane Simplifying conditional term rewriting systems: unification, termination and confluence. **89d:68049**
Kapur, Deepak (*with* Narendran, Paliath; Zhang, Hantao) On sufficient-completeness and related properties of term rewriting systems. **89a:68136**
Kohlbecker, Eugene *see* **Felleisen, Matthias; et al., 89j:68097**
Lampson, B. (*with* Burstall, R.) Pebble, a kernel language for modules and abstract data types. **89b:68045**
Lin, Hui Min Relative completeness and specification of abstract data types. **89k:68020**
Martin, A. R. (*with* Tucker, J. V.) The concurrent assignment representation of synchronous systems. (*see* **89j:68053**)
Narendran, Paliath *see* **Kapur, Deepak; et al., 89a:68136**
Pitts, Andrew M. Polymorphism is set theoretic, constructively. **89c:03022**
Reichel, Horst Behavioural program specification. **89f:68044**
Tomlinson, Chris *see* **Danforth, Scott**, (Not in MR)
Tucker, J. V. (*with* Zucker, J. I.) ★ Program correctness over abstract data types, with error-state semantics. **89j:68108**
— *see also* **Martin, A. R.**, (**89j:68053**)
Veloso, Paulo A. S. Problem solving by interpretation of theories. **89e:68108**
Wagner, E. G. A categorical treatment of pre- and post-conditions. **89f:68046**
Zhang, Hantao *see* **Kapur, Deepak; et al., 89a:68136**
Zhang, Ming Hua A second order theory of data types. **89e:68009**
Zucker, J. I. *see* **Tucker, J. V., 89j:68108**

68Q70 Algebraic theory of automata [see also 20M35]

Ádám, András On simplicity-critical Moore automata. I. **89i:68098**
Arkhangel′skiĭ, K. V. *see* **Gorshkov, P. V., 89b:68047**
Babcsányi, I. Generalized power quasiautomata. **89d:68057**
— A characterization of cyclic Mealy-automata. **89j:68109**
Bruyère, Véronique An answer to a question about finite maximal prefix sets of words. **89f:68051**
Chasovskikh, A. A. A description of all precomplete classes in the class of linear automata. (Russian) **89e:68089**
Chebotarev, A. N. A method for the abstract design of automata with finite memory. (Russian) (*see* **89j:68009**)
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Chrobak, Marek Hierarchies of one-way multihead automata languages. **89j:68111**
Cori, Robert (*with* Sopena, Eric; Latteux, M.; Roos, Yves) 2-asynchronous automata. **89m:68095**
Dididze, Ts. E. On radicals in linear monoid automata. (Russian) **89b:68046**
Dömösi, P. (*with* Ésik, Z.) On homomorphic realization of automata with α_0-products. **89g:68049**
— (*with* Ésik, Z.) On homomorphic simulation of automata by ν_1-products. **89e:68090**
— (*with* Ésik, Z.) On the hierarchy of ν_i-products of automata. **89k:68103**
Enin, S. V. (*with* Shestakov, E. A.) On the decomposition of an automaton in a multistep network. **89h:68107**
Ésik, Z. (*with* Gécseg, F.) On α_0-products and α_2-products. **89g:68050**
— On isomorphic realization of automata with α_0-products. **89a:68158**
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— An extension of the Krohn-Rhodes decomposition of automata. **89k:68104**
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Gorshkov, P. V. (*with* Arkhangel′skiĭ, K. V.) On refinement of the concept of a multitape automaton. (Russian. English summary) **89b:68047**
Hofer, Gerhard Principal series and minimal group automata. **89g:68051**
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Kurshan, R. P. Complementing deterministic Büchi automata in polynomial time. **89g:68052**
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Latteux, M. *see* **Cori, Robert; et al., 89m:68095**
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Lisovik, L. P. Σ-automata with finitely iterated counters. **89g:68053**
Muller, David E. (*with* Schupp, Paul E.) Alternating automata on infinite trees. **89g:68054**
Napoli, M. *see* **Fachini, E., 89e:68091**
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Niemenmaa, Markku Decomposition of transformation groups of permutation machines. **89d:68059**
Peranidze, I. N. Constructions of the interlacing of a biautomaton by a representation. (Russian) **89e:68092**
Pilz, Günter F. Strictly connected group automata. **89a:68163**
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Roos, Yves *see* **Cori, Robert; et al., 89m:68095**
Schupp, Paul E. *see* **Muller, David E., 89g:68054**
Schützenberger, Marcel-Paul *see* **Choffrut, Christian, 89j:68110**
Shen, Hong^1 The semigroup structure of automata. (Chinese) **89d:68060**
Shestakov, E. A. *see* **Enin, S. V., 89h:68107**
Sopena, Eric *see* **Cori, Robert; et al., 89m:68095**
Takanami, Itsuo *see* **Inoue, Katsushi**, (**89g:68002**)
Thierrin, G. *see* **Gécseg, F., 89h:68108**
Zhang, Shu Hua *see* **Li, Lian, 89m:68098**
Zwiers, Jakob ★ Compositionality, concurrency and partial correctness. **89d:68061**

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Duboc, Christine Mixed product and asynchronous automata. **89a:68051**
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Kloss, B. B. On minimal autonomous partitions of directed graphs and some applications to automata theory. (Russian summary) **89m:05054**
Koroleva, Z. E. Some estimates for the complexity of realization of Boolean functions by schemes of functional elements. (Russian) **89j:94047**
Lei, Chin-Laung *see* **Emerson, E. Allen, 89h:68106**
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Mostowski, Andrzej Wlodzimierz Hierarchies of weak monadic formulas for two successors arithmetic. (German and Russian summaries) **89c:03076**
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Sagalovich, Yu. L. Antihazard coding of the states of an automaton under conditions of byte errors of the memory elements. (Russian) **89i:94040**
Thérien, Denis On the equation $x^t = x^{t+q}$ in categories. **89k:20099**
Thomas, Wolfgang *see* **Lippert, D., 89m:68077**
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Ush·chumlich, Sh. M. *see* **Podkolzin, A. S., 89h:68058**
Vetrennikova, E. V. Construction of the simplest universal bounded-determinate function. (Russian) **89h:03068**

68Q75 Stochastic and nondeterministic automata

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Barel, A. On growing automata and random environments. **89e:68093**
Christensen, Jens Peter Reus *see* **Oommen, B. J., 89j:68113**
Domany, Eytan Neural networks: a biased overview. (*see* **89e:82001**)
Èĭdel′man, S. D. *see* **Korolyuk, V. S.; et al., 89k:68108**
Janicki, Sławomir Direct sum of stochastic automata. (Russian summary) **89a:68164**
Korolyuk, V. S. (*with* Pletnëv, A. I.; Èĭdel′man, S. D.) Automata. Random walks. Games. **89k:68108**
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Pletnëv, A. I. *see* **Korolyuk, V. S.; et al., 89k:68108**
Storm, Joachim Über ein Optimalitätsziel für stochastische zellulare Systeme mit unabhängigen Komponenten. [On an optimality goal for stochastic cellular systems with independent components] **89m:68100**
Vlassopoulos, V. *see* **Apostolatos, N., 89k:68107**
Weisbuch, Gérard Random Boolean nets and disordered systems. (*see* **89c:68078**)
Wiśniewski, Kazimierz A generalization of finite automata. **89d:68062**

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Baldi, Pierre Neural networks, acyclic orientations of the hypercube, and sets of orthogonal vectors. **89j:92021**
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Levermore, C. David *see* **Boghosian, Bruce M., 89a:35170a** *and* **89a:35170b**
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Semenov, M. A. (*with* Terkel′, D. A.) Games of probabilistic and deterministic algorithms of bounded complexity. (Russian) **89j:68041**
de St. Pierre, Thierry *see* **Cosnard, Michel; et al., 89h:68109**
Taylor, John G. *see* **Gorse, D., 89h:92015**
Terkel′, D. A. *see* **Semenov, M. A., 89j:68041**
Zeilinger, Anton *see* **Grössing, Gerhard, 89e:81052**

68Q80 Tesselation automata, iterative arrays, cellular structure

Alad′ev, V. Z. Recent results on the theory of homogeneous structures. **89c:68077**
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Jen, Erica Scaling of preimages in cellular automata. **89b:68050**
Jiang, Tao *see* **Ibarra, Oscar H., 89a:68166** *and* **89h:68111**
Karhumäki, Juhani *see* **Culik, Karel, II, 89e:68096**
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van der Poel, W. L. The game of life: a cellular automaton with the cardinality of a Turing machine. (Dutch) (Not in MR)
Reif, John H. *see* **Gács, Péter, 89m:68102**
Robert, Yves Systolic algorithms for path-finding problems. (*see* **89c:68078**)
Rouet, Alain *see* **Dubois-Violette, Michel, 89a:68165** *and* **89k:68110**
Ruján, Pál Cellular automata and statistical mechanical models. **89h:68113**
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Shanblatt, Michael A. *see* **Faroughi, Nikrouz, (89f:68003)**
de St. Pierre, Thierry *see* **Cosnard, Michel; et al., 89h:68109**
Sutner, Klaus On σ-automata. **89h:68114**
Tchuente, Maurice Computation on finite networks of automata. (*see* **89c:68078**)
— *see also* **Louka, Basile, 89m:68103**
Victor, Jonathan D. *see* **Gutowitz, Howard A.; et al., 89d:68063**
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Yu, Sheng *see* **Culik, Karel, II, 89e:68095** *and* **89j:68114**

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Herrmann, Hans J. *see* **da Silva, Luciano R.; et al., 89c:82076**
Hoogland, A. *see* **Compagner, A., 89a:65009**
Huber, A. *see* **van Hemmen, J. L.; et al., 89m:92020**
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Keller, Jeffrey M. *see* **Rothman, Daniel H., 89i:82005**
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Lucena, Liacir S. *see* **da Silva, Luciano R.; et al., 89c:82076**
Manneville, Paul *see* **Chaté, Hugues, 89k:76064**
Mézard, Marc *see* **Krauth, Werner; et al., 89g:92018**
Michalski, Jacek *see* **Głazek, K.; et al., 89d:08002**
Mugibayashi, Nobumichi *see* **Aoki, Kazunori**, (**89g:82013**)
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Rivet, Jean-Pierre *see* **Frisch, Uriel, 89k:82048**
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Schuster, Heike *see* **Dress, Andreas; et al., 89m:92063**
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Steeb, W.-H. *see* **Kotze, L., 89k:58092**
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Takesue, Shinji Reversible cellular automata and statistical mechanics. **89b:82150**
Tamayo, Pablo *see* **Hartman, Hyman; et al., 89b:82140**
Victor, Jonathan D. *see* **Gutowitz, Howard A., 89k:82084**
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Zaleski, Stéphane *see* **Rucklidge, Alastair, 89j:82019**

68Q90 Transition nets

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Baldi, Pierre Neural networks, orientations of the hypercube, and algebraic threshold functions. **89h:68115**
Best, Eike (*with* Devillers, Raymond) Sequential and concurrent behaviour in Petri net theory. **89d:68064**
Budinas, B. L. Decidability of the reachability problem for vector addition systems. (Russian) **89f:68052**
Choquet, Annie *see* **Finkel, Alain, 89a:68167**
Devillers, Raymond *see* **Best, Eike, 89d:68064**
Finkel, Alain (*with* Choquet, Annie) FIFO nets without order deadlock. **89a:68167**
Hiraishi, Kunihiko *see* **Ichikawa, Atsunobu**, (**89a:00019**)
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Krasnobaev, L. A. *see* **Krasnobaev, V. A., 89m:68104**
Krasnobaev, V. A. (*with* Krasnobaev, L. A.) Application of Petri nets for modeling in order to find and search for alternating failures in a computer. **89m:68104**
Kul'ba, A. V. *see* **Makarov, I. M.; et al., 89k:68112**
Kurabayashi, Yoshio *see* **Sugasawa, Yoshio; et al., 89i:68099**
Lu, Wei Ming Two algorithms for variable allocation in an interpreted scheme. **89j:68115**
Makarov, I. M. (*with* Nazaretov, V. M.; Kul'ba, A. V.; Shvetsov, A. R.) Petri nets with multicolor markers. **89k:68112**
Martin, A. R. (*with* Tucker, J. V.) The concurrent assignment representation of synchronous systems. (*see* **89j:68053**)
Murata, Koichi *see* **Sugasawa, Yoshio; et al., 89i:68099**
Nazaretov, V. M. *see* **Makarov, I. M.; et al., 89k:68112**
Plünnecke, Helmut The structure of facts in occurrence nets. **89a:68168**
Reisig, Wolfgang ★ Petrinetze. (German) [Petri nets] **89b:68051**
Rozenblyum, L. Ya. *see* **Vagin, V. N.; et al., 89k:68113**
Sciomachen, A. *see* **Archetti, F.**, (**89k:90082**)
Shvetsov, A. R. *see* **Makarov, I. M.; et al., 89k:68112**
Starke, Peter H. ★ Sieci Petri. (Polish) [Petri nets] **89b:68052**
Sugasawa, Yoshio (*with* Murata, Koichi; Kurabayashi, Yoshio) Analysis of probabilistic behavior of the system with nonregeneration points interpreted as Petri net by Markov renewal processes. **89i:68099**
Tucker, J. V. *see* **Martin, A. R.**, (**89j:68053**)
Vagin, V. N. (*with* Zakharov, V. N.; Rozenblyum, L. Ya.) Logical inference on interpreted Petri nets. **89k:68113**
Zakharov, V. N. *see* **Vagin, V. N.; et al., 89k:68113**
(Żurek, Jacek) *see* **Starke, Peter H., 89b:68052**

Items with secondary classifications in 68Q90

Aalbersberg, IJsbrand Jan (*with* Rozenberg, Grzegorz) Theory of traces. **89j:68042**
Assimakopoulos, Nikitas Distributed decision making in cybernetic systems. (Not in MR)
de Bakker, J. W. (*with* Meyer, J.-J. Ch.) Order and metric in the stream semantics of elemental concurrency. **89a:68144**
— (*with* Meyer, J.-J. Ch.; Olderog, E.-R.; Zucker, J. I.) Transition systems, metric spaces and ready sets in the semantics of uniform concurrency. **89i:68034**
Bandyopadhyay, Subhansu *see* **Saha, Banani, 89m:93013**
Best, Eike (*with* Merceron, Agathe) *D*-continuity and Petri's axioms of concurrency for nonsequential process models. **89g:68011**
— (*with* Fernández, César) ★ Nonsequential processes. **89i:68035**
Chan, Tat Hung The boundedness problem for three-dimensional vector addition systems with states. **89b:68028**
Ciardo, Gianfranco *see* **Dugan, Joanne Bechta**, (Not in MR)
Coolen, A. C. C. (*with* Ruijgrok, Th. W.) Image evolution in Hopfield networks. **89j:92026**
Dang Van Hung (*with* Knuth, Elöd) A noninterleaving semantics for communicating sequential processes: a fixed-point approach. **89h:68099**
Darondeau, Ph. Bisimulation and effectiveness. **89m:68033**
Denham, M. J. A Petri-net approach to the control of discrete-event systems. **89m:93044**
Djidjev, H. N. Design and analysis of systolic implementations. (Russian summary) **89e:68060**
Dugan, Joanne Bechta (*with* Ciardo, Gianfranco) Stochastic Petri net analysis of a replicated file system. (Not in MR)
Fernández, César *see* **Best, Eike, 89i:68035**
Hauschildt, Dirk (*with* Valk, Rüdiger) Safe states in banker-like resource allocation problems. **89e:68028**
Hertz, J. A. *see* **Krogh, A., 89g:92019**
Janicki, Ryszard A formal semantics for concurrent systems with a priority relation. **89h:68044**
Kahn, Arthur B. (*with* Sigler, John N.) A network model for problem solving. (*see* **89c:00033**)
Karpov, Yu. G. Coherence of systems of parallel informational processes. **89m:68035**
Kedem, Zvi Meir *see* **Lee, Peizong**, (Not in MR)
Kiehn, Astrid On the interrelation between synchronized and nonsynchronized behaviour of Petri nets. (German and Russian summaries) **89i:68083**
Knuth, Elöd *see* **Dang Van Hung, 89h:68099**
Krogh, A. (*with* Hertz, J. A.) Mean-field analysis of hierarchical associative networks with "magnetisation". **89g:92019**
(Krückeberg, F.) *see* **Pascoletti, Karl-Heinz, 89j:11123**
Kumagai, Sadatoshi Modelling and analysis of distributed systems: a net theoretic approach. **89i:93005**
(Lautenbach, K.) *see* **Pascoletti, Karl-Heinz, 89j:11123**
Lee, Peizong (*with* Kedem, Zvi Meir) Synthesizing linear array algorithms from nested for loop algorithms. (Not in MR)
Lindenmayer, Aristid Models for multicellular development: characterization, inference and complexity of *L*-systems. **89c:68060**
Matsuyama, Kenji *see* **Murata, Tadao, 89c:68087**
Merceron, Agathe *see* **Best, Eike, 89g:68011**
Meyer, J.-J. Ch. *see* **de Bakker, J. W., 89a:68144** *and* **89i:68034**

Mochalov, V. I. (*with* Neklyudov, P. A.; Nazaretov, V. M.) Application of dynamic bipartite network structures for the simulation of discrete-continuous production systems. (Russian) (Not in MR)

Murata, Tadao (*with* Matsuyama, Kenji) Inconsistency check of a set of clauses using Petri net reductions. **89c:68087**

Nazaretov, V. M. *see* **Mochalov, V. I.; et al.**, (Not in MR)

Neklyudov, P. A. *see* **Mochalov, V. I.; et al.**, (Not in MR)

Olderog, E.-R. *see* **de Bakker, J. W.; et al.**, **89i:68034**

Pascoletti, Karl-Heinz ★ Diophantische Systeme und Lösungsmethoden zur Bestimmung aller Invarianten in Petri-Netzen. (German) [Diophantine systems and methods of solution for determining all invariants in Petri nets] **89j:11123**

Rangarajan, K. (*with* Shyamasundar, R. K.) Parallel rewriting systems and Petri nets. **89i:68077**

Rozenberg, Grzegorz *see* **Aalbersberg, IJsbrand Jan**, **89j:68042**

Ruijgrok, Th. W. *see* **Coolen, A. C. C.**, **89j:92026**

Saha, Banani (*with* Bandyopadhyay, Subhansu) Realization of Petri nets: a system theoretic approach. **89m:93013**

Schwer, S. R. Dépliage d'un graphe pointé en un cactus. (English summary) [Unfolding of a rooted graph into a cactus] **89c:68082**

Shyamasundar, R. K. *see* **Rangarajan, K.**, **89i:68077**

Sigler, John N. *see* **Kahn, Arthur B.**, (**89c:00033**)

Tekko, J. Application of the language of the Quirk model for a comparison between the Quirk model and Petri nets. (Russian. English and Estonian summaries) **89g:68015**

Valk, Rüdiger *see* **Hauschildt, Dirk**, **89e:68028**

Zhang, Wei Xiong An automatic planning method and algorithm based on a Petri net representation. (Chinese. English summary) (Not in MR)

Zucker, J. I. *see* **de Bakker, J. W.; et al.**, **89i:68034**

68Q99 None of the above, but in this section

Allouche, Jean-Paul (*with* Randé, Bernard; Thimonier, Loÿs) Fonctions génératrices transcendantes à coefficients engendrés par automates. (English summary) [Transcendental generating functions with coefficients generated by automata] **89c:68079**

Barashko, A. S. The statistical equivalence of automata with respect to input and output. (Russian. English summary) **89a:68169**

Brusilovskiĭ, P. M. A collective of evolving automata in forecasting problems. (Russian) (*see* **89m:00008**)

Crépeau, Claude Equivalence between two flavours of oblivious transfers. (*see* **89b:68005**)

Morrison, John F. Parallel p-adic computation. **89m:68105**

Peeva, Ketty G. Behaviour, reduction and minimization of finite L-automata. **89m:68106**

Podkolzin, A. S. (*with* Ush·chumlich, Sh. M.) An approach to automata schemes synthesis. **89m:68107**

Randé, Bernard *see* **Allouche, Jean-Paul; et al.**, **89c:68079**

Słomiński, Józef Relative cogenerations with applications to tree automata and a theory of abstract algebras with feedback modifications. **89k:68114**

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Thimonier, Loÿs *see* **Allouche, Jean-Paul; et al.**, **89c:68079**

Ush·chumlich, Sh. M. *see* **Podkolzin, A. S.**, **89m:68107**

Winskel, Glynn Models and logic of MOS circuits. **89a:68170**

Items with secondary classifications in 68Q99

Buszkowski, Wojciech Solvable problems for classical categorial grammars. (Russian summary) **89a:03073**

Chemillier, Marc Monoïde libre et musique. I. Les musiciens ont-ils besoin des mathématiques? (English summary) [The free monoid and music. I. Do musicians need mathematics?] **89b:00045a**

— Monoïde libre et musique. II. (English summary) [The free monoid and music. II] **89b:00045b**

Desharnais, Jules *see* **Mili, Ali; et al.**, **89a:68025**

Gärdenfors, Peter ★ Knowledge in flux. **89k:00015**

Giannakopoulos, F. *see* **von Seelen, W.; et al.**, (**89i:92026**)

Gille, Jean-Charles (*with* Węgrzyn, Stefan; Vidal, Pierre) On some models for developmental systems. IX. Generalized generating word and genetic code. **89e:92028**

Girard, Jean-Yves Linear logic. **89m:03057**

van de Graaf, Jeroen (*with* Peralta, René) A simple and secure way to show the validity of your public key. (*see* **89b:68005**)

Klir, G. J. The future of information, computer, and systems sciences. **89m:68004**

Lavrik, V. N. (*with* Rodriges Rabago, V. A.) ★ Способ формализации математических структур. (Russian) [A method for the formalization of mathematical structures] **89k:08003**

Lisovik, L. P. Algorithmic problems for real functions. (Russian. English summary) **89a:03119**

Mallot, H. A. *see* **von Seelen, W.; et al.**, (**89i:92026**)

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Mili, Ali (*with* Desharnais, Jules; Mili, Fatma) Relational heuristics for the design of deterministic programs. **89a:68025**

Mili, Fatma *see* **Mili, Ali; et al.**, **89a:68025**

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Parga, N. *see* **Miranda, E. N.**, **89b:82143**

Peralta, René *see* **van de Graaf, Jeroen**, (**89b:68005**)

Rackoff, Charles *see* **Micali, Silvio; et al.**, **89k:94051**

Rasiowa, Helena Logic approximating sequences of sets. **89j:03018**

Rodriges Rabago, V. A. *see* **Lavrik, V. N.**, **89k:08003**

Rubel, Lee A. Some mathematical limitations of the general-purpose analog computer. **89h:12013**

Salon, Olivier Substitutions, automates et séries formelles relatifs aux suites à multi-indices. [Permutations, automata and formal series relative to sequences with multi-indices] (*see* **89b:11004**)

von Seelen, W. (*with* Mallot, H. A.; Giannakopoulos, F.) Computation in cortical nets. (*see* **89i:92026**)

Semenov, A. L. (*with* Uspenskiĭ, V. A.) Mathematical logic in computer science and computer programming. (Russian) **89a:03061**

Sloan, Bob *see* **Micali, Silvio; et al.**, **89k:94051**

Uspenskiĭ, V. A. *see* **Semenov, A. L.**, **89a:03061**

Val'kov, K. I. Probability, information and the arguments of reason. (Russian) **89g:00023**

Vidal, Pierre *see* **Gille, Jean-Charles; et al.**, **89e:92028**

Węgrzyn, Stefan *see* **Gille, Jean-Charles; et al.**, **89e:92028**

68Rxx Discrete mathematics in relation to computer science

Items with secondary classifications in 68Rxx

Kindervater, G. A. P. (*with* Lenstra, J. K.) Parallel computing in combinatorial optimization. **89i:90063**

Lenstra, J. K. *see* **Kindervater, G. A. P.**, **89i:90063**

Strassen, V. The work of Leslie G. Valiant. **89d:01068**

(Valiant, Leslie G.) *see* **Strassen, V.**, **89d:01068**

68R05 Combinatorics

Alekseenko, M. A. (*with* Kaspshitskaya, M. F.; Stiranka, A. I.) A method for solving the fundamental cluster problem. (Russian) **89j:68116**

Almeida, Jorge Overlapping of words in rational languages. **89a:68171**

Ding, Ke Quan (*with* Wang, Zhi Li) An improvement on the scheme-moving-down algorithm for the partition of a random permutation. (Chinese) (Not in MR)

Dupont, Peter *see* **Koebe, Manfred**, **89m:68108**

Fernández-Baca, David (*with* Slutzki, Giora) Solving parametric problems on trees. **89e:68099**

Gries, David (*with* Xue, Jin Yun) Generating a random cyclic permutation. **89j:68117**

Hochbaum, Dorit S. (*with* Shmoys, David B.) A polynomial approximation scheme for scheduling on uniform processors: using the dual approximation approach. **89f:68053**

Kaspshitskaya, M. F. *see* **Alekseenko, M. A.; et al.**, **89j:68116**

Koebe, Manfred (*with* Dupont, Peter) Single-layer channel routing. (German and Russian summaries) **89m:68108**

Lingas, Andrzej A new heuristic for minimum weight triangulation. **89h:68116**

Pearl, Judea (*with* Tarsi, Michael) Structuring causal trees. **89g:68056**

Ruskey, Frank Adjacent interchange generation of combinations. **89d:68066**

Shmoys, David B. *see* **Hochbaum, Dorit S.**, **89f:68053**

Slutzki, Giora *see* **Fernández-Baca, David**, **89e:68099**

Sridhar, M. A. On the connectivity of the de Bruijn graph. **89h:68117**

Stiranka, A. I. *see* **Alekseenko, M. A.; et al.**, **89j:68116**

Tarsi, Michael *see* **Pearl, Judea**, **89g:68056**

Veni Madhavan, C. E. Elements of data structure and combinatorial algorithms. (*see* **89h:00004**)

— Counting configurations arising in the analysis of algorithms. (*see* **89h:00004**)

Wang, Shi Tie Some investigations of program transformations. (Chinese. English summary) **89g:68057**

Wang, Zhi Li *see* **Ding, Ke Quan**, (Not in MR)

Xue, Jin Yun *see* **Gries, David**, **89j:68117**

Items with secondary classifications in 68R05

Altman, Tom (*with* Chrobak, Marek; Truszczyński, Mirosław) Generating k-combinations from a family of sets. **89i:05002**

Ball, Michael O. *see* **Provan, J. Scott**, **89m:68064**

Bauderon, Michel (*with* Courcelle, Bruno) Graph expressions and graph rewritings. **89f:68038**

Bender, Edward A. (*with* Butler, Jon T.) On the size of PLAs required to realize binary and multiple-valued functions. **89k:68059**

de Bruin, Arie (*with* Rinnooy Kan, A. H. G.; Trienekens, H. W. J. M.) A simulation tool for the performance evaluation of parallel branch and bound algorithms. **89k:90134**

Bruyère, Véronique An answer to a question about finite maximal prefix sets of words. **89f:68051**

Butler, Jon T. *see* **Bender, Edward A.**, **89k:68059**

Carpi, Arturo Multidimensional unrepetitive configurations. **89h:20094**

Chandran, Sharat (*with* Rosenfeld, Azriel) Order statistics on a hypercube. (Not in MR)

Chang, Chên Ch'êng (*with* Chen, C. Y.) A recursive performance formula of the disc modulo allocation method for binary Cartesian product files. **89k:68014**

Chen, C. Y. *see* **Chang, Chên Ch'êng**, **89k:68014**

Chrobak, Marek *see* **Altman, Tom; et al.**, **89i:05002**

Chung, F. R. K. (*with* Graham, R. L.; Saks, M. E.) Dynamic search in graphs. **89e:05183**

Clausen, Jens (*with* Krarup, Jakob) Arranging apples in an array. **89j:68120**

Colbourn, Charles J. ★ The combinatorics of network reliability. **89h:68001**

Courcelle, Bruno *see* **Bauderon, Michel**, **89f:68038**

(Darlington, J.) *see* **Jacobs, Dean**, **89i:68051**

Delest, M.-P. Generating functions for column-convex polyominoes. **89e:05013**

Evdokimov, A. A. The completeness of sets of words. (Russian) **89e:68066**

Feather, Martin *see* **Jacobs, Dean**, **89i:68051**

Fisher, David C. Next-fit packs a list and its reverse into the same number of bins. **89k:90135**

Freiman, G. (*with* Lipkin, E.; Levitin, L.) A polynomial algorithm for constructing families of k-independent sets. **89g:05005**

Gambosi, Giorgio (*with* Italiano, Giuseppe F.; Talamo, Maurizio) Getting back to the past in the union-find problem. **89c:68046**

Ginsburg, Seymour (*with* Tang, Chang Jie) Canonical forms for interval functions. **89a:68038**

Gonzalez, Teofilo F. (*with* Lee, Sing-Ling) A 1.6 approximation algorithm for routing multiterminal nets. **89a:68088**
Graham, R. L. *see* **Chung, F. R. K.; et al., 89e:05183**
Guénoche, A. (*with* Monjardet, B.) Méthodes ordinales et combinatoires en analyse des données. (English summary) [Ordinal and combinatorial methods in data analysis] (Not in MR)
Hare, E. O. (*with* Hedetniemi, S. T.) A linear algorithm for computing the Knight's domination number of a $k \times n$ chessboard.
Håstad, Johan Dual vectors and lower bounds for the nearest lattice point problem. **89i:11074**
Hedetniemi, S. T. *see* **Hare, E. O.**, (Not in MR)
Holladay, Kenneth Estimating the size of context-free tiling languages. **89k:68083**
Huang, Xiaoqiu A lower bound for the edit-distance problem under an arbitrary cost function. **89d:68034**
Italiano, Giuseppe F. *see* **Gambosi, Giorgio; et al., 89c:68046**
Jacobs, Dean (*with* Feather, Martin) Corrections to: "A synthesis of several sorting algorithms" [Acta Inform. **11** (1978/79), no. 1, 1–30; MR 80e:68024] by J. Darlington. **89i:68051**
Katerinochkina, N. N. A problem on the search for a maximal upper zero for some subclasses of monotone Boolean functions. (Russian) **89c:94052**
Kirschenhofer, Peter (*with* Prodinger, Helmut; Tichy, Robert F.) A contribution to the analysis of in situ permutation. (Serbo-Croatian summary) **89i:05023**
Knuth, Donald E. (*with* Pittel, B.) A recurrence related to trees. **89i:05024**
Kobayashi, Yuji Enumeration of irreducible binary words. **89f:68036**
Kogan, A. Yu. Minimization of binary functions with a small number of zeros. (Russian) **89j:94046**
Krarup, Jakob *see* **Clausen, Jens, 89j:68120**
Kurtz, T. G. (*with* Manber, Udi) A probabilistic distributed algorithm for set intersection and its analysis. **89h:68066**
Langenhop, Carl E. (*with* Wright, William E.) Certain occupancy numbers via an algorithm for computing their ratios. **89i:05027**
Lawson, Jimmie D. The versatile continuous order. **89g:06023**
Lee, Sing-Ling *see* **Gonzalez, Teofilo F., 89a:68088**
Leonard, Douglas A. A prefix problem. **89a:05024**
Levcopoulos, Christos (*with* Overmars, Mark H.) A balanced search tree with $O(1)$ worst-case update time. **89k:68025**
Levitin, L. *see* **Freiman, G.; et al., 89g:05005**
Lipkin, E. *see* **Freiman, G.; et al., 89g:05005**
Machida, H. A combinatorial method in lower bound theory. **89c:68049**
Manber, Udi *see* **Kurtz, T. G., 89h:68066**
Massazza, P. (*with* Mauri, G.; Righi, P.; Torelli, M.) A symbolic manipulation system for combinatorial problems. **89i:05028**
Mauri, G. *see* **Massazza, P.; et al., 89i:05028**
Monjardet, B. *see* **Guénoche, A.**, (Not in MR)
Morrison, John F. A note on LPT scheduling. **89f:90076**
Overmars, Mark H. *see* **Levcopoulos, Christos, 89k:68025**
Paige, Robert (*with* Tarjan, Robert E.) Three partition refinement algorithms. **89h:68069**
Papacostas Casanova, Alcibíades Circuit design: computational complexity of the problem of the least number of cards without bridges. (Spanish) (*see* **89k:00009**)
Pham The Que *M*-minimal covers and Sperner systems with application to the key finding problem for relation scheme. (Hungarian summary) **89h:68023**
Pippenger, Nicholas Sorting and selecting in rounds. **89h:68019**
Pittel, B. (*with* Yu, Jenn-Hwa) On search times for early-insertion coalesced hashing. **89h:68020**
— *see also* **Knuth, Donald E., 89i:05024**
Prodinger, Helmut *see* **Kirschenhofer, Peter; et al., 89i:05023**
Provan, J. Scott (*with* Ball, Michael O.) Efficient recognition of matroid and 2-monotonic systems. **89m:68064**
Qi, Li Qun Odd submodular functions, Dilworth functions and discrete convex functions. **89i:90046**
Razborov, A. A. Formulas of bounded depth in the basis $\{\&, \oplus\}$ and some combinatorial problems. (Russian) **89d:68024**
Righi, P. *see* **Massazza, P.; et al., 89i:05028**
Rinnooy Kan, A. H. G. *see* **de Bruin, Arie; et al., 89k:90134**
Rosenfeld, Azriel *see* **Chandran, Sharat**, (Not in MR)
Saks, M. E. *see* **Chung, F. R. K.; et al., 89e:05183**
Sastry, Shanthi Domination and its variants. (*see* **89h:00004**)
Schwartz, Jacob T. (*with* Sharir, M.) Motion planning and related geometric algorithms in robotics. **89h:68150**
Sharir, M. Davenport-Schinzel sequences and their geometric applications. **89d:68085**
— *see also* **Schwartz, Jacob T., 89h:68150**
Simon, Imre Infinite words and a theorem of Hindman. (Spanish summary) **89e:05026**
Soviš, František On rearrangeable networks of the shuffle-exchange type. (Russian summary) **89h:68004**
Spinrad, Jeremy P_4-trees. **89e:05073**
Stein, Paul R. (*with* Zemach, C.) On the rationalization of a sum of surds. **89a:05002**
Stinson, D. R. (*with* Vanstone, S. A.) A combinatorial approach to threshold schemes. **89d:05035**
Szpankowski, Wojciech Some results on V-ary asymmetric tries. **89d:68006**
Talamo, Maurizio *see* **Gambosi, Giorgio; et al., 89c:68046**
Tang, Chang Jie *see* **Ginsburg, Seymour, 89a:68038**
Tarasova, L. G. The problem of finding an unordered system of maximal power for a 2-indexed combinatorial configuration, and an algorithm for its solution. (Russian) **89j:68063**
Tarjan, Robert E. *see* **Paige, Robert, 89h:68069**
Tichy, Robert F. *see* **Kirschenhofer, Peter; et al., 89i:05023**
Torelli, M. *see* **Massazza, P.; et al., 89i:05028**
Trienekens, H. W. J. M. *see* **de Bruin, Arie; et al., 89k:90134**
Truszczyński, Mirosław *see* **Altman, Tom; et al., 89i:05002**
Vanstone, S. A. *see* **Stinson, D. R., 89d:05035**
Vishkin, Uzi An optimal parallel algorithm for selection. **89c:68045**
Wormald, Nicholas C. Generating random unlabelled graphs. **89c:05066**
Wright, William E. *see* **Langenhop, Carl E., 89i:05027**
Yu, Jenn-Hwa *see* **Pittel, B., 89h:68020**
Zemach, C. *see* **Stein, Paul R., 89a:05002**

68R10 Graph theory [see also 05Cxx]

Akers, Sheldon B. (*with* Krishnamurthy, Balakrishnan) A group-theoretic model for symmetric interconnection networks. **89k:68115**
Amin, A. T. (*with* Siegrist, K. T.; Slater, P. J.) Pair-connected reliability of a tree and its distance degree sequences. **89h:68118**
Asai, Kiyoji *see* **Tsutsui, Shigeyoshi**, (Not in MR)
Ausiello, Giorgio Directed hypergraphs: data structures and applications (extended abstract). (*see* **89c:68003**)
Banerjee, Prithviraj *see* **West, Douglas B., 89h:68122**
Bern, Marshall W. Two probabilistic results on rectilinear Steiner trees. **89c:68080**
Bhasker, Jayaram (*with* Sahni, Sartaj) Via assignment in single-row routing. **89j:68118**
Bovet, Daniel P. (*with* De Agostino, S.; Petreschi, R.) Parallelism and the feedback vertex set problem. **89k:68116**
Boyar, Joan F. (*with* Karloff, Howard J.) Coloring planar graphs in parallel. **89d:68067**
Brandstädt, Andreas The computational complexity of feedback vertex set, Hamiltonian circuit, dominating set, Steiner tree, and bandwidth on special perfect graphs. (German and Russian summaries) **89b:68053**
— (*with* Kratsch, Dieter) On domination problems for permutation and other graphs. **89a:68172**
Cederbaum, Israel *see* **Wimer, Shmuel; et al., 89a:68180**
Chandrasekharan, N. (*with* Iyengar, S. Sitharama) NC algorithms for recognizing chordal graphs and k-trees. **89j:68119**
Ch'ên, Chien Hui (*with* Kuo, M. T.; Sheu, J. P.) An optimal time algorithm for finding a maximum weight independent set in a tree. **89e:68100**
Chen, Ting Huai (*with* Kang, Tai; Yao, Rong) The connectivity of hypergraphs and the design of a fault-tolerant multibus. **89m:68109**
Chi, Zhong Xian (*with* Lu, Chang Shun; Mao, Yu Cui; Zuo, Kai) The design and implementation of the graph theory language GTL. (Chinese. English summary) (Not in MR)
Clausen, Jens (*with* Krarup, Jakob) Arranging apples in an array. **89j:68120**
Colbourn, Charles J. *see* **El-Mallah, Ehab S., 89d:68068**
De Agostino, S. *see* **Bovet, Daniel P.; et al., 89k:68116**
De Felice, Clelia Finite biprefix sets of paths in a graph. **89k:68117**
Ebert, Jürgen Computing Eulerian trails. **89i:68100**
El-Mallah, Ehab S. (*with* Colbourn, Charles J.) The complexity of some edge deletion problems. **89d:68068**
Er, M. C. Ranking and unranking of nonregular trees. **89c:68081**
Esposito, C. Graph graphics: theory and practice. **89m:68110**
Frederickson, Greg N. (*with* Janardan, Ravi) Space-efficient and fault-tolerant message routing in outerplanar networks. **89k:68118**
Frenk, J. B. G. (*with* van Houweninge, M.; Rinnooy Kan, A. H. G.) Order statistics and the linear assignment problem. (German summary) **89d:68069**
Gilbert, John R. Some nested dissection order is nearly optimal. **89b:68054**
Goldberg, Mark K. (*with* Miller, Z.) A parallel algorithm for bisection width in trees. **89k:68119**
Gutjahr, Walter Enumeration of program structures as trees with commutative or associative nodes. **89j:68121**
Haddad, Ramsey W. (*with* Schäffer, Alejandro A.) Recognizing Bellman-Ford-orderable graphs. **89m:68111**
Harel, David On visual formalisms. **89d:68070**
Hiraishi, Hiromi (*with* Kawahara, Kenji; Yajima, Shuzo) Locally exhaustive testing of combinational circuits using linear logic circuits. (Not in MR)
van Houweninge, M. *see* **Frenk, J. B. G.; et al., 89d:68069**
Hu, Wen An algorithm for recursive generation of rooted trees. (Chinese. English summary) **89i:68101**
Hunt, H. B., III *see* **Ravi, S. S., 89a:68177**
Iyengar, S. Sitharama *see* **Chandrasekharan, N., 89j:68119**
Iyer, Ananth V. (*with* Ratliff, H. Donald; Vijayan, G.) Optimal node ranking of trees. **89h:68119**
Janardan, Ravi *see* **Frederickson, Greg N., 89k:68118**
Jimbo, Shuji (*with* Maruoka, A.) Expanders obtained from affine transformations. **89d:68071**
Kang, Tai *see* **Chen, Ting Huai; et al., 89m:68109**
Karloff, Howard J. *see* **Boyar, Joan F., 89d:68067**
Karpiński, M. *see* **Lingas, Andrzej, 89k:68120**
Kawahara, Kenji *see* **Hiraishi, Hiromi; et al.**, (Not in MR)
Kim, Song Ho On the uniqueness and existence for complete flow tree of parallel flow chart. (Korean. English summary) **89j:68122**
Klebanovich, D. M. (*with* Malyshko, V. V.) An approximate algorithm for the packing of a tree on a rectangular grid with minimization of area. (Russian. English summary) **89a:68173**
Koren, I. *see* **Wimer, Shmuel; et al., 89a:68180**
Korolev, Anatoliĭ Georgievich An algorithm for the determination of the isomorphism of graphs on the basis of their transformation with regard to connectivity components. (Russian. English summary) **89j:68123**
Krarup, Jakob *see* **Clausen, Jens, 89j:68120**
Kratsch, Dieter *see* **Brandstädt, Andreas, 89a:68172**
Krishnamurthy, Balakrishnan *see* **Akers, Sheldon B., 89k:68115**
Křivánek, Mirko A note on the computational complexity of computing the edge rotation distance between graphs. (Russian and Czech summaries) **89h:68120**
Kuo, M. T. *see* **Ch'ên, Chien Hui; et al., 89e:68100**
Lingas, Andrzej (*with* Karpiński, M.) Subtree isomorphism is NC reducible to bipartite perfect matching. **89k:68120**

Lipski, Witold, Jr. (*with* Preparata, F. P.) A unified approach to layout wirability. **89a:68174**
Lloyd, Errol L. (*with* Soffa, Mary Lou; Wang, Ching-Chy) On locating minimum feedback vertex sets. **89k:68121**
Lu, Chang Shun *see* **Chi, Zhong Xian; et al.**, (Not in MR)
Malyshko, V. V. *see* **Klebanovich, D. M., 89a:68173**
Mao, Yu Cui *see* **Chi, Zhong Xian; et al.**, (Not in MR)
Margulis, G. A. Explicit group-theoretic constructions of combinatorial schemes and their applications in the construction of expanders and concentrators. **89f:68054**
Maruoka, A. *see* **Jimbo, Shuji, 89d:68071**
Masuda, Sumio (*with* Nakajima, Kazuo) An optimal algorithm for finding a maximum independent set of a circular-arc graph. **89e:68101**
Miller, Z. *see* **Goldberg, Mark K., 89k:68119**
Mukherjee, Phalguni (*with* Sengupta, Indranil) Determination of vertex cutsets of a graph. **89h:68121**
Nakajima, Kazuo *see* **Masuda, Sumio, 89e:68101**
Pallo, J. Some properties of the rotation lattice of binary trees. **89k:68122**
Pandu Rangan, C. *see* **Ramalingam, G., 89i:68102**
Paterson, M. S. Universal chains and wiring layouts. **89d:68072**
Peleg, David (*with* Simons, Barbara) On fault tolerant routings in general networks. **89a:68175**
Petreschi, R. *see* **Bovet, Daniel P.; et al., 89k:68116**
Pinter, Shlomit S. (*with* Wolfstahl, Yaron) Embedding ternary trees in VLSI arrays. **89a:68176**
Preparata, F. P. *see* **Lipski, Witold, Jr., 89a:68174**
Prodinger, Helmut Some recent results on the register function of a binary tree. **89g:68058**
Pudlák, Pavel (*with* Rödl, Vojtěch; Savický, Petr) Graph complexity. **89k:68123**
Ramalingam, G. (*with* Pandu Rangan, C.) Total domination in interval graphs revisited. **89i:68102**
Ratliff, H. Donald *see* **Iyer, Ananth V.; et al., 89h:68119**
Ravi, S. S. (*with* Hunt, H. B., III) An application of the planar separator theorem to counting problems. **89a:68177**
Reif, John H. A topological approach to dynamic graph connectivity. **89a:68178**
Rinnooy Kan, A. H. G. *see* **Frenk, J. B. G.; et al., 89d:68069**
Rödl, Vojtěch *see* **Pudlák, Pavel; et al., 89k:68123**
Romeuf, Jean-François Shortest path under rational constraint. **89j:68124**
Sahni, Sartaj *see* **Bhasker, Jayaram, 89j:68118**
Sakamoto, Akio *see* **Shimamoto, Takashi; et al., 89m:68113**
Savický, Petr *see* **Pudlák, Pavel; et al., 89k:68123**
Schäffer, Alejandro A. *see* **Haddad, Ramsey W., 89m:68111**
Schwer, S. R. Dépliage d'un graphe pointé en un cactus. (English summary) [Unfolding of a rooted graph into a cactus] **89c:68082**
Segal, Moshe (*with* Topkis, Donald M.) Acyclic k-connected subgraphs for distributed alternate routing in communications networks. **89m:68112**
Sengupta, Indranil *see* **Mukherjee, Phalguni, 89h:68121**
Sheu, J. P. *see* **Ch'ên, Chien Hui; et al., 89e:68100**
Shimamoto, Takashi (*with* Sakamoto, Akio; Ushida, Akio) On routability for channel routing problem. **89m:68113**
Siegrist, K. T. *see* **Amin, A. T.; et al., 89h:68118**
Simons, Barbara *see* **Peleg, David, 89a:68175**
Slater, P. J. *see* **Amin, A. T.; et al., 89h:68118**
Soffa, Mary Lou *see* **Lloyd, Errol L.; et al., 89k:68121**
Soroker, Danny Fast parallel strong orientation of mixed graphs and related augmentation problems. **89d:68073**
Tardos, Gábor Polynomial bound for a chip firing game on graphs. **89i:68103**
Topkis, Donald M. *see* **Segal, Moshe, 89m:68112**
Tsutsui, Shigeyoshi (*with* Asai, Kiyoji) System deadlock prevention design in real-time computer systems. (Not in MR)
Ushida, Akio *see* **Shimamoto, Takashi; et al., 89m:68113**
Vaidya, Pravin Minimum spanning trees in k-dimensional space. **89i:68104**
Vaĭnshteĭn, Yu. B. Consideration of component pin orientations in an algorithm for the planarization of circuit graphs. (Russian. English and Georgian summaries) (Not in MR)
Venkatesan, Shankar M. Improved constants for some separator theorems. **89a:68179**
— Approximation algorithms for weighted matching. **89k:68124**
Vijayan, G. *see* **Iyer, Ananth V.; et al., 89h:68119**
Wang, Ching-Chy *see* **Lloyd, Errol L.; et al., 89k:68121**
West, Douglas B. (*with* Banerjee, Prithviraj) On the construction of communication networks satisfying bounded fan-in of service ports. **89h:68122**
Wimer, Shmuel (*with* Koren, I.; Cederbaum, Israel) Floorplans, planar graphs, and layouts. **89a:68180**
Wolfstahl, Yaron *see* **Pinter, Shlomit S., 89a:68176**
Yajima, Shuzo *see* **Hiraishi, Hiromi; et al.**, (Not in MR)
Yao, Rong *see* **Chen, Ting Huai; et al., 89m:68109**
Zuo, Kai *see* **Chi, Zhong Xian; et al.**, (Not in MR)

Items with secondary classifications in 68R10

Agarwal, Krishna K. *see* **Benstock, Joseph D.; et al., 89c:92095**
Aggarwal, Alok (*with* Anderson, Richard John) A random $\mathcal{NC}$ algorithm for depth first search. **89m:68054**
Alon, Noga (*with* Galil, Zvi; Milman, Vitali D.) Better expanders and superconcentrators. **89f:68023**
Anderson, James R. *see* **Peterson, Carsten, 89d:90176**
Anderson, Richard John A parallel algorithm for the maximal path problem. **89e:68042**
— *see also* **Aggarwal, Alok, 89m:68054**
Androsov, S. M. (*with* Gluzman, B. Yu.; Oślon, V. A.) Methods for the program realization of algorithms for searching for the shortest distances on a graph in a transportation automatic control system. (Russian. English summary) **89f:05105**
Apostolico, Alberto (*with* Hambrusch, Susanne E.) Finding maximum cliques on circular-arc graphs. **89a:68094**
Arbib, Claudio A polynomial characterization of some graph partitioning problems. **89e:68043**
Arocha Pérez, Jorge Luis Computational complexity of existence problems for matchings in graphs. (Spanish. English summary) **89a:68095**
Asel'derova, I. M. Optimal coding of some arithmetic graphs. (Russian) **89b:05110**
Atallah, Mikhail J. (*with* Manacher, Glenn K.; Urrutia, Jorge) Finding a minimum independent dominating set in a permutation graph. **89j:05042**
Atkinson, Michael D. (*with* Ng, D. T. H.) On the width of an orientation of a tree. **89i:06001**
Awerbuch, B. (*with* Israeli, A.; Shiloach, Y.) Finding Euler circuits in logarithmic parallel time. **89f:68015**
Balasubramanian, K. Computational graph theory. **89g:92074**
Ball, Michael O. *see* **Ramesh, Aparna; et al., 89c:68012**
Ballesteros, J. *see* **Sánchez P., J. M., 89k:68078**
Barendregt, H. P. (*with* van Eekelen, M. C. J. D.; Plasmeijer, M. J.; Glauert, J. R. W.; Kennaway, J. Richard; Sleep, M. R.) LEAN: an intermediate language based on graph rewriting. (*see* **89j:68053**)
Bauernöppel, Frank Degree bounds and sub-Hamiltonian cycles in planar graphs. **89d:68025**
Benstock, Joseph D. (*with* Berndt, Donald J.; Agarwal, Krishna K.) Graph embedding in SYNCHEM2, an expert system for organic synthesis discovery. **89c:92095**
Berndt, Donald J. *see* **Benstock, Joseph D.; et al., 89c:92095**
Bertossi, Alan A. On the domatic number of interval graphs. **89h:68054**
— (*with* Gori, Alessandro) Total domination and irredundance in weighted interval graphs. **89m:68055**
Bhasker, Jayaram (*with* Sahni, Sartaj) A linear algorithm to find a rectangular dual of a planar triangulated graph. **89a:68081**
Bienstock, Daniel Broadcasting with random faults. **89b:68013**
— (*with* Monma, Clyde L.) On the complexity of covering vertices by faces in a planar graph. **89d:05064**
Bixby, Robert E. (*with* Wagner, Donald K.) An almost linear-time algorithm for graph realization. **89f:05117**
Blumer, A. (*with* Blumer, J.; Haussler, D.; McConnell, R.; Ehrenfeucht, Andrzej) Complete inverted files for efficient text retrieval and analysis. **89h:68028**
Blumer, J. How much is that DAWG in the window? A moving window algorithm for the directed acyclic word graph. **89a:68082**
— *see also* **Blumer, A.; et al., 89h:68028**
Boals, A. J. (*with* Williams, Kenneth L.) Optimizing subcase solutions for (M, N)-transitivity. (*see* **89d:00007**)
Bollobás, B. (*with* Fenner, T. I.; Frieze, A. M.) An algorithm for finding Hamilton paths and cycles in random graphs. **89h:05049**
Brandstädt, Andreas (*with* Spinrad, Jeremy; Stewart, Lorna) Bipartite permutation graphs are bipartite tolerance graphs. **89j:05059**
— *see also* **Müller, Haiko, 89a:68106** *and* **Spinrad, Jeremy; et al., 89c:05064**
Brecht, Timothy B. (*with* Colbourn, Charles J.) Lower bounds on two-terminal network reliability. **89m:68008**
Broder, Andrei (*with* Dolev, Danny; Fischer, Michael) Efficient fault-tolerant routings in networks. **89f:68007**
Broy, Manfred Nondeterministic data flow programs: how to avoid the merge anomaly. **89b:68016**
Cai, Guo-Ray (*with* Sun, Yu-Geng) The minimum augmentation of any graph to a K-edge-connected graph. **89i:05154**
Cantone, D. (*with* Ghelfo, Susanna; Omodeo, E. G.) The automation of syllogistic. I. Syllogistic normal forms. **89i:68111**
Chang, Chên Hua Labeling algorithms for domination problems in sun-free chordal graphs. **89i:05155**
Chang, Suk-gwon Optimal trade-off among delay, throughput and fairness in flow controlled networks. (*see* **89f:00029**)
Chaudhuri, Pranay Fast parallel graph searching with applications. **89a:68083**
Chegireddy, Chandra R. (*with* Hamacher, Horst W.) Algorithms for finding K-best perfect matchings. **89j:90209**
Chen, Jason S. J. (*with* Li, Victor O. K.) Optimizing joins in fragmented database systems on a broadcast local network. (Not in MR)
Cherkasskiĭ, B. V. A new algorithm for the generation of spanning trees. (Russian. English summary) **89a:05052**
Cherkassky, Vladimir (*with* Malek, Miroslaw) Partitioning and permuting properties of CC-banyan networks. **89k:68004**
Chernyak, A. A. Pseudodominant-threshold graphs. I. (Russian. English summary) **89k:05047**
Chiba, N. *see* **Nishizeki, T., 89f:05068**
Chlebus, Bogdan S. Proving NP-completeness using bounded tiling. (German and Russian summaries) **89c:05034**
Chomut, Tuval *see* **Inselberg, Alfred; et al., 89a:68207**
Chrobak, Marek (*with* Poljak, Svatopluk) A generalization of Smith's theorem. **89f:05133**
Chung, F. R. K. (*with* Graham, R. L.; Saks, M. E.) Dynamic search in graphs. **89e:05183**
Clark, Lane H. (*with* Entringer, R. C.; Fellows, Michael R.) Computational complexity of integrity. **89c:05046**
Colbourn, Charles J. Network resilience. **89j:68067**
— (*with* Jungnickel, Dieter; Rosa, Alexander) The strong chromatic number of partial triple systems. **89c:05021**
— Edge-packings of graphs and network reliability. **89k:05081**
— *see also* **Ramesh, Aparna; et al., 89c:68012; El-Mallah, Ehab S., 89i:05159** *and* **Brecht, Timothy B., 89m:68008**
Cole, Richard (*with* Vishkin, Uzi) The accelerated centroid decomposition technique for optimal parallel tree evaluation in logarithmic time. **89g:68012**
Conforti, Michele (*with* Corneil, D. G.; Mahjoub, Ali Ridha) K_i-covers. II. K_i-perfect graphs. **89i:05210**
— (*with* Rao, M. R.) Structural properties and recognition of restricted and strongly unimodular matrices. **89b:90144**
Corneil, D. G. *see* **Conforti, Michele; et al., 89i:05210**

Cozzens, Margaret B. (*with* Wu, Shu Shih Y.) On minimum critically n-edge-connected graphs. **89a:05099**

Culberson, J. (*with* Munro, J. I.) Explaining the behaviour of binary search trees under prolonged updates: a model and simulations. (Not in MR)

Cunto, Walter (*with* Poblete, Patricio V.) Transforming unbalanced multiway trees into a practical external data structure. **89k:68019**

Dagan, Ido (*with* Golumbic, Martin Charles; Pinter, Ron Yair) Trapezoid graphs and their coloring. **89i:05115**

Das, Sajal K. (*with* Deo, Narsingh) Divide-and-conquer-based optimal parallel algorithms for some graph problems on EREW PRAM model. **89d:68017**

D'Atri, Alessandro (*with* Moscarini, Marina) On hypergraph acyclicity and graph chordality. **89m:68022**

— (*with* Moscarini, Marina) Distance-hereditary graphs, Steiner trees, and connected domination. **89f:05066**

(Dauchet, M.) *see* **CAAP '88, 89c:68003**

Dearholt, D. W. *see* **Schvaneveldt, R. W.; et al., 89e:92058**

Degano, Pierpaolo (*with* Montanari, Ugo) A model for distributed systems based on graph rewriting. **89a:68064**

Deo, Narsingh *see* **Das, Sajal K., 89d:68017**

Devroye, Luc Applications of the theory of records in the study of random trees. **89m:60027**

— The expected size of some graphs in computational geometry. **89g:68067**

Didmanidze, I. Sh. A local algorithm for finding the diameter in an acyclic graph. (Russian. English and Georgian summaries) **89i:05126**

Dilger, Werner (*with* Janson, Agnes) Intelligent backtracking in deduction systems by means of extended unification graphs. **89h:68131**

Divoky, James J. *see* **Hung, Ming S., 89j:90093**

Djidjev, H. N. On the constants of separator theorems. **89d:05065**

Dolev, Danny *see* **Broder, Andrei; et al., 89f:68007** *and* **Siegel, Alan, 89h:68073**

Durso, F. T. *see* **Schvaneveldt, R. W.; et al., 89e:92058**

van Eekelen, M. C. J. D. *see* **Barendregt, H. P.; et al., (89j:68053)**

Ehrenfeucht, Andrzej *see* **Blumer, A.; et al., 89h:68028**

El-Mallah, Ehab S. (*with* Colbourn, Charles J.) Edge detection problems: properties defined by weakly connected forbidden graphs. **89i:05159**

Entringer, R. C. *see* **Clark, Lane H.; et al., 89c:05046**

Erdős, Paul (*with* Koren, I.; Moran, Shlomo; Silberman, G. M.; Zaks, S.) Minimum-diameter cyclic arrangements in mapping data-flow graphs onto VLSI arrays. **89k:68077**

Escudero, M. (*with* Fàbrega, J.; Morillo, P.) Fault-tolerant routings in double-loop networks. **89c:68010**

Esfahanian, Abdol Hossein (*with* Hakimi, S. Louis) On computing a conditional edge-connectivity of a graph. **89c:05051**

Fàbrega, J. *see* **Escudero, M.; et al., 89c:68010**

Farr, Graham The complexity of multicolouring. **89d:68027**

Federickson, Greg N. Fast algorithms for shortest paths in planar graphs, with applications. **89g:68024**

Fellows, Michael R. (*with* Hickling, F.; Syslo, Maciej M.) A topological parameterization and hard graph problems (extended abstract). **89i:05102**

— (*with* Friesen, Donald K.; Langston, Michael A.) On finding optimal and near-optimal lineal spanning trees. **89m:68040**

— *see also* **Clark, Lane H.; et al., 89c:05046**

Fenner, T. I. *see* **Bollobás, B.; et al., 89h:05049**

Fernández-Baca, David (*with* Slutzki, Giora) Solving parametric problems on trees. **89e:68099**

— Nonserial dynamic programming formulations of satisfiability. **89m:68048**

Fischer, Michael *see* **Broder, Andrei; et al., 89f:68007**

Fogel, D. B. An evolutionary approach to the traveling salesman problem. **89j:90090**

Frank, András On connectivity properties of Eulerian digraphs. **89m:05076**

Frederickson, Greg N. (*with* Srinivas, Mandayam A.) On-line updating of solutions to a class of matroid intersection problems. **89m:05033**

— (*with* Hambrusch, Susanne E.) Planar linear arrangements of outerplanar graphs. **89b:05078**

Friesen, Donald K. *see* **Fellows, Michael R.; et al., 89m:68040**

Frieze, A. M. On the exact solution of random travelling salesman problems with medium size integer coefficients. **89g:90104**

— An algorithm for finding Hamilton cycles in random directed graphs. **89j:05064**

— Finding Hamilton cycles in sparse random graphs. **89h:05050**

— *see also* **Bollobás, B.; et al., 89h:05049**

Furst, Merrick L. (*with* Gross, Jonathan L.; McGeoch, Lyle A.) Finding a maximum-genus graph imbedding. **89i:68049**

Gabow, Harold N. (*with* Tarjan, Robert E.) A linear-time algorithm for finding a minimum spanning pseudoforest. **89e:68047**

— (*with* Tarjan, Robert E.) Algorithms for two bottleneck optimization problems. **89h:90185**

Galil, Zvi (*with* Hoffmann, Christoph; Luks, E. M.; Schnorr, C.-P.; Weber, Andreas) An $O(n^3\log n)$ deterministic and an $O(n^3)$ Las Vegas isomorphism test for trivalent graphs. **89c:68043**

— (*with* Tardos, Éva) An $O(n^2(m+n\log n)\log n)$ min-cost flow algorithm. **89f:90048**

— *see also* **Alon, Noga; et al., 89f:68023**

Gallo, Giorgio (*with* Pallottino, Stefano) Shortest path algorithms. **89f:90049**

Garey, M. R. *see* **Megiddo, Nimrod; et al., 89d:68030**

Garzon, Max Symplectic embeddings of graphs. **89b:05079**

Gasparyan, G. S. *see* **Markosyan, S. E., 89c:05062**

Gavril, Fănică Generating the maximum spanning trees of a weighted graph. **89a:68099**

Gazit, Hillel (*with* Miller, Gary L.) An improved parallel algorithm that computes the BFS numbering of a directed graph. **89j:68045**

Ghelfo, Susanna *see* **Cantone, D.; et al., 89i:68111**

Gibbons, Alan (*with* Israeli, A.; Rytter, Wojciech) Parallel $O(\log n)$ time edge-colouring of trees and Halin graphs. **89a:68100**

Glauert, J. R. W. *see* **Barendregt, H. P.; et al., (89j:68053)**

Gluzman, B. Yu. *see* **Androsov, S. M.; et al., 89f:05105**

Goetze, B. *see* **Kochetkov, D. V.; et al., 89j:94045**

Golumbic, Martin Charles Algorithmic aspects of intersection graphs and representation hypergraphs. **89i:05207**

— (*with* Hammer, P. L.) Stability in circular arc graphs. **89g:05061**

— *see also* **Dagan, Ido; et al., 89i:05115**

Gondran, Michel (*with* Minoux, M.) ★ Graphes et algorithmes. (French) [Graphs and algorithms] **89i:90090**

Gori, Alessandro *see* **Bertossi, Alan A., 89m:68055**

Gotoh, Shin'ya *see* **Ueno, Shuichi; et al., 89k:05085**

Grabska, Ewa (*with* Skrzyńska, Maria) Construction and equivalency problem for one-terminal-step graph-grammars. (Russian and Polish summaries) **89h:68092**

Graham, Niall (*with* Harary, Frank) The number of perfect matchings in a hypercube. (Not in MR)

Graham, R. L. *see* **Chung, F. R. K.; et al., 89e:05183**

Gronau, H.-D. O. F. (*with* Just, Winfried; Schade, W.; Scheffler, Petra; Wojciechowski, J.) Path systems in acyclic directed graphs. **89i:05128**

Gross, Jonathan L. *see* **Furst, Merrick L.; et al., 89i:68049**

Gu, Xin Li *see* **Wang, Xie Hua, (Not in MR)**

Hakimi, S. Louis (*with* Schmeichel, E. F.) A note on the vertex arboricity of a graph. **89k:05050**

— *see also* **Esfahanian, Abdol Hossein, 89c:05051** *and* **Megiddo, Nimrod; et al., 89d:68030**

Hamacher, Horst W. *see* **Chegireddy, Chandra R., 89j:90209**

Hambrusch, Susanne E. *see* **Apostolico, Alberto, 89a:68094** *and* **Frederickson, Greg N., 89b:05078**

Hammer, P. L. *see* **Golumbic, Martin Charles, 89g:05061**

Harary, Frank *see* **Graham, Niall, (Not in MR)**

Haussler, D. *see* **Blumer, A.; et al., 89h:68028**

He, Xin (*with* Yesha, Yaacov) A nearly optimal parallel algorithm for constructing depth first spanning trees in planar graphs. **89e:05071**

He, Zhi Jun *see* **Zhang, Wei; et al., 89k:68075**

Herndon, W. C. Graph codes and a definition of structural similarity. **89f:92079**

Hickling, F. *see* **Fellows, Michael R.; et al., 89i:05102**

Hillion, H. P. (*with* Proth, J.-M.) Analyse de fabrications non linéaires et répétitives à l'aide de graphes d'événements temporisés. (English summary) [Analysis of nonlinear repetitive processing by means of timed event graphs] **89g:90129**

Ho, Chin Wen (*with* Lee, Richard C. T.) Efficient parallel algorithms for finding maximal cliques, clique trees, and minimum coloring on chordal graphs. **89k:68055**

Hoang, C. T. (*with* Reed, B. A.) P_4-comparability graphs. **89m:05098**

Hoffmann, Berthold (*with* Plump, Detlef) Jungle evaluation for efficient term rewriting. (*see* **89j:68002**)

Hoffmann, Christoph *see* **Galil, Zvi; et al., 89c:68043**

Hoffmann, Frank (*with* Kriegel, Klaus) Embedding rectilinear graphs in linear time. **89k:68056**

Homobono, Nathalie (*with* Peyrat, C.) Connectivity of Imase and Itoh digraphs. **89k:05041**

Horibe, Yasuichi Entropy of terminal distributions and the Fibonacci trees. **89f:05061**

Hsu, Wen-Lian The coloring and maximum independent set problems on planar perfect graphs. **89m:68049**

Hung, Ming S. (*with* Divoky, James J.) A computational study of efficient shortest path algorithms. **89j:90093**

Imase, Makoto (*with* Manabe, Yoshifumi) Fault-tolerant routing in a κ-connected network. **89k:68005**

— *see also* **Waxman, Bernard M., 89k:68073**

Inselberg, Alfred (*with* Chomut, Tuval; Reif, Mordechai) Convexity algorithms in parallel coordinates. **89a:68207**

Ishizuka, Akio *see* **Kajitani, Yoji; et al., 89h:05024**

Israeli, A. *see* **Gibbons, Alan; et al., 89a:68100** *and* **Awerbuch, B.; et al., 89f:68015**

Itai, Alon (*with* Rodeh, Michael) The multi-tree approach to reliability in distributed networks. **89k:68006**

Jain, Anjani (*with* Mamer, John W.) Approximations for the random minimal spanning tree with application to network provisioning. **89h:90188**

Ja'Ja', Joseph (*with* Kosaraju, S. Rao) Parallel algorithms for planar graph isomorphism and related problems. **89g:68026**

Janson, Agnes *see* **Dilger, Werner, 89h:68131**

Jayakumar, R. (*with* Thulasiraman, K.; Swamy, M. N. S.) Planar embedding: linear-time algorithms for vertex placement and edge ordering. **89b:05080**

Johnson, David Stifler (*with* Yannakakis, Mihalis; Papadimitriou, Christos H.) On generating all maximal independent sets. **89e:68051**

— *see also* **Megiddo, Nimrod; et al., 89d:68030**

Jung, Hermann (*with* Mehlhorn, Kurt) Parallel algorithms for computing maximal independent sets in trees and for updating minimum spanning trees. **89f:68025**

Jungnickel, Dieter *see* **Colbourn, Charles J.; et al., 89c:05021**

Just, Winfried *see* **Gronau, H.-D. O. F.; et al., 89i:05128**

Kajitani, Yoji (*with* Ishizuka, Akio; Ueno, Shuichi) Characterization of partial 3-trees in terms of three structures. **89h:05024**

— *see also* **Ueno, Shuichi; et al., 89k:05085**

Karchmer, Mauricio (*with* Naor, Joseph) A fast parallel algorithm to color a graph with Δ colors. **89i:05118**

Karp, Richard M. (*with* Upfal, Eli; Wigderson, Avi) The complexity of parallel search. **89i:68037**

Karpiński, M. (*with* Wagner, Klaus Werner) The computational complexity of graph problems with succinct multigraph representation. (German summary) **89e:68052**

Kasymova, Zh. S. Nontrivial methods for the detection of regularities. (Russian) **89i:68117**

Kawaguchi, Kimio *see* **Wada, Koichi; et al., 89b:68015**

Kemp, Rainer The analysis of an additive weight of random trees. (German and Russian summaries) **89i:68058**

Kennaway, J. Richard *see* **Barendregt, H. P.; et al., (89j:68053)**

Kinnen, Edwin *see* **Kózmiński, Krzysztof A., 89k:94108**

Kirkpatrick, David Establishing order in planar subdivisions. **89g:68068**

Kirousis, Lefteris M. (*with* Papadimitriou, Christos H.) Searching and pebbling. **89a:68073**

Kocay, W. L. Abstract data types and graph isomorphism. **89k:68018**

Kochetkov, D. V. (*with* Goetze, B.; Nehrlich, W.) Construction of maximal partial intervals. (German and Russian summaries) **89j:94045**
Kopf, Roland (*with* Ruhe, G.) A computational study of the weighted independent set problem for general graphs. **89f:05102**
Korach, E. (*with* Moran, Shlomo; Zaks, S.) The optimality of distributive constructions of minimum weight and degree restricted spanning trees in a complete network of processors. **89b:68012**
Koren, I. *see* **Erdős, Paul; et al., 89k:68077**
Körner, J. (*with* Marton, K.) Graphs that split entropies. **89k:05083**
Kosaraju, S. Rao *see* **Ja'Ja', Joseph, 89g:68026**
Kózmiński, Krzysztof A. (*with* Kinnen, Edwin) Rectangular dualization and rectangular dissections. **89k:94108**
Kriegel, Klaus *see* **Hoffmann, Frank, 89k:68056**
Křivánek, Mirko The complexity of ultrametric partitions on graphs. **89h:68064**
Kul′ba, A. V. *see* **Makarov, I. M.; et al., 89k:68112**
Lai, Ten Hwang (*with* Sprague, Alan) On the routability of a convex grid. **89e:90086**
Langston, Michael A. *see* **Fellows, Michael R.; et al., 89m:68040**
Lautemann, Clemens Decomposition trees: structured graph representation and efficient algorithms. **89m:68062**
Lee, Richard C. T. *see* **Ho, Chin Wen, 89k:68055**
Leiss, Ernst L. On the degree of dominator trees. (Not in MR)
Lengauer, Thomas (*with* Wanke, Egon) Efficient solution of connectivity problems on hierarchically defined graphs. **89m:05077**
Levy, Hanoch (*with* Low, David W.) A contraction algorithm for finding small cycle cutsets. **89i:05165**
Li, Guang *see* **Yang, Chao Chih; et al., 89j:68031**
Li, Ke *see* **Zhu, Hong^1, 89j:68032**
Li, Ming^1 A separator theorem for one-dimensional graphs under linear mapping. **89d:05164**
Li, Victor O. K. *see* **Chen, Jason S. J.**, (Not in MR)
Liestman, Arthur L. (*with* Peters, Joseph G.) Broadcast networks of bounded degree. **89k:94110**
Lin, Guo Ning *see* **Zhang, Fu Ji; et al., 89d:05145**
Lingas, Andrzej A new heuristic for minimum weight triangulation. **89h:68116**
Linial, Nathan (*with* Lovász, L.; Wigderson, Avi) Rubber bands, convex embeddings and graph connectivity. **89i:05187**
Liu, Gui Zhen An algorithm for generating ordered forests lexicographically. (Chinese) **89h:05025**
Lovász, L. *see* **Linial, Nathan; et al., 89i:05187**
Low, David W. *see* **Levy, Hanoch, 89i:05165**
Lucas, Joan M. The rotation graph of binary trees is Hamiltonian. **89a:68028**
Luks, E. M. *see* **Galil, Zvi; et al., 89c:68043**
Luo, Yupin *see* **Wada, Koichi; et al., 89b:68015**
Madan, B. B. *see* **Zubair, M., 89a:68111**
Maggs, Bruce M. (*with* Plotkin, Serge A.) Minimum-cost spanning tree as a path-finding problem. **89a:68091**
Mahadev, N. V. R. (*with* Peled, U. N.) Strict 2-threshold graphs. **89i:05234**
Mahjoub, Ali Ridha *see* **Conforti, Michele; et al., 89i:05210**
Makarov, I. M. (*with* Nazaretov, V. M.; Kul′ba, A. V.; Shvetsov, A. R.) Petri nets with multicolor markers. **89k:68112**
Mäkinen, Erkki On the rotation distance of binary trees. **89a:05055**
Malek, Miroslaw *see* **Cherkassky, Vladimir, 89k:68004**
Mamer, John W. *see* **Jain, Anjani, 89h:90188**
Manabe, Yoshifumi *see* **Imase, Makoto, 89k:68005**
Manacher, Glenn K. *see* **Atallah, Mikhail J.; et al., 89j:05042**
Markosyan, S. E. (*with* Gasparyan, G. S.) ω-perfect graphs. (Russian. English and Armenian summaries) **89c:05062**
Marton, K. *see* **Körner, J., 89k:05083**
Matoušek, Jiří (*with* Nešetřil, Jaroslav; Thomas, Robin) On polynomial time decidability of induced-minor-closed classes. **89m:68050**
McConnell, R. *see* **Blumer, A.; et al., 89h:68028**
McGeoch, Lyle A. *see* **Furst, Merrick L.; et al., 89i:68049**
McKee, T. A. A local analogy between directed and signed graphs. **89a:05075**
Megiddo, Nimrod (*with* Hakimi, S. Louis; Garey, M. R.; Johnson, David Stifler; Papadimitriou, Christos H.) The complexity of searching a graph. **89d:68030**
Mehlhorn, Kurt A faster approximation algorithm for the Steiner problem in graphs. **89d:68031**
— *see also* **Jung, Hermann, 89f:68025**
Meinel, Christoph A complexity theoretic parade of network-flow-problems. **89k:90056**
Meir, A. A geometric problem involving the nearest neighbour algorithm. **89a:90056**
Mikhaĭlov, A. S. Graph identification by simulated annealing. **89f:05139**
Miller, Gary L. *see* **Gazit, Hillel, 89j:68045**
Miller, Z. A linear algorithm for topological bandwidth in degree-three trees. **89j:05067**
Milman, Vitali D. *see* **Alon, Noga; et al., 89f:68023**
Minoux, M. *see* **Gondran, Michel, 89i:90090**
Mittal, Hari Ballabh A fast backtrack algorithm for graph isomorphism. **89j:68062**
Moffat, A. (*with* Takaoka, Tadao) An all pairs shortest path algorithm with expected time $O(n^2 \log n)$. **89c:68050**
Mohr, Th. (*with* Pasche, C.) A parallel shortest path algorithm. (German summary) **89j:90256**
Monma, Clyde L. *see* **Bienstock, Daniel, 89d:05064**
Montanari, Ugo *see* **Degano, Pierpaolo, 89a:68064**
Moran, Shlomo (*with* Wolfstahl, Yaron) Extended impossibility results for asynchronous complete networks. **89f:68008**
— *see also* **Korach, E.; et al., 89b:68012** *and* **Erdős, Paul; et al., 89k:68077**
Morillo, P. *see* **Escudero, M.; et al., 89c:68010**
Moscarini, Marina *see* **D'Atri, Alessandro, 89f:05066** *and* **89m:68022**
Mukherjee, Phalguni (*with* Sengupta, Indranil; Mukherjee, Triptimoy) An algorithmic approach for determining the complete k-partiteness of a graph. **89i:05199**
Mukherjee, Triptimoy *see* **Mukherjee, Phalguni; et al., 89i:05199**
Müller, Haiko (*with* Brandstädt, Andreas) The NP-completeness of STEINER TREE and DOMINATING SET for chordal bipartite graphs. **89a:68106**
Mulmuley, Ketan (*with* Vazirani, Umesh V.; Vazirani, Vijay V.) Matching is as easy as matrix inversion. **89a:68092**
Munro, J. I. *see* **Culberson, J.**, (Not in MR)
Naor, Joseph (*with* Naor, Moni; Schäffer, Alejandro A.) Fast parallel algorithms for chordal graphs. **89m:68052**
— *see also* **Karchmer, Mauricio, 89i:05118**
Naor, Moni *see* **Naor, Joseph; et al., 89m:68052**
Nazaretov, V. M. *see* **Makarov, I. M.; et al., 89k:68112**
Nehrlich, W. *see* **Kochetkov, D. V.; et al., 89j:94045**
Nešetřil, Jaroslav *see* **Matoušek, Jiří; et al., 89m:68050**
Ng, D. T. H. *see* **Atkinson, Michael D., 89i:06001**
Ng, Peter Ann-Beng *see* **Yang, Chao Chih; et al., 89j:68031**
Nishizeki, T. (*with* Chiba, N.) ★ Planar graphs: theory and algorithms. **89f:05068**
(Nivat, M.) *see* **CAAP '88, 89c:68003**
Olariu, Stephan Paw-free graphs. **89h:05033**
Omodeo, E. G. *see* **Cantone, D.; et al., 89i:68111**
Ordman, Edward T. Minimal threshold separators and memory requirements for synchronization. **89k:68045**
Oslon, V. A. *see* **Androsov, S. M.; et al., 89f:05105**
Pallottino, Stefano *see* **Gallo, Giorgio, 89f:90049**
Pandu Rangan, C. *see* **Ramalingam, G., 89i:68061**
Papadimitriou, Christos H. *see* **Kirousis, Lefteris M., 89a:68073; Megiddo, Nimrod; et al., 89d:68030** *and* **Johnson, David Stifler; et al., 89e:68051**
Pasche, C. *see* **Mohr, Th., 89j:90256**
Peled, U. N. *see* **Mahadev, N. V. R., 89i:05234**
Peters, Joseph G. *see* **Liestman, Arthur L., 89k:94110**
Peterson, Carsten (*with* Anderson, James R.) Neural networks and NP-complete optimization problems; a performance study on the graph bisection problem. **89d:90176**
Peyrat, C. *see* **Homobono, Nathalie, 89k:05041**
Pinter, Ron Yair *see* **Dagan, Ido; et al., 89i:05115**
Plasmeijer, M. J. *see* **Barendregt, H. P.; et al., (89j:68053)**
Plotkin, Serge A. *see* **Maggs, Bruce M., 89a:68091**
Plump, Detlef *see* **Hoffmann, Berthold, (89j:68002)**
Poblete, Patricio V. *see* **Cunto, Walter, 89k:68019**
Poljak, Svatopluk *see* **Chrobak, Marek, 89f:05133**
Prohazka, Craig G. Bounding the maximum size of a packet radio network. (Not in MR)
Proth, J.-M. *see* **Hillion, H. P., 89g:90129**
Provan, J. Scott Shortest enclosing walks and cycles in embedded graphs. **89k:68149**
Ragde, Prabhakar (*with* Steiger, William; Szemerédi, Endre; Wigderson, Avi) The parallel complexity of element distinctness is $\Omega\sqrt{\log n}$. **89j:68049**
Ramalingam, G. (*with* Pandu Rangan, C.) A unified approach to domination problems on interval graphs. **89i:68061**
Ramesh, Aparna (*with* Ball, Michael O.; Colbourn, Charles J.) Bounds for all-terminal reliability in planar networks. **89c:68012**
Rao, M. R. *see* **Conforti, Michele, 89b:90144**
Rao, S. B. Characterizations of harmonious marked graphs and consistent nets. **89h:05048**
Reed, B. A. *see* **Hoang, C. T., 89m:05098**
Reibiger, Albrecht Grundlagen der Netzwerktheorie. [The foundations of network theory] (Not in MR)
Reif, Mordechai *see* **Inselberg, Alfred; et al., 89a:68207**
Robert, Yves Systolic algorithms for path-finding problems. (*see* **89c:68078**)
Robertson, Neil (*with* Seymour, Paul D.) Graph minors. V. Excluding a planar graph. **89m:05070**
— (*with* Seymour, Paul D.) Graph minors. VI. Disjoint paths across a disc. **89m:05071**
— (*with* Seymour, Paul D.) Graph minors. VII. Disjoint paths on a surface. **89m:05072**
Rodeh, Michael *see* **Itai, Alon, 89k:68006**
Roelants van Baronaigien, D. (*with* Ruskey, Frank) A Hamilton path in the rotation lattice of binary trees. **89d:05063**
— (*with* Ruskey, Frank) Generating t-ary trees in A-order. (Not in MR)
Rosa, Alexander *see* **Colbourn, Charles J.; et al., 89c:05021**
Ruhe, G. *see* **Kopf, Roland, 89f:05102**
Ruskey, Frank Adjacent interchange generation of combinations. **89d:68066**
— *see also* **Roelants van Baronaigien, D., 89d:05063** *and* (Not in MR)
Rytter, Wojciech On efficient parallel computations of costs of paths on a grid graph. **89j:68071**
— *see also* **Gibbons, Alan; et al., 89a:68100**
Sahni, Sartaj *see* **Bhasker, Jayaram, 89a:68081**
Saks, M. E. *see* **Chung, F. R. K.; et al., 89e:05183**
Sánchez P., J. M. (*with* Ballesteros, J.) A graph-based method for PLA folding. (Spanish) **89k:68078**
Sandhu, Ravinderpal Singh The reflected tree hierarchy for protection and sharing. **89m:68011**
Savage, John E. (*with* Vitter, Jeffrey Scott) Parallelism in space-time trade-offs. **89g:68014**
Schade, W. *see* **Gronau, H.-D. O. F.; et al., 89i:05128**
Schäffer, Alejandro A. *see* **Naor, Joseph; et al., 89m:68052**
Scheffler, Petra *see* **Gronau, H.-D. O. F.; et al., 89i:05128**
Scheinerman, Edward R. Almost sure fault tolerance in random graphs. **89c:94053**
Schevon, Catherine A. (*with* Vitter, Jeffrey Scott) A parallel algorithm for recognizing unordered depth-first search. **89j:68052**
Schiermeyer, Ingo A polynomial algorithm for Hamiltonian graphs based on transformations. **89i:05193**
Schmeichel, E. F. *see* **Hakimi, S. Louis, 89k:05050**
Schnorr, C.-P. *see* **Galil, Zvi; et al., 89c:68043**
Schulz, Reinald ★ Über das Feedback-Vertex-Set-Problem. (German) [On the feedback-vertex-set problem] **89e:05187**
Schvaneveldt, R. W. (*with* Dearholt, D. W.; Durso, F. T.) Graph theoretic foundations of pathfinder networks. **89e:92058**
Sengupta, Indranil *see* **Mukherjee, Phalguni; et al., 89i:05199**

Seress, Ákos Gossips by conference calls. **89d:05134**
Seymour, Paul D. *see* **Robertson, Neil, 89m:05070; 89m:05071** *and* **89m:05072**
Shannon, Gregory E. A linear-processor algorithm for depth-first search in planar graphs. **89i:68052**
Sharipova, M. M. The optimal topology of a network. (Russian) **89b:90079**
Sharir, M. *see* **Sifrony, S., 89f:68069**
Shiloach, Y. *see* **Awerbuch, B.; et al., 89f:68015**
Shvetsov, A. R. *see* **Makarov, I. M.; et al., 89k:68112**
Siegel, Alan (*with* Dolev, Danny) Some geometry for general river routing. **89h:68073**
Sifrony, S. (*with* Sharir, M.) A new efficient motion-planning algorithm for a rod in two-dimensional polygonal space. **89f:68069**
Silberman, G. M. *see* **Erdős, Paul; et al., 89k:68077**
Simon, Klaus An improved algorithm for transitive closure on acyclic digraphs. **89j:68072**
Skowrońska, Mirosława The binding number of Halin graphs. **89m:05065**
Skrzyńska, Maria *see* **Grabska, Ewa, 89h:68092**
Sleep, M. R. *see* **Barendregt, H. P.; et al., (89j:68053)**
Slutzki, Giora *see* **Fernández-Baca, David, 89e:68099**
Soroker, Danny Fast parallel algorithms for finding Hamiltonian paths and cycles in a tournament. **89c:68051**
Spinrad, Jeremy (*with* Brandstädt, Andreas; Stewart, Lorna) Bipartite permutation graphs. **89c:05064**
— *see also* **Brandstädt, Andreas; et al., 89j:05059**
Sprague, Alan *see* **Lai, Ten Hwang, 89e:90086**
Srinivas, Mandayam A. *see* **Frederickson, Greg N., 89m:05033**
Steiger, William *see* **Ragde, Prabhakar; et al., 89j:68049**
Stewart, Lorna *see* **Spinrad, Jeremy; et al., 89c:05064** *and* **Brandstädt, Andreas; et al., 89j:05059**
Sun, Hui Quan Recognizing a mediate graph to be Hamiltonian. **89i:05194**
Sun, Yu-Geng *see* **Cai, Guo-Ray, 89i:05154**
Swamy, M. N. S. *see* **Jayakumar, R.; et al., 89b:05080**
Sysło, Maciej M. A solvable case of the set-partitioning problem. **89c:05053**
— An algorithm for solving the jump number problem. **89k:06003**
— *see also* **Fellows, Michael R.; et al. 89i:05102**
Szemerédi, Endre *see* **Ragde, Prabhakar; et al., 89j:68049**
Takaoka, Tadao *see* **Moffat, A., 89c:68050**
Tamir, Arie Improved complexity bounds for center location problems on networks by using dynamic data structures. **89k:90136**
Tardos, Éva The gap between monotone and nonmonotone circuit complexity is exponential. **89j:68073**
— *see also* **Galil, Zvi, 89f:90048**
Tarhio, Jorma (*with* Ukkonen, Esko) A greedy approximation algorithm for constructing shortest common superstrings. **89j:68064**
Tarjan, Robert E. *see* **Gabow, Harold N., 89e:68047** *and* **89h:90185**
Tchuente, Maurice Computation on finite networks of automata. (*see* **89c:68078**)
Thomas, Robin *see* **Matoušek, Jiří; et al., 89m:68050**
Thulasiraman, K. *see* **Jayakumar, R.; et al., 89b:05080**
Timkovskiĭ, V. G. Some recognition problems that are connected with the isomorphism of graphs. **89m:68045**
Topp, J. (*with* Ulatowski, W.) On functions which sum to zero on semicycles. **89i:05138**
Tsin, Yung Hyang On handling vertex deletion in updating minimum spanning trees. (Not in MR)
Tydykov, V. P. Inversion of an algorithm as a means of analysis of a model. (Russian) **89i:68063**
Ueno, Shuichi (*with* Kajitani, Yoji; Gotoh, Shin'ya) On the nonseparating independent set problem and feedback set problem for graphs with no vertex degree exceeding three. **89k:05085**
— *see also* **Kajitani, Yoji; et al., 89h:05024**
Ukkonen, Esko *see* **Tarhio, Jorma, 89j:68064**
Ulatowski, W. *see* **Topp, J., 89i:05138**
Upfal, Eli *see* **Karp, Richard M.; et al., 89i:68037**
Urquhart, Alasdair Hard examples for resolution. **89e:68056**
Urrutia, Jorge *see* **Atallah, Mikhail J.; et al., 89j:05042**
Vazirani, Umesh V. *see* **Mulmuley, Ketan; et al., 89a:68092**
Vazirani, Vijay V. *see* **Mulmuley, Ketan; et al., 89a:68092**
Vishkin, Uzi *see* **Cole, Richard, 89g:68012**
Vitányi, Paul M. B. Locality, communication, and interconnect length in multicomputers. **89h:68074**
Vitter, Jeffrey Scott *see* **Savage, John E., 89g:68014** *and* **Schevon, Catherine A., 89j:68052**
Wada, Koichi (*with* Kawaguchi, Kimio; Luo, Yupin) Fault-tolerant network routings for $(k+1)$-node connected and $(k+1)$-edge connected graphs. **89b:68015**
Wagner, Donald K. *see* **Bixby, Robert E., 89f:05117**
Wagner, Klaus Werner *see* **Karpiński, M., 89e:68052**
Waner, Stefan (*with* Wu, Yihren) The hierarchical structure of graph searches. **89a:68198**
Wang, Xie Hua (*with* Gu, Xin Li) Application of tree grammar and projection to hierarchical description of Chinese characters. (Chinese. English summary) (Not in MR)
Wanke, Egon *see* **Lengauer, Thomas, 89m:05077**
Waxman, Bernard M. (*with* Imase, Makoto) Worst-case performance of Rayward-Smith's Steiner tree heuristic. **89k:68073**
Weber, Andreas *see* **Galil, Zvi; et al., 89c:68043**
Wigderson, Avi *see* **Linial, Nathan; et al., 89i:05187; Karp, Richard M.; et al., 89i:68037** *and* **Ragde, Prabhakar; et al., 89j:68049**
Williams, Kenneth L. *see* **Boals, A. J., (89d:00007)**
Wojciechowski, J. *see* **Gronau, H.-D. O. F.; et al., 89i:05128**
Wolfstahl, Yaron *see* **Moran, Shlomo, 89f:68008**
Wormald, Nicholas C. Generating random unlabelled graphs. **89c:05066**
Wu, Shu Shih Y. *see* **Cozzens, Margaret B., 89a:05099**
Wu, Yihren *see* **Waner, Stefan, 89a:68198**
Yang, Chao Chih (*with* Li, Guang; Ng, Peter Ann-Beng) An improved algorithm based on subset closures for synthesizing a relational database scheme. **89j:68031**
— Deduction graphs: an algorithm and applications. (Not in MR)
Yannakakis, Mihalis *see* **Johnson, David Stifler; et al., 89e:68051**
Yesha, Yaacov *see* **He, Xin, 89e:05071**
Yu, Rui Zhao *see* **Zhang, Wei; et al., 89k:68075**
Zaks, S. *see* **Korach, E.; et al., 89b:68012** *and* **Erdős, Paul; et al., 89k:68077**
Zhang, Fu Ji (*with* Lin, Guo Ning; Zheng, Mao Lin) An algorithm for generating all perfect matchings of a graph. (Chinese. English summary) **89d:05145**
Zhang, Wei (*with* Yu, Rui Zhao; He, Zhi Jun) A linear heuristic algorithm for graph search. (Chinese. English summary) **89k:68075**
Zheng, Mao Lin *see* **Zhang, Fu Ji; et al., 89d:05145**
Zhu, Hong[1] (*with* Li, Ke) The complexity of transformation from cyclic to acyclic database schemes. (Russian summary) **89j:68032**
Zubair, M. (*with* Madan, B. B.) Efficient systolic algorithm for finding bridges in a connected graph. **89a:68111**
Zverovich, I. È. The degree set of a tree. (Russian) **89a:05056**

Items listed otherwise than by author

CAAP '88 ★ CAAP '88. **89c:68003**
Colloquium:
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68R99 None of the above, but in this section

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68Sxx Mathematical linguistics [see also 03B65]

68S05 General

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Desclés, Jean-Pierre Théorème de Church-Rosser et structuration des langues naturelles. (English summary) [The Church-Rosser theorem and structuring of natural languages] **89k:68125**
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68S15 Translation of natural languages

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68Txx Artificial intelligence

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(Cohen, Paul R.) *see* **Handbook: Artificial intelligence, 89e:68104c**
(Farreny, Henri) *see* **Nilsson, Nils J., 89e:68103**
(Feigenbaum, Edward A.) *see* **Handbook: Artificial intelligence, 89e:68104a; 89e:68104b** *and* **89e:68104c**
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Segeda, N. E. *see* **Karpov, O. N.**, (**89f:00011**)

Shaĭeb, A. *see* **Bolotov, A. A.**, **89c:68084**

Shimbo, Masaru *see* **Kudo, Mineichi**, **89e:68106**

Siedlecka, Kinga *see* **Siedlecki, Wojciech; et al.**, (Not in MR) *and* (Not in MR)

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Blumer, J. *see* **Blumer, A.; et al., 89h:68028**
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Gamble, E. B. *see* **Poggio, T.; et al., 89k:92087**
Giordana, A. *see* **Bergadano, F.; et al.**, (Not in MR)
Giralt, Francesc *see* **Ferré, J. A.**, (Not in MR) *and* (Not in MR)
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Grossberg, S. *see* **Carpenter, G. A.**, (**89i:92026**)
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Hübler, Albrecht *see* **Creutzburg, Egbert; et al., 89k:68142**
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Kunt, Murat *see* **Boite, René, 89f:94001**
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Lehmann, Arndt *see* **Bandemer, Hans; et al., 89g:68066**
(Levinson, Stephen) *see* **Vysotsky, George**, (Not in MR)
Little, J. J. *see* **Poggio, T.; et al., 89k:92087**
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Mazurov, Vl. D. *see* **Erëmin, I. I.; et al., 89i:90058**
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Murtagh, F. *see* **Adorf, H.-M., 89m:92009**
Nagaraja, G. *see* **Radhakrishnan, V., 89a:68182**
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Nakano, K. (*with* Niizuma, M.; Omori, T.) Model of neural visual system with self-organizing cells. **89j:92089**
Nguyen Ngoc Thanh *see* **Daniłowicz, Czesław, 89i:05033**
Niizuma, M. *see* **Nakano, K.; et al., 89j:92089**
Novikova, T. N. *see* **Matvienko, A. N., 89j:92017**
Omori, T. *see* **Nakano, K.; et al., 89j:92089**
O'Rourke, Joseph Uniqueness of orthogonal connect-the-dots. (*see* **89k:68151**)
Otsu, Nobuyuki Recognition of shape and transformation: an invariant-theoretical foundation. (*see* **89g:82013**)
Ovsyannikova, F. P. *see* **Vasil′ev, V. I.; et al., 89f:92068**
Park, Kyoung T. *see* **Hall, Ernest L.**, (**89g:82013**)
Poggio, T. (*with* Voorhees, H.; Yuille, A.) A regularized solution to edge detection. **89e:68116**
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Radhakrishnan, V. (*with* Nagaraja, G.) Inference of regular grammars via skeletons. **89a:68182**
Ritter, Gerhard X. Topology of computer vision. **89m:92059**
Rudakov, K. V. Symmetric and functional constraints for classification algorithms. **89f:68062**
Sahoo, Prasanna K. (*with* Wong, A. K. C.) Generalized Jensen difference based on entropy functions. **89i:94021**
Saitta, L. *see* **Bergadano, F.; et al.**, (Not in MR)
Schaback, R. On the expected sublinearity of the Boyer-Moore algorithm. **89h:68070**
Skrzyńska, Maria *see* **Grabska, Ewa, 89h:68092**
Solimini, S. *see* **Morel, J.-M., 89k:90183**
(Stone, Maureen C.) *see* **SIGGRAPH '87, 89j:68151**
Sýkora, O. *see* **Creutzburg, Egbert; et al., 89k:68142**
Tucker, Douglas *see* **Buckley, J. J.**, (Not in MR)
Urina, F. Z. *see* **Medvedkov, I. A., 89h:90265**
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Voorhees, H. *see* **Poggio, T.; et al., 89e:68116**
Vysotsky, George ★ Automatic speech recognition research in the USSR. (Not in MR)
Wang, Qing Ren Statistically equivalent block (SEB) classifier: its asymptotic property and prospects. **89b:62129**
Wong, A. K. C. *see* **Sahoo, Prasanna K., 89i:94021**
Yuille, A. *see* **Poggio, T.; et al., 89e:68116**

Items listed otherwise than by author

Anaheim, CA ★ SIGGRAPH '87. **89j:68151**
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68T15 Theorem proving [see also 03B35]

Aaby, A. A. (*with* Narayana, K. T.) Propositional temporal interval logic is PSPACE complete. (*see* **89c:68004**)
Baader, Franz A note on unification type zero. **89a:68188**
Bates, J. L. *see* **Constable, R. L.; et al., 89i:68113**
Bockmayr, Alexander A note on a canonical theory with undecidable unification and matching problem. **89d:68076**
Bosco, Pier Giorgio (*with* Giovannetti, Elio; Moiso, Corrado) Narrowing vs. SLD-resolution. **89k:68130**
(Boyer, Robert S.) *see* **Jiang, Yun Fei, 89e:68107**
Bürckert, Hans-Jürgen Solving disequations in equational theories. (*see* **89c:68004**)
Büttner, Wolfram Unification in datastructure multisets. **89j:68133**
Cantone, D. (*with* Ghelfo, Susanna; Omodeo, E. G.) The automation of syllogistic. I. Syllogistic normal forms. **89i:68111**
Chang, Chin Liang (*with* Lee, Richard C. T.) ★ Symbolic logic and mechanical theorem proving. **89i:68112**
Chen, Wen Tsuen (*with* Liu, Lung Lung) A parallel approach for theorem proving in propositional logic. **89c:68086**
Constable, R. L. (*with* Knoblock, T. B.; Bates, J. L.) Writing programs that construct proofs. **89i:68113**
Cvetković, Dragoš (*with* Pevac, Irena) Man-machine theorem proving in graph theory. **89h:68130**
Degtyarëv, A. I. *see* **Voronkov, A. A., 89k:68136**
Dilger, Werner (*with* Janson, Agnes) Intelligent backtracking in deduction systems by means of extended unification graphs. **89h:68131**
Fitting, Melvin First-order modal tableaux. **89h:68132**
Fortenbacher, Albrecht An algebraic approach to unification under associativity and commutativity. **89i:68114**
Franzen, Mark (*with* Henschen, Lawrence) A new approach to universal unification and its application to AC-unification. (*see* **89c:68004**)
Gallier, Jean H. Fast algorithms for testing unsatisfiability of ground Horn clauses with equations. **89k:68131**
Gao, Xiao Shan Trigonometric identities and mechanical theorem proving in elementary geometry. (Chinese. English summary) **89g:68061**
Ghelfo, Susanna *see* **Cantone, D.; et al., 89i:68111**
Giovannetti, Elio *see* **Bosco, Pier Giorgio; et al., 89k:68130**
Haeusler, Edward Hermann Automatic theorem proving: an attempt to improve readability of proofs generated by resolution. **89j:68134**
Hagiwara, Yoshiki The elimination of redundant Alg. EE derivations that are uniformly nonminimal. (Not in MR)
Henschen, Lawrence *see* **Yahya, Adnan, 89h:68135**; **McCune, William, 89i:68116** *and* **Franzen, Mark**, (**89c:68004**)

Hooker, J. N. Generalized resolution and cutting planes. **89g:68062**

Hsiang, Jieh (*with* Srivas, Mandayam) Automatic inductive theorem proving using PROLOG. **89a:68189**

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Janson, Agnes *see* **Dilger, Werner, 89h:68131**

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— *see also* **Mohan, Chilukuri K.; et al., 89a:68192; Zhang, Hantao, (89c:68004)** *and* **(89c:68004)**

Käufl, Thomas Reasoning about systems of linear inequalities. (*see* **89c:68004**)

Kharmeev, A. A. *see* **Mart′yanov, V. I.; et al., 89j:68135**

Kikyo, Hirotaka An implementation of a theorem proving system based on proof procedures using knowledge on mathematical structures. (Not in MR)

Knoblock, T. B. *see* **Constable, R. L.; et al., 89i:68113**

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Kounalis, Emmanuel (*with* Rusinowitch, Michael) On word problems in Horn theories. (*see* **89c:68004**)

Krishnamoorthy, M. S. *see* **Zhang, Hantao; et al., (89c:68004)**

Lassez, Jean-Louis *see* **Jaffar, Joxan, 89k:68132**

Lee, Richard C. T. *see* **Chang, Chin Liang, 89i:68112**

Lengauer, Christian A view of automated proof checking and proving. (*see* **89k:00007**)

Li, Ren Wei Soundness and completeness of Kung's reasoning procedure. **89h:68133**

Liu, Lung Lung *see* **Chen, Wen Tsuen, 89c:68086**

Lloyd, J. W. (*with* Sonenberg, E. A.; Topor, Rodney W.) Integrity constraint checking in stratified databases. **89a:68190**

Lusk, Ewing L. (*with* Overbeek, R. A.) Reasoning about equality. **89i:68115**

Manna, Zohar (*with* Waldinger, Richard) The origin of a binary-search paradigm. **89a:68191**

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Matsuyama, Kenji *see* **Murata, Tadao, 89c:68087**

McCune, William (*with* Henschen, Lawrence) Experiments with semantic paramodulation. **89i:68116**

— Challenge equality problems in lattice theory. (*see* **89c:68004**)

— Un-Skolemizing clause sets. **89k:68133**

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Mohan, Chilukuri K. (*with* Srivas, Mandayam; Kapur, Deepak) Reasoning in systems of equations and inequations. **89a:68192**

Moiso, Corrado *see* **Bosco, Pier Giorgio; et al., 89k:68130**

Monk, Leonard G. Inference rules using local contexts. **89k:68134**

(Moore, J. Strother) *see* **Jiang, Yun Fei, 89e:68107**

Moore, Richard *see* **Jones, Cliff B., (89m:68093)**

Munch, Klaus Heje A new reduction rule for the connection graph proof procedure. (Not in MR)

Mundy, J. L. *see* **Kapur, Deepak, 89m:68120**

Murata, Tadao (*with* Matsuyama, Kenji) Inconsistency check of a set of clauses using Petri net reductions. **89c:68087**

Narayana, K. T. *see* **Aaby, A. A., (89c:68004)**

Omodeo, E. G. *see* **Cantone, D.; et al., 89i:68111**

Overbeek, R. A. *see* **Lusk, Ewing L., 89i:68115**

Pelletier, Francis Jeffry Seventy-five problems for testing automatic theorem provers. **89k:68135**

Pevac, Irena *see* **Cvetković, Dragoš, 89h:68130**

Rabinov, Arkady A restriction of factoring in binary resolution. (*see* **89c:68004**)

Ramakrishnan, I. V. *see* **Verma, Rakesh M., (89c:68004)**

Reeves, S. V. Adding equality to semantic tableaux. **89f:68060**

Robinson, Peter J. *see* **Staples, John, 89d:68078**

Rusinowitch, Michael *see* **Kounalis, Emmanuel, (89c:68004)**

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Socher, Rolf A subsumption algorithm based on characteristic matrices. (*see* **89c:68004**)

Sonenberg, E. A. *see* **Lloyd, J. W.; et al., 89a:68190**

Srivas, Mandayam *see* **Hsiang, Jieh, 89a:68189** *and* **Mohan, Chilukuri K.; et al., 89a:68192**

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Stickel, Mark E. Schubert's Steamroller problem: formulations and solutions. **89j:68138**

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Topor, Rodney W. *see* **Lloyd, J. W.; et al., 89a:68190**

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Voronkov, A. A. (*with* Degtyarëv, A. I.) Automatic theorem proving. II. (Russian. English summary) **89k:68136**

Waldinger, Richard *see* **Manna, Zohar, 89a:68191**

Walther, Christoph Argument-bounded algorithms as a basis for automated termination proofs. (*see* **89c:68004**)

Wang, Tie Cheng Case studies of Z-module reasoning: proving benchmark theorems from ring theory. **89c:68088**

— Elements of Z-module reasoning. (*see* **89c:68004**)

Wos, Larry The problem of self-analytically choosing the set of support. **89j:68139**

Yahya, Adnan (*with* Henschen, Lawrence) Deduction in non-Horn databases. **89h:68135**

Yakovlev, N. P. *see* **Mart′yanov, V. I.; et al., 89j:68135**

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Anisimov, A. V. (*with* Oleshchuk, V. A.) Algorithms for information processing in high-speed computer systems. (Russian) (*see* **89j:68011**)

Arnborg, Stefan *see* **Tidén, Erik, 89a:68141** *and* **89c:03020**

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Brown, Cynthia A. *see* **Purdom, Paul Walton, Jr., 89c:68038**

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Chetverikov, G. G. (*with* Shubin, I. Yu.) An algorithm for the minimization of weakly defined formulas of the algebra of finite predicates. (Russian) **89i:03018**

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(Gottwald, Siegfried) *see* **Nonclassical logic, 89e:03005**

Helman, Paul (*with* Veroff, Robert) Designing deductive databases. **89c:68022**

Hernández Fdez., Ma. Luisa Teresa Automatic proof of theorems. (Spanish. English summary) **89h:03017**

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Kabulov, V. K. Propositional logic and methods for theorem proving. (Russian) **89h:03018**

Kanellakis, Paris C. *see* **Dwork, Cynthia; et al., 89m:68057**

Kaplan, Stéphane Simplifying conditional term rewriting systems: unification, termination and confluence. **89d:68049**

Kapur, Deepak *see* **Benanav, Dan; et al., 89a:68131**

Kemmerich, S. *see* **Benninghofen, Benjamin; et al., 89a:68132**

Kirchner, Claude *see* **Gnaedig, Isabelle; et al., (89c:68003)**

Kirchner, Hélène *see* **Gnaedig, Isabelle; et al., (89c:68003)**

Konolige, Kurt ★ A deduction model of belief. **89i:03050**

(Kreiser, Lothar) *see* **Nonclassical logic, 89e:03005**

Kutzler, Bernhard Introduction to Buchberger's Gröbner bases method. **89c:68055**

Larsen, Kim G. Proof systems for Hennessy-Milner logic with recursion. **89e:68081**

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Liu, Xu Hua Fuzzy reasoning with equality relation in operator fuzzy logic. **89k:03024**

(Lusk, Ewing L.) *see* **Conference: Automated Deduction, 89c:68004**

Marcus, Leo *see* **Dershowitz, Nachum; et al., 89k:68090**

Martin, Ursula Extension functions for multiset orderings. **89m:68082**

Martirosyan, A. A. Some classes of reliable algorithms for inductive inference. (Russian. Armenian summary) **89b:03067**

McCarty, L. Thorne Clausal intuitionistic logic. I. Fixed-point semantics. **89g:03014a**

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Narendran, Paliath (*with* Otto, Friedrich) Elements of finite order for finite weight-reducing and confluent Thue systems. **89k:03043**

— *see also* **Benanav, Dan; et al., 89a:68131** *and* **Gallier, Jean H.; et al., (89c:68004)**

Niemelä, Ilkka Decision procedure for autoepistemic logic. (*see* **89c:68004**)

Nipkow, Tobias Unification in primal algebras. **89h:68104**

Nishizawa, Teruyasu Finite derivative closure of partial functions and a method of inference. **89a:03060**

Okada, Mitsuhiro *see* **Dershowitz, Nachum; et al., (89c:68004)**

Oleshchuk, V. A. *see* **Anisimov, A. V., (89j:68011)**

Oppacher, F. (*with* Suen, E.) HARP: a tableau-based theorem prover. **89i:03023**
Otto, Friedrich *see* **Narendran, Paliath, 89k:03043** *and* **Benninghofen, Benjamin; et al., 89a:68132**
(Overbeek, R. A.) *see* **Conference: Automated Deduction, 89c:68004**
Paulson, Lawrence C. ★ Logic and computation. **89e:68087**
Pfenning, Frank Single axioms in the implicational propositional calculus. (*see* **89c:68004**)
Plaisted, D. A. *see* **Gallier, Jean H.; et al., (89c:68004)**
Purdom, Paul Walton, Jr. (*with* Brown, Cynthia A.) Polynomial-average-time satisfiability problems. **89c:68038**
Raatz, Stan *see* **Gallier, Jean H.; et al., (89c:68004)**
Richter, Michael M. *see* **Benninghofen, Benjamin; et al., 89a:68132**
Robinson, Peter J. *see* **Staples, John, 89c:68090**
Rosenthal, Erik *see* **Murray, Neil V., 89e:03019**
Rudnicki, Piotr Obvious inferences. **89i:03024**
Rusinowitch, Michael Path of subterms ordering and recursive decomposition ordering revisited. **89h:68095**
Rydeheard, D. E. (*with* Stell, J. G.) Foundations of equational deduction: a categorical treatment of equational proofs and unification algorithms. **89a:03023**
Schmerl, Ulf R. Resolution on formula-trees. **89i:03025**
Schöning, Uwe ★ Logik für Informatiker. (German) [Logic for computer scientists] **89e:68001**
Scutellà, Maria Grazia *see* **Gallo, Giorgio, 89m:68041**
Shubin, I. Yu. *see* **Chetverikov, G. G., 89i:03018**
Sivakumar, G. *see* **Dershowitz, Nachum; et al., (89c:68004)**
Snyder, Wayne *see* **Gallier, Jean H.; et al., (89c:68004)**
Staples, John (*with* Robinson, Peter J.) Efficient unification of quantified terms. **89c:68090**
Stell, J. G. *see* **Rydeheard, D. E., 89a:03023**
(Stelzner, Werner) *see* **Nonclassical logic, 89e:03005**
Stevens, Rick L. Challenge problems from nonassociative rings for theorems provers. (*see* **89c:68004**)
Stickel, Mark E. A Prolog technology theorem prover: implementation by an extended Prolog compiler. **89m:03011**
Stockmeyer, Larry *see* **Dwork, Cynthia; et al., 89m:68057**
Strassen, V. The work of Leslie G. Valiant. **89d:01068**
Suen, E. *see* **Oppacher, F., 89i:03023**
Szczerba, L. W. Rough quantifiers. (Russian summary) **89i:03051**
Tarlecki, A. *see* **Dershowitz, Nachum; et al., 89k:68090**
Tenenbaum, M. D. A two-level model of a multiprocessor computer system. (Russian. Armenian summary) (Not in MR)
Tidén, Erik ★ First-order unification in combinations of equational theories. **89c:03020**
— (*with* Arnborg, Stefan) Unification problems with one-sided distributivity. **89a:68141**
Urquhart, Alasdair Hard examples for resolution. **89e:68056**
Vagin, V. N. ★ Дедукция и обобщение в системах принятия решений. (Russian) [Deduction and generalization in decision-making systems] **89k:68140**
(Valiant, Leslie G.) *see* **Strassen, V., 89d:01068**
Van Bendegem, Jean Paul Intuitionistic logic and automated reasoning. **89m:03058**
— Searching an appropriate language about proofs and constructions: what a small semantical change may accomplish. **89g:03040**
Van Gelder, Allen A satisfiability tester for nonclausal propositional calculus. **89m:68067**
Veroff, Robert *see* **Helman, Paul, 89c:68022**
Walther, Christoph ★ A many-sorted calculus based on resolution and paramodulation. **89c:03021**
— Many-sorted unification. **89e:68064**
Weispfenning, Volker The complexity of linear problems in fields. **89g:11123**
Wos, Larry (*with* McCune, William) Challenge problems focusing on equality and combinatory logic: evaluating automated theorem-proving programs. (*see* **89c:68004**)
— *see also* **McCune, William, 89d:03010**
Wu, Mao Kang Rules for automated reasoning in fuzzy logic. (Chinese. English summary) **89j:03021**
Zaionc, Marek Mechanical procedure for proof construction via closed terms in typed λ calculus. **89i:03030**
Zamov, N. K. The resolution method without Skolemization. (Russian) **89k:03013**
Zeugmann, Thomas On Barzdin's conjecture. **89c:03068**
Zhu, Guan Ming *see* **Miao, Huai Kou, 89k:03012**
Zwiers, Jakob ★ Compositionality, concurrency and partial correctness. **89d:68061**

Items listed otherwise than by author

Argonne, IL ★ 9th International Conference on Automated Deduction. **89c:68004**
Conference:
  Automated Deduction ★ 9th International Conference on Automated Deduction. **89c:68004**
Lecture Notes in Computer Science ★ 9th International Conference on Automated Deduction. **89c:68004**
Nichtklassische Logik ★ Nichtklassische Logik. (German) [Nonclassical logic] **89e:03005**
Nonclassical logic ★ Nichtklassische Logik. (German) [Nonclassical logic] **89e:03005**

68T20 Problem solving

Agogino, Alice M. *see* **Rege, Ashutosh, 89k:68138**
Anderson, John (*with* Evans, Mark) UMBBS: a blackboard development system for an educational environment. (*see* **89m:00010**)
Bibel, Wolfgang Constraint satisfaction from a deductive viewpoint. (Not in MR)
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— Correctness criteria of some algorithms for uncertain reasoning using incidence calculus. **89k:68137**
Dechter, Rina (*with* Pearl, Judea) Network-based heuristics for constraint-satisfaction problems. **89a:68194**
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Delgrande, James P. An approach to default reasoning based on a first-order conditional logic: revised report. (Not in MR)
Evans, Mark A knowledge-based approach to cooperative problem solving. (*see* **89m:00009**)
— *see also* **Anderson, John, (89m:00010)**
Friedland, Peter E. (*with* Iwasaki, Yumi) The concept and implementation of skeletal plans. **89j:68141**
Glover, Fred (*with* Greenberg, Harvey J.) Logical testing for rule-base management. (Not in MR)
Greenberg, Harvey J. *see* **Glover, Fred**, (Not in MR)
Iwasaki, Yumi *see* **Friedland, Peter E., 89j:68141**
Kabat, Waldo C. *see* **Parrello, Bruce D.; et al., 89j:68144**
Kasymova, Zh. S. Nontrivial methods for the detection of regularities. (Russian) **89i:68117**
Kramer, Thomas Automated analysis of operators on state tables: a technique for intelligent search. **89j:68142**
Krishnaprasad, T. On the computability of circumscription. **89h:68136**
Krol′, V. M. (*with* Tanengol′ts, L. I.) A logical calculus for solving problems with strongly structured subject areas. **89d:68079**
Kwa, James B. H. BS*: an admissible bidirectional staged heuristic search algorithm. **89m:68122**
Li, Fan^2 (*with* Xu, Jian) Inexact reasoning in expert systems for image analysis. (Chinese. English summary) **89m:68123**
Manna, Zohar (*with* Waldinger, Richard) How to clear a block: a theory of plans. **89a:68195**
Marandzhyan, G. B. A method for synthesis of programs for numerical functions. (Russian. Armenian summary) **89a:68196**
Morris, Paul H. The anomalous extension problem in default reasoning. **89j:68143**
Parrello, Bruce D. (*with* Kabat, Waldo C.; Wos, Larry) Job-shop scheduling using automated reasoning: a case study of the car-sequencing problem. **89j:68144**
Pearl, Judea *see* **Dechter, Rina, 89a:68194** *and* **89m:68121**
Poole, David A logical framework for default reasoning. (Not in MR)
Rege, Ashutosh (*with* Agogino, Alice M.) Topological framework for representing and solving probabilistic inference problems in expert systems. **89k:68138**
Rivest, Ronald L. Game tree searching by min/max approximation. **89a:68197**
Ross, Kenneth A. (*with* Topor, Rodney W.) Inferring negative information from disjunctive databases. **89m:68124**
Tanengol′ts, L. I. *see* **Krol′, V. M., 89d:68079**
Terrier, François *see* **Bonnemay, Alain**, (Not in MR)
Topor, Rodney W. *see* **Ross, Kenneth A., 89m:68124**
Tzeng, Chun-Hung ★ A theory of heuristic information in game-tree search. **89k:68139**
Vagin, V. N. ★ Дедукция и обобщение в системах принятия решений. (Russian) [Deduction and generalization in decision-making systems] **89k:68140**
Veloso, Paulo A. S. Problem solving by interpretation of theories. **89e:68108**
Waldinger, Richard *see* **Manna, Zohar, 89a:68195**
Waner, Stefan (*with* Wu, Yihren) The hierarchical structure of graph searches. **89a:68198**
Wos, Larry *see* **Parrello, Bruce D.; et al., 89j:68144**
Wu, Yihren *see* **Waner, Stefan, 89a:68198**
Xu, Jian *see* **Li, Fan^2, 89m:68123**
You, Jia-Huai Solving equations in an equational language. (*see* **89j:68002**)

Items with secondary classifications in 68T20

Bar-Noy, T. *see* **Friedman, M.; et al., 89i:68055**
Batens, Diderik Static and dynamic paraconsistent logics: a plea for their use in expert systems. **89i:68105**
Bates, J. L. *see* **Constable, R. L.; et al., 89i:68113**
Blau, Matthias *see* **Friedman, M.; et al., 89i:68055**
Cockett, J. Robin B. Discrete decision theory: manipulations. **89h:68105**
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Emura, Eriko *see* **Morita, Kenichi; et al., 89i:03022**
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Guggenheimer, H. ★ Probabilistic propositional logic. **89m:68114**
Hoffman, Karla L. (*with* Padberg, Manfred) LP-based combinatorial problem solving. **89b:90124**
Jakobson, Gabriel ★ Soviet artificial intelligence research. **89k:68126**
Janson, Agnes *see* **Dilger, Werner, 89h:68131**
Kahn, Arthur B. (*with* Sigler, John N.) A network model for problem solving. (*see* **89c:00033**)
Kandel, Abraham *see* **Friedman, M.; et al., 89i:68055**
Knoblock, T. B. *see* **Constable, R. L.; et al., 89i:68113**
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Manna, Zohar (*with* Waldinger, Richard) The origin of a binary-search paradigm. **89a:68191**
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Nishihara, Noritaka *see* **Morita, Kenichi; et al., 89i:03022**
Padberg, Manfred *see* **Hoffman, Karla L., 89b:90124**
Sigler, John N. *see* **Kahn, Arthur B., (89c:00033)**
(Smith, Raoul) *see* **Jakobson, Gabriel, 89k:68126**
Stickel, Mark E. Schubert's Steamroller problem: formulations and solutions. **89j:68138**
Stohr, Edward A. Automated support for formulating linear programs. (*see* **89g:90136**)
Tyugu, Enn ★ Knowledge-based programming. **89c:68015**
Waldinger, Richard *see* **Manna, Zohar, 89a:68191**

68T25 Special programming languages

Alekseeva, E. F. (*with* Stefanyuk, V. L.) A general-purpose adaptive LISP system. (Not in MR)

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Feurer, Reinhard *see* **Janko, Wolfgang H.,** (**89j:90002**)

(Fujisaki, T.) *see* **Logic programming '87, 89h:68137**

(Furukawa, Koichi) *see* **Logic programming '87, 89h:68137**

Giordana, A. *see* **Bergadano, F.; et al.,** (Not in MR)

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Gottlob, Georg *see* **Ceri, Stefano; et al.,** (Not in MR)

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Kanamori, Tadashi *see* **Horiuchi, Kenji,** (**89h:68137**) *and* **Maeji, Machi,** (**89i:68001**)

Kawamura, Toshio (*with* Ohwada, Hayato; Mizoguchi, Fumio) CS-PROLOG: a generalized unification based constraint solver. (*see* **89h:68137**)

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Ligęza, Antoni *see* **Tzafestas, Spyros G.,** (Not in MR)

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Löwen, Ulrich *see* **Kleine Büning, Hans,** (Not in MR)

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Martelli, Maurizio *see* **Aquilano, C.; et al., 89j:68145**

(Minker, Jack) *see* **Foundations of deductive databases and logic programming, 89m:68125**

Mizoguchi, Fumio *see* **Kawamura, Toshio; et al.,** (**89h:68137**)

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Ohwada, Hayato *see* **Kawamura, Toshio; et al.,** (**89h:68137**)

Robinson, J. A. Notes on logic programming. **89a:68199**

Robinson, Peter J. *see* **Staples, John, 89c:68090**

Rodríguez Artalejo, Mario *see* **Moreno-Navarro, Juan José,** (**89b:03004**) *and* (**89j:68002**)

Saitta, L. *see* **Bergadano, F.; et al.,** (Not in MR)

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Simonis, Helmut *see* **Büttner, Wolfram, 89f:68061**

Smolka, Gert Logic programming with polymorphically order-sorted types. (*see* **89j:68002**)

Snyers, Dominique (*with* Thayse, André) ★ From logic design to logic programming. **89g:68063**

Staples, John (*with* Robinson, Peter J.) Efficient unification of quantified terms. **89c:68090**

Stefanyuk, V. L. *see* **Alekseeva, E. F.,** (Not in MR)

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(Tanaka, Hozumi) *see* **Logic programming '87, 89h:68137**

Thayse, André *see* **Snyers, Dominique, 89g:68063**

Topor, Rodney W. Domain-independent formulas and databases. **89d:68081**

Tzafestas, Spyros G. (*with* Ligęza, Antoni) Expert control through decision making. (Not in MR)

Vauclair, M. *see* **Louis, G.,** (Not in MR)

Wasilewska, Anita Definable sets in knowledge representation systems. (Russian summary) **89e:68110**

Wiederhold, Gio *see* **Ceri, Stefano; et al.,** (Not in MR)

Yamasaki, Susumu Computation mechanism and semantics for logic programs based on dataflow networks. (*see* **89i:68001**)

Yukawa, Keitaro *see* **van Emden, Maarten H., 89d:68080**

Items listed otherwise than by author

Conference:

Logic Programming ★ Logic programming '87. **89h:68137**

Foundations of deductive databases and logic programming ★ Foundations of deductive databases and logic programming. **89m:68125**

Lecture Notes in Computer Science ★ Logic programming '87. **89h:68137**

Logic programming '87 ★ Logic programming '87. **89h:68137**

Tokyo ★ Logic programming '87. **89h:68137**

Washington, D.C. ★ Foundations of deductive databases and logic programming. **89m:68125**

Workshop:

Foundations of deductive databases and logic programming ★ Foundations of deductive databases and logic programming. **89m:68125**

Items with secondary classifications in 68T25

(Aiello, Luigia) *see* **Foundations of logic and functional programming, 89c:68005**

Börger, Egon (*with* Löwen, Ulrich) Logical decision problems and complexity of logic programs. **89c:03065**

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Doshita, Shuji *see* **Yamasaki, Susumu; et al., 89f:68047**

Fagin, Ronald (*with* Halpern, Joseph Y.) I'm OK if you're OK: on the notion of trusting communication. **89m:68034**

Finn, V. K. *see* **Gusakova, S. M., 89m:68012**

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(Grabowski, Jan) *see* **Algebraic and logic programming, 89j:68002**

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Halpern, Joseph Y. *see* **Fagin, Ronald, 89m:68034**

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Huet, Gérard Deduction and computation. **89i:68029**

Jaffar, Joxan (*with* Lassez, Jean-Louis) From unification to constraints. **89k:68132**

Kharmeev, A. A. *see* **Mart'yanov, V. I.; et al., 89j:68135**

Lassez, Jean-Louis *see* **Jaffar, Joxan, 89k:68132**

(Lescanne, Pierre) *see* **Algebraic and logic programming, 89j:68002**

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Lin, Kuan Pin (*with* Perry, Stan) A logic programming approach to revealed preference theory. **89j:90011**

Lloyd, J. W. ★ Foundations of logic programming. **89b:68004**

Löwen, Ulrich *see* **Börger, Egon, 89c:03065**

Márkus, Gábor *see* **Márkusz, Zsuzsa,** (Not in MR)

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Pasztor, Ana Nonstandard logics of recursive programs and denotational semantics. (*see* **89j:68002**)

Perry, Stan *see* **Lin, Kuan Pin, 89j:90011**

Prywes, Noah S. *see* **Szymanski, Boleslaw K.,** (Not in MR)

Robinson, Peter J. *see* **Staples, John, 89d:68078**

Sakakibara, Yasubumi On semantics of logic programs with uncertainties. (Not in MR)

Schöning, Uwe ★ Logik für Informatiker. (German) [Logic for computer scientists] **89e:68001**

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Stickel, Mark E. A Prolog technology theorem prover: implementation by an extended Prolog compiler. **89m:03011**

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Tucker, Douglas *see* **Buckley, J. J.,** (Not in MR)

Ullman, Jeffrey D. (*with* Van Gelder, Allen) Parallel complexity of logical query programs. **89d:68010**

Van Gelder, Allen *see* **Ullman, Jeffrey D., 89d:68010**

(Wechler, Wolfgang) *see* **Algebraic and logic programming, 89j:68002**

Yakovlev, N. P. *see* **Mart'yanov, V. I.; et al., 89j:68135**

Yamasaki, Susumu (*with* Yoshida, Mikio; Doshita, Shuji) A fixpoint semantics of Horn sentences based on substitution sets. **89f:68047**

Yoshida, Mikio *see* **Yamasaki, Susumu; et al., 89f:68047**

You, Jia-Huai Solving equations in an equational language. (*see* **89j:68002**)

Items listed otherwise than by author

Algebraic and logic programming ★ Algebraic and logic programming. 89j:68002
Foundations of logic and functional programming ★ Foundations of logic and functional programming. 89c:68005
Gaussig ★ Algebraic and logic programming. 89j:68002
Lecture Notes in Computer Science ★ Foundations of logic and functional programming. 89c:68005
Trento ★ Foundations of logic and functional programming. 89c:68005
Workshop:
  Algebraic and Logic Programming ★ Algebraic and logic programming. 89j:68002
  Foundations of Logic and Functional Programming ★ Foundations of logic and functional programming. 89c:68005

68T30 Knowledge representation

Aliev, R. A. (*with* Tserkovnyi, A. È.) Representation of knowledge in intelligent robots on the basis of fuzzy sets. 89h:68138
(Cercone, Nick) *see* **Knowledge frontier, 89a:68200**
Cockett, J. Robin B. Aspects of expert systems. (*see* 89g:93002)
Eremeev, A. P. A production model for representing knowledge based on a decision table. (Not in MR)
Escalada-Imaz, Gonzalo (*with* Ghallab, Malik) A practically efficient and almost linear unification algorithm. (Not in MR)
Fogelman-Soulié, Françoise Representation of knowledge and learning on automata networks. (*see* 89c:68078)
Furems, E. M. *see* **Larichev, O. I.; et al., 89e:68111**
Ghallab, Malik *see* **Escalada-Imaz, Gonzalo,** (Not in MR)
Harao, Masateru *see* **Iwanuma, Koji,** (89h:68137)
Iwanuma, Koji (*with* Harao, Masateru) Knowledge representation and inference based on first-order modal logic. (*see* 89h:68137)
Jäger, Gerhard Some logical aspects of information processing. (*see* 89k:00007)
Krishna, G. *see* **Shekar, B.; et al., 89m:68127**
Larichev, O. I. (*with* Mechitov, A. I.; Moshkovich, E. M.; Furems, E. M.) A method of expert classification for the formation of knowledge bases of diagnostic systems. 89e:68111
Levitt, Tod S. Choosing uncertainty representations in artificial intelligence. 89h:68139
(McCalla, Gordon) *see* **Knowledge frontier, 89a:68200**
Mechitov, A. I. *see* **Larichev, O. I.; et al., 89e:68111**
Moshkovich, E. M. *see* **Larichev, O. I.; et al., 89e:68111**
Narasimha Murty, M. *see* **Shekar, B.; et al., 89m:68127**
Nebel, Bernhard Computational complexity of terminological reasoning in BACK. (Not in MR)
Orłowska, Ewa Semantics of knowledge operators. (Russian summary) 89b:68057
— Reasoning about vague concepts. (Russian summary) 89e:68112
Pawlak, Zdzisław Principles of knowledge representation. (*see* 89g:03001)
Rudakov, K. V. Application of universal constraints in the study of classification algorithms. 89d:68082
— Symmetric and functional constraints for classification algorithms. 89f:68062
Sakai, Hiroshi On intellectual question-answering with incomplete informations. 89c:68091
Shastri, Lokendra ★ Semantic networks: an evidential formalization and its connectionist realization. 89m:68126
Shekar, B. (*with* Narasimha Murty, M.; Krishna, G.) Structural aspects of semantic-directed clusters. 89m:68127
Solov'ev, S. Yu. (*with* Solov'eva, G. M.) Problems in the application of the method of alternatives for knowledge representation. 89j:68146
Solov'eva, G. M. *see* **Solov'ev, S. Yu., 89j:68146**
Tserkovnyi, A. È. *see* **Aliev, R. A., 89h:68138**
Yager, Ronald R. A note on the representation of quantified statements in terms of the implication operation. 89i:68118

Items listed otherwise than by author

Knowledge frontier ★ The knowledge frontier. 89a:68200

Items with secondary classifications in 68T30

Aït-Kaci, Hassan An algebraic semantics approach to the effective resolution of type equations. 89c:68073
Anellis, Irving H. Lattice structures, maximal rectangular neural nets, and appearances: the algebraic expansion model of the intentional logic $L(I)$. 89h:03042
Bandler, Wyllis (*with* Kohout, Ladislav J.) On the general theory of relational morphisms. 89d:04001
Besnard, Philippe (*with* Siegel, Pierre) Supposition-based logic for automated nonmonotonic reasoning. (*see* 89c:68004)
Bessonov, A. V. ★ Теория объектов в логике. (Russian) [The theory of objects in logic] 89f:03004
Doignon, Jean-Paul (*with* Falmagne, Jean-Claude) Knowledge assessment: a set-theoretic framework. 89g:92067
Dubois, Didier (*with* Prade, Henri) Incomplete conjunctive information. 89d:03054
— (*with* Prade, Henri) On the combination of uncertain or imprecise pieces of information in rule-based systems—a discussion in the framework of possibility theory. (Not in MR)
Falmagne, Jean-Claude *see* **Doignon, Jean-Paul, 89g:92067**
Fischer, Michael (*with* Immerman, Neil) Interpreting logics of knowledge in propositional dynamic logic with converse. 89k:68095
Friedland, Peter E. (*with* Iwasaki, Yumi) The concept and implementation of skeletal plans. 89j:68141
Georgakopoulos, George (*with* Kavvadias, Dimitris; Papadimitriou, Christos H.) Probabilistic satisfiability. 89e:68036
Giani, Umberto Artificial intelligence in medicine, cognitive science and epidemiological models. (*see* 89f:92002)
Guggenheimer, H. ★ Probabilistic propositional logic. 89m:68114
Harel, David On visual formalisms. 89d:68070
Hilpinen, Risto The semantics of questions and the theory of inquiry. 89c:03029
Immerman, Neil *see* **Fischer, Michael, 89k:68095**
Iwasaki, Yumi *see* **Friedland, Peter E., 89j:68141**
Jain, Ramesh *see* **Khan, Naseem A.,** (Not in MR)
Jakobson, Gabriel ★ Soviet artificial intelligence research. 89k:68126
Kanal, Laveen (*with* Perlis, Donald) Uniform accountability for multiple modes of reasoning. 89i:68106
Karpov, A. O. Minimally defining relations in information structures. 89e:68024
Kavvadias, Dimitris *see* **Georgakopoulos, George; et al., 89e:68036**
Khan, Naseem A. (*with* Jain, Ramesh) Uncertainty management in a distributed knowledge based system. (Russian summary) (Not in MR)
Kohout, Ladislav J. *see* **Bandler, Wyllis, 89d:04001**
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Levesque, Hector J. Logic and the complexity of reasoning. 89k:68127
Loh, Nan K. *see* **Zhu, Mingfa; et al., 89a:03046**
Łukaszewicz, Witold Two results on default logic. (Russian summary) 89j:68128
McCarthy, John Generality in artificial intelligence. 89k:68128
Morris, Paul H. The anomalous extension problem in default reasoning. 89j:68143
Niemelä, Ilkka Decision procedure for autoepistemic logic. (*see* 89c:68004)
Orekhov, A. N. (*with* Semenov, D. V.) A study of the relation between semantic and process characterizations of representations in a mathematized synthetic theory of psychological processes. (Russian. English summary) 89j:92084
Orłowska, Ewa Logic for reasoning about knowledge. 89c:03034
Papadimitriou, Christos H. *see* **Georgakopoulos, George; et al., 89e:68036**
Perlis, Donald *see* **Kanal, Laveen, 89i:68106**
Prade, Henri *see* **Dubois, Didier, 89d:03054** *and* (Not in MR)
Semenov, D. V. *see* **Orekhov, A. N., 89j:92084**
Shapiro, Jeremy F. Stochastic programming models for dedicated portfolio selection. (*see* 89g:90136)
Siegel, Pierre *see* **Besnard, Philippe,** (89c:68004)
Siy, Pepe *see* **Zhu, Mingfa; et al., 89a:03046**
(Smith, Raoul) *see* **Jakobson, Gabriel, 89k:68126**
Soulhi, Saïd Amalgamating belief and preferability in formal systems. 89d:03016
Tuzhilin, Avgustin Alexey Atomatics as mathematical modelling and knowledge representation. Applications to systems analysis in computer and information sciences. 89i:00042
Tyugu, Enn ★ Knowledge-based programming. 89c:68015
Ullman, Jeffrey D. (*with* Van Gelder, Allen) Efficient tests for top-down termination of logical rules. 89k:68102
Van Gelder, Allen *see* **Ullman, Jeffrey D., 89k:68102**
Zhu, Mingfa (*with* Loh, Nan K.; Siy, Pepe) Towards the minimum set of primitive relations in temporal logic. 89a:03046

68T99 None of the above, but in this section

Araksyan, V. V. A model of implementing dialog procedures in interactive systems. 89i:68119
Bogaerts, W. *see* **Rijckaert, M. J.; et al.,** (89g:90136)
Debroey, V. *see* **Rijckaert, M. J.; et al.,** (89g:90136)
Efimov, E. I. Determinational calculus. 89a:68201
Ginsberg, Matthew L. (*with* Smith, David Eugene[2]) Reasoning about action. I. A possible worlds approach. 89m:68128
— (*with* Smith, David Eugene[2]) Reasoning about action. II. The qualification problem. 89m:68129
Graham, Ian (*with* Jones, Peter Llewelyn) ★ Expert systems. 89m:68130
Jones, Peter Llewelyn *see* **Graham, Ian, 89m:68130**
Kramosil, Ivan Expert systems with nonnumerical belief functions. (Russian summary) 89m:68131
Piskunov, A. I. A structural approach to the analysis of fuzzily formalized systems. II. Decision making procedures in structured fuzzy systems. (Not in MR)
Pitt, Leonard (*with* Smith, Carl H.) Probability and plurality for aggregations of learning machines. 89g:68064
Rijckaert, M. J. (*with* Debroey, V.; Bogaerts, W.) Expert systems: the state of the art. (*see* 89g:90136)
Shi, Wei Geng (*with* Su, Stephen Y. H.) An outline diagnosable fault-tolerant redundancy system. (Not in MR)
Smith, Carl H. *see* **Pitt, Leonard, 89g:68064**
Smith, David Eugene[2] *see* **Ginsberg, Matthew L., 89m:68128** *and* **89m:68129**
Su, Stephen Y. H. *see* **Shi, Wei Geng,** (Not in MR)
Zimmermann, Hans-J. Probabilistic and nonprobabilistic representation of uncertainties in expert systems. (*see* 89g:90136)

Items with secondary classifications in 68T99

Bennett, Bruce Michael *see* **Hoffman, D. D., 89c:92090**
Berres, Manfred λ-additive measures on measure spaces. 89m:28038
Blake, Andrew (*with* Zisserman, Andrew) ★ Visual reconstruction. 89k:92086
Boddy, Mark *see* **Dean, Thomas, 89j:03010**
Dean, Thomas (*with* Boddy, Mark) Reasoning about partially ordered events. 89j:03010
Delgado, M. (*with* Moral, S.) A definition of inclusion for evidences. 89m:60009
Dreyfus, G. *see* **Guyon, I.; et al., 89m:92019**
Ezawa, Yoshinori Upper bound of fuzzy relation in probable fuzzy reasoning. 89k:03023
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Henglein, Fritz *see* **Paige, Robert, 89a:68020**
Hoffman, D. D. (*with* Bennett, Bruce Michael) Erratum: "The computation of structure from fixed-axis motion: rigid structures" [Biol. Cybernet. **54** (1986), no. 2, 71–83; MR 87i:92068]. 89c:92090
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Jeroslow, Robert G. Alternative formulations of mixed integer programs. **89f:90105**

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Kelemen, Jozef Measuring cognitive resources use (a grammatical approach). (Russian summary) **89m:92055**

Klir, G. J. Where do we stand on measures of uncertainty, ambiguity, fuzziness, and the like? **89b:00037**

Kohonen, Teuvo ★ Self-organization and associative memory. **89c:68085**

Kussul', È. M. Modeling of stochastic neural networks. (Russian) **89h:92026**

Moore, James C. (*with* Richmond, William B.; Whinston, Andrew B.) Mathematical basis for decision support systems. (*see* **89g:90136**)

Moral, S. *see* **Delgado, M., 89m:60009**

Nadal, J.-P. *see* **Guyon, I.; et al., 89m:92019**

Ow, Peng Si *see* **Jaumard, Brigitte; et al., 89e:90074**

Paige, Robert (*with* Henglein, Fritz) Mechanical translation of set theoretic problem specifications into efficient RAM code—a case study. **89a:68020**

Pawlak, Zdzisław On rough dependency of attributes in information systems. (Russian summary) **89f:68014**

— On rough relations. (Russian summary) **89b:04004**

Perlis, Donald Languages with self-reference. II. Knowledge, belief, and modality. **89g:03039**

Personnaz, L. *see* **Guyon, I.; et al., 89m:92019**

Putnam, Hilary ★ Representation and reality. **89m:00018**

Rasiowa, Helena Logic approximating sequences of sets. **89j:03018**

Richmond, William B. *see* **Moore, James C.; et al.,** (**89g:90136**)

Rozenblyum, L. Ya. *see* **Vagin, V. N.; et al., 89k:68113**

Shafer, Glenn Belief functions and possibility measures. **89c:03041**

Simeone, B. *see* **Jaumard, Brigitte; et al., 89e:90074**

Tserkovnyi, A. È. Fuzzy logic and approximate reasoning. (Russian) **89g:03037**

Vagin, V. N. (*with* Zakharov, V. N.; Rozenblyum, L. Ya.) Logical inference on interpreted Petri nets. **89k:68113**

Weber, Elke U. Expectation and variance of item resemblance distributions in a convolution-correlation model of distributed memory. **89e:92054**

Whinston, Andrew B. *see* **Moore, James C.; et al.,** (**89g:90136**)

Williams, Anthony D. The development of an intelligent interface to a computational fluid dynamics flow-solver code. **89g:76001**

Xiong, Guang Leng (*with* Yang, Tai Cheng) The development of expert systems for the computer-aided design of control systems. (Chinese. English summary) (Not in MR)

Yang, Tai Cheng *see* **Xiong, Guang Leng,** (Not in MR)

Zadeh, L. A. Dispositional logic. (Not in MR)

Zakharov, V. N. *see* **Vagin, V. N.; et al., 89k:68113**

Zimmermann, Hans-J. Fuzzy set theory—and inference mechanism. (*see* **89g:90136**)

Zisserman, Andrew *see* **Blake, Andrew, 89k:92086**

68Uxx Computing methodologies

68U05 Computer graphics; computational geometry

Abramowski, S. (*with* Müller, Heinrich Augustinus) Collision avoidance for nonrigid objects. (German summary) **89h:68140**

Aggarwal, Alok (*with* Chazelle, Bernard; Guibas, Leonidas J.; Ó'Dúnlaing, Colm; Yap, Chee-Keng) Parallel computational geometry. **89h:68141**

Alt, Helmut (*with* Mehlhorn, Kurt; Wagener, Hubert; Welzl, Emo) Congruence, similarity, and symmetries of geometric objects. **89d:68083**

— (*with* Welzl, Emo) Visibility graphs and obstacle-avoiding shortest paths. (German summary) **89k:68141**

Asano, Takao *see* **Edahiro, Masato; et al., 89m:68132**

Atkinson, Michael D. Selecting subsets of the correct density. **89a:68202**

Aurenhammer, F. Improved algorithms for discs and balls using power diagrams. **89h:68142**

Avis, David (*with* Doskas, Mike) Algorithms for high-dimensional stabbing problems. (*see* **89a:68011**)

— (*with* Wenger, Rephael) Polyhedral line transversals in space. **89i:68120**

Avnaim, Francis (*with* Boissonnat, Jean Daniel) Polygon placement under translation and rotation. (*see* **89b:68011**)

Baltsan, Avikam (*with* Sharir, M.) On the shortest paths between two convex polyhedra. **89g:68065**

Bandemer, Hans (*with* Hulsch, Friedrich; Lehmann, Arndt) A watershed algorithm adapted to functions on grids. (German and Russian summaries) **89g:68066**

Bárány, I. (*with* Füredi, Z.) Computing the volume is difficult. **89a:68203**

Bertossi, Alan A. Parallel circle-cover algorithms. (Not in MR)

Bjørke, Øyvind *see* **Wang, Kesheng,** (**89g:00018**)

Bloomenthal, Jules Polygonization of implicit surfaces. (Not in MR)

Boissonnat, Jean Daniel *see* **Avnaim, Francis,** (**89b:68011**)

Canny, John (*with* Donald, Bruce) Simplified Voronoĭ diagrams. **89c:68092**

Chazelle, Bernard (*with* Edelsbrunner, Herbert) Linear space data structures for two types of range search. **89a:68204**

— *see also* **Aggarwal, Alok; et al., 89h:68141**

Chin, Wei-Pang (*with* Ntafos, Simeon) Optimum watchman routes. **89f:68063**

Chomut, Tuval *see* **Inselberg, Alfred; et al., 89a:68207**

Clarkson, Kenneth L. A randomized algorithm for closest-point queries. **89h:68143**

Creutzburg, Egbert (*with* Hübler, Albrecht; Sýkora, O.) Geometric methods for on-line recognition of digital straight line segments. (Russian summary) **89k:68142**

Dassow, Jürgen Convexity and simplicity of chain code picture languages. **89j:68147**

Deneen, Linda (*with* Shute, Gary) Polygonizations of point sets in the plane. **89e:68113**

Devroye, Luc The expected size of some graphs in computational geometry. **89g:68067**

Dobkin, David P. Computational geometry—then and now. (*see* **89a:68011**)

Donald, Bruce *see* **Canny, John, 89c:68092**

Doskas, Mike *see* **Avis, David,** (**89a:68011**)

Edahiro, Masato (*with* Tanaka, Katsuhiko; Hoshino, Takashi; Asano, Takao) A bucketing algorithm for the orthogonal segment intersection search problem and its practical efficiency. **89m:68132**

Edelsbrunner, Herbert ★ Algorithms in combinatorial geometry. **89a:68205**

— (*with* Preparata, F. P.) Minimum polygonal separation. **89f:68064**

— *see also* **Chazelle, Bernard, 89a:68204** *and* **Shen, Xiaojun, 89e:68115**

Erdmann, Michael (*with* Lozano-Pérez, Tomás) On multiple moving objects. **89h:68144**

Fiume, E. (*with* Fournier, Alain) The visible surface problem under abstract graphic models. (*see* **89a:68011**)

Fournier, Alain *see* **Fiume, E.,** (**89a:68011**)

Füredi, Z. *see* **Bárány, I., 89a:68203**

Gburzynski, Pawel (*with* Jaromczyk, Jurek W.) Comparison of two algorithms solving a version of the "ham-sandwich" problem. **89m:68133**

Gong, Wei Random visit array (RVA) storage structures of trees. (Chinese. English summary) **89k:68143**

Guggenheimer, H. Computing frames along a trajectory. **89k:68144**

Guibas, Leonidas J. (*with* Stolfi, Jorge) Ruler, compass and computer: the design and analysis of geometric algorithms. (*see* **89a:68011**)

— *see also* **Hershberger, John, 89e:68114** *and* **Aggarwal, Alok; et al., 89h:68141**

Guo, Shao Zhong *see* **Ma, Feng Ning, 89h:68147**

Hershberger, John (*with* Guibas, Leonidas J.) An $O(n^2)$ shortest path algorithm for a nonrotating convex body. **89e:68114**

Hinrichs, Klaus (*with* Nievergelt, Jürg; Schorn, Peter) Plane-sweep solves the closest pair problem elegantly. **89a:68206**

Hoffmann, Christoph (*with* Hopcroft, John) The geometry of projective blending surfaces. **89m:68134**

von Hohenbalken, Balder An algorithm for set operations on nonconvex polygons (with an application to census tracts). **89j:68148**

(Hong, Jia Rong) *see* **Olariu, Stephan; et al., 89j:68149**

Hopcroft, John *see* **Hoffmann, Christoph, 89m:68134**

Hoshino, Takashi *see* **Edahiro, Masato; et al., 89m:68132**

Hübler, Albrecht *see* **Creutzburg, Egbert; et al., 89k:68142**

Hulsch, Friedrich *see* **Bandemer, Hans; et al., 89g:68066**

Inselberg, Alfred (*with* Chomut, Tuval; Reif, Mordechai) Convexity algorithms in parallel coordinates. **89a:68207**

Jaromczyk, Jurek W. *see* **Gburzynski, Pawel, 89m:68133**

Jerinić, Ljubomir *see* **Stojmenović, I.,** (Not in MR)

Karlsson, Rolf G. (*with* Overmars, Mark H.) Scanline algorithms on a grid. **89b:68058**

Katajainen, Jyrki The region approach to computing relative neighbourhood graphs in the L_p metric. (German summary) **89m:68135**

Kaufman, Arie Efficient algorithms for 3D scan-conversion of parametric curves, surfaces, and volumes. (*see* **89j:68151**)

Ke, Yan (*with* O'Rourke, Joseph) Lower bounds on moving a ladder in two and three dimensions. **89b:68059**

Kirkpatrick, David Establishing order in planar subdivisions. **89g:68068**

Kuboi, Fujio A simple method of generating spline curves under tension. (Not in MR)

Kulaš, Marija *see* **Stojmenović, I.,** (Not in MR)

Kuo, Yü Shên *see* **Wang, D. W., 89i:68121**

Laumond, Jean-Paul Obstacle growing in a nonpolygonal world. **89a:68208**

Lehmann, Arndt *see* **Bandemer, Hans; et al., 89g:68066**

Lenhart, W. (*with* Pollack, Richard; Sack, J.; Seidel, R.; Sharir, M.; Suri, Subhash; Toussaint, Godfried T.; Whitesides, S.; Yap, Chee-Keng) Computing the link center of a simple polygon. **89k:68145**

Li, Hui Optimal algorithms for determining the movability of convex polygons. **89k:68146**

Li, Shuo-Yen Robert Reconstruction of polygons from projections. **89h:68145**

Lienhardt, Pascal Extension of the notion of map and subdivisions of a three-dimensional space. (*see* **89b:68011**)

Liu, Robin (*with* Ntafos, Simeon) On decomposing polygons into uniformly monotone parts. **89a:68209**

Lozano-Pérez, Tomás *see* **Erdmann, Michael, 89h:68144**

Lumelsky, Vladimir J. (*with* Stepanov, Alexander A.) Path-planning strategies for a point mobile automaton moving amidst unknown obstacles of arbitrary shape. **89h:68146**

Ma, Feng Ning (*with* Guo, Shao Zhong) A study of central projection contours and contour lines of surfaces widely known in engineering. (Chinese. English summary) **89h:68147**

Makarov, I. M. (*with* Mikhaĭlov, A. M.; Rakhmankulov, V. Z.; Rutskov, M. V.) Software-tool package for modelling flexible manufacturing processes. **89f:68065**

Mäntylä, Martti ★ An introduction to solid modeling. **89g:68069**

Mehlhorn, Kurt *see* **Alt, Helmut; et al., 89d:68083**

Middleditch, Alan E. The representation and manipulation of convex polygons. (*see* **89a:68011**)

Mikhaĭlov, A. M. *see* **Makarov, I. M.; et al., 89f:68065**

Miller, Russ (*with* Stout, Quentin F.) Efficient parallel convex hull algorithms. **89m:68136**

Müller, Heinrich Augustinus *see* **Abramowski, S., 89h:68140**

Nestler, Th. Zwei Modelle für ebenflächig begrenzte Körper. [Two models for bodies bounded by plane surfaces] (*see* **89j:68005**)

Nievergelt, Jürg *see* **Hinrichs, Klaus; et al., 89a:68206**

Noltemeier, Hartmut Voronoĭ trees. **89k:68147**

Ntafos, Simeon *see* **Liu, Robin, 89a:68209** *and* **Chin, Wei-Pang, 89f:68063**

Ó'Dúnlaing, Colm Motion planning with inertial constraints. **89f:68066**

— A tight lower bound for the complexity of path-planning for a disc. **89k:68148**

— *see also* **Aggarwal, Alok; et al., 89h:68141**

Olariu, Stephan (*with* Toida, S.; Zubair, M.) On a conjecture by D. A. Plaisted and J. R. Hong. Comment on: "A heuristic triangulation algorithm" [J. Algorithms **8** (1987), no. 3, 405–437; MR 88g:68104]. **89j:68149**

O'Rourke, Joseph ★ Art gallery theorems and algorithms. **89f:68067**

— Uniqueness of orthogonal connect-the-dots. (*see* **89k:68151**)

— *see also* **Ke, Yan, 89b:68059**

Ottmann, Thomas (*with* Soisalon-Soininen, Eljas; Wood, Derick) Partitioning and separating sets of orthogonal polygons. **89h:68148**

Overmars, Mark H. Computational geometry on a grid: an overview. (*see* **89a:68011**)

— Efficient data structures for range searching on a grid. **89h:68149**

— *see also* **Karlsson, Rolf G., 89b:68058**

(Plaisted, D. A.) *see* **Olariu, Stephan; et al., 89j:68149**

Pollack, Richard (*with* Sharir, M.; Sifrony, S.) Separating two simple polygons by a sequence of translations. **89a:68210**

— *see also* **Lenhart, W.; et al., 89k:68145**

Preparata, F. P. *see* **Edelsbrunner, Herbert, 89f:68064**

Provan, J. Scott Shortest enclosing walks and cycles in embedded graphs. **89k:68149**

Rakhmankulov, V. Z. *see* **Makarov, I. M.; et al., 89f:68065**

Reichling, Matthias On the detection of a common intersection of k convex objects in the plane. **89j:68150**

Reif, Mordechai *see* **Inselberg, Alfred; et al., 89a:68207**

Rohnert, Hans Time and space efficient algorithms for shortest paths between convex polygons. (Not in MR)

Rutskov, M. V. *see* **Makarov, I. M.; et al., 89f:68065**

Sack, J. *see* **Lenhart, W.; et al., 89k:68145**

Salowe, Jeffrey S. L-infinity interdistance selection by parametric search. **89m:68137**

Santoro, Nicola (*with* Sidney, Jeffrey B.; Sidney, Stuart J.; Urrutia, Jorge) Geometric containment and vector dominance. **89f:68068**

— (*with* Sidney, Jeffrey B.; Sidney, Stuart J.; Urrutia, Jorge) Geometric containment, common roots of polynomials and partial orders. **89d:68084**

Schorn, Peter *see* **Hinrichs, Klaus; et al., 89a:68206**

Schwartz, Jacob T. (*with* Sharir, M.) Motion planning and related geometric algorithms in robotics. **89h:68150**

— *see also* **Algorithmic and geometric aspects of robotics, 89m:68138**

Seidel, R. *see* **Lenhart, W.; et al., 89k:68145**

Sharir, M. Davenport-Schinzel sequences and their geometric applications. **89d:68085**

— *see also* **Pollack, Richard; et al., 89a:68210; Sifrony, S., 89f:68069; Baltsan, Avikam, 89g:68065; Schwartz, Jacob T., 89h:68150** *and* **Lenhart, W.; et al., 89k:68145**

Shen, Xiaojun (*with* Edelsbrunner, Herbert) A tight lower bound on the size of visibility graphs. **89e:68115**

Shute, Gary *see* **Deneen, Linda, 89e:68113**

Sidney, Jeffrey B. *see* **Santoro, Nicola; et al., 89d:68084** *and* **89f:68068**

Sidney, Stuart J. *see* **Santoro, Nicola; et al., 89d:68084** *and* **89f:68068**

Sifrony, S. (*with* Sharir, M.) A new efficient motion-planning algorithm for a rod in two-dimensional polygonal space. **89f:68069**

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Soisalon-Soininen, Eljas *see* **Ottmann, Thomas; et al., 89h:68148**

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68U10 Image processing

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68U15 Text processing; mathematical typography

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Mac an Airchinnigh, Mícheál *see* **Teo, Ghee S.**, (**89m:68093**)
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68U20 Simulation [see also 65Cxx]

Casey, Richard M. (*with* Jameson, Donald A.) Parallel and vector processing in landscape dynamics. **89h:68155**
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Srinivasan, Mandyam M. An approximation for mean waiting times in cyclic server systems with nonexhaustive service. **89j:90129**
Turski, W. M. Time considered irrelevant for real-time systems. (Not in MR)
Volkov, E. A. (*with* Govorukhin, D. N.; Koval′skaya, L. V.; Yakovlenko, V. V.) An algorithm for the analysis of the steady-state mode of an electrical circuit with complex nonlinearities under polyharmonic action. (Russian. English summary) **89i:94053**
Walrand, Jean *see* **Parekh, Shyam, 89c:60109**
Wonham, W. M. A control theory for discrete-event systems. **89j:93065**
Yakovlenko, V. V. *see* **Volkov, E. A.; et al., 89i:94053**
Yucesan, Enver *see* **Schruben, Lee W., 89i:68003**

Items listed otherwise than by author

Reliability in computing ★ Reliability in computing. **89j:65011**

68U30 Other applications

Canny, John ★ The complexity of robot motion planning. **89m:68142**
Drysdale, Robert L., III (*with* Jerard, Robert B.; Schaudt, Barry; Hauck, Ken) Discrete simulation of NC machining. **89m:68143**
Hauck, Ken *see* **Drysdale, Robert L., III; et al., 89m:68143**
Jerard, Robert B. *see* **Drysdale, Robert L., III; et al., 89m:68143**
Schaudt, Barry *see* **Drysdale, Robert L., III; et al., 89m:68143**

Items with secondary classifications in 68U30

Anisimov, P. A. (*with* Marichuk, M. N.) ★ Системы оперативного управления дискретными производствами. (Russian) [Systems for the operative control of discrete productions] **89h:68013**
Brackx, F. (*with* Constales, Denis; Delanghe, R.; Serras, Herman) Clifford algebra with REDUCE. **89i:15035**
Cai, Da Yong (*with* Fan, Su Zhen) A component of NS-ITPACK—L101. (Chinese. English summary) **89h:65234**
Constales, Denis *see* **Brackx, F.; et al., 89i:15035**
Delanghe, R. *see* **Brackx, F.; et al., 89i:15035**
Fan, Su Zhen *see* **Cai, Da Yong, 89h:65234**
Kiselev, V. G. (*with* Yakovlev, A. F.) Some mathematical problems arising in the computer realization of geographical information systems. (Russian) **89h:92066**
Kramer, Thomas Automated analysis of operators on state tables: a technique for intelligent search. **89j:68142**
Marichuk, M. N. *see* **Anisimov, P. A., 89h:68013**
Serras, Herman *see* **Brackx, F.; et al., 89i:15035**

Świniarski, Roman Microcomputer application to adaptive time-optimal control. (Russian and Polish summaries) (Not in MR)
Yakovlev, A. F. *see* **Kiselev, V. G., 89h:92066**

68U99 None of the above, but in this section

Bancilhon, François *see* **Korth, Henry F.; et al., 89h:68156**
Fatmi, H. A. (*with* Resconi, G.) A new computing principle. **89i:68123**
Kim, Won *see* **Korth, Henry F.; et al., 89h:68156**
Korth, Henry F. (*with* Kim, Won; Bancilhon, François) On long-duration CAD transactions. **89h:68156**
Mishra, Bhubaneswar (*with* Schwartz, Jacob T.; Sharir, M.) On the existence and synthesis of multifinger positive grips. **89h:68157**
Onishchenko, A. V. The principle of constructing a language for the control of a computer-aided design system devised from operationally complete functional modules. (Russian) (*see* **89f:00011**)
Resconi, G. *see* **Fatmi, H. A., 89i:68123**
Schwartz, Jacob T. *see* **Mishra, Bhubaneswar; et al., 89h:68157**
Sharir, M. *see* **Mishra, Bhubaneswar; et al., 89h:68157**

Items with secondary classifications in 68U99

Domany, Eytan Neural networks: a biased overview. (*see* **89e:82001**)
Gibson, J. K. A generalisation of Brickell's algorithm for fast modular multiplication. **89m:68058**
Graham, Ian (*with* Jones, Peter Llewelyn) ★ Expert systems. **89m:68130**
Gregory, R. T. (*with* Krishnamurthy, E. V.) ★ Безошибочные вычисления. (Russian) [Error-free calculations] **89j:65030**
Huang, Kai Yuan Three-valued diagnosable systems: diagnosability, optimal design and fault identification algorithm. **89h:68009**
(Ikramov, Kh. D.) *see* **Gregory, R. T., 89j:65030**
Jones, Peter Llewelyn *see* **Graham, Ian, 89m:68130**
(Knyazev, Andreĭ Vladimirovich) *see* **Gregory, R. T., 89j:65030**
Krishnamurthy, E. V. *see* **Gregory, R. T., 89j:65030**

70–XX Mechanics of particles and systems {For relativistic mechanics, see 83A05 and 83C10; for statistical mechanics, see 82–XX.}

70–01 Elementary exposition; textbooks

Battin, Richard H. ★ An introduction to the mathematics and methods of astrodynamics. **89c:70001**
Boutigny, Jacques ★ Mécanique. 1. (French) [Mechanics. 1] **89a:70001a**
— ★ Mécanique. 2. (French) [Mechanics. 2] **89a:70001b**
Ludwig, Günther ★ Einführung in die Grundlagen der theoretischen Physik. Band 1. (German) [Introduction to the foundations of theoretical physics. Vol. 1] **89e:70001**
(Przemieniecki, J. S.) *see* **Battin, Richard H., 89c:70001**
Tenti, G. (*with* Young, John H.) Gravitational attraction between bodies of finite dimensions: a brief review. **89m:70001**
Thirring, W. E. ★ Lehrbuch der Mathematischen Physik. Band 1. (German) [Textbook of mathematical physics. Vol. 1] **89i:70001**
Woodhouse, N. M. J. ★ Introduction to analytical dynamics. **89c:70002**
Young, John H. *see* **Tenti, G., 89m:70001**

Items with secondary classifications in 70–01

Artobolevskiĭ, I. I. ★ Теория механизмов и машин. (Russian) [The theory of mechanisms and machines] **89m:70002**
(Bessonov, A. P.) *see* **Artobolevskiĭ, I. I., 89m:70002**
(Bogolyubov, Alekseĭ Nikolaevich) *see* **Artobolevskiĭ, I. I., 89m:70002**
Gorman, D. G. (*with* Kennedy, William) ★ Applied solid dynamics. **89h:73001**
Hagedorn, Peter ★ Nonlinear oscillations. **89h:70008**
Kennedy, William *see* **Gorman, D. G., 89h:73001**
Landau, L. D. (*with* Lifshits, E. M.) ★ Теоретическая физика. Том I. (Russian) [Theoretical physics. Vol. I] **89i:00008**
(Levitskiĭ, N. I.) *see* **Artobolevskiĭ, I. I., 89m:70002**
Lifshits, E. M. *see* **Landau, L. D., 89i:00008**
(Pitaevskiĭ, L. P.) *see* **Landau, L. D., 89i:00008**
(Stadler, Wolfram) *see* **Hagedorn, Peter, 89h:70008**
Szebehely, Victor Sir Isaac Newton and modern celestial mechanics. **89b:01004**
— Celestial mechanics since Newton. **89b:01005**

70–02 Advanced exposition (research surveys, monographs, etc.)

Brdička, Miroslav (*with* Hladík, Arnošt) ★ Teoretická mechanika. (Czech) [Theoretical mechanics] **89e:70002**
Hladík, Arnošt *see* **Brdička, Miroslav, 89e:70002**
Leipholz, H. H. E. ★ Stability theory. **89b:70001**
Martynyuk, A. A. *see* **Mitropol′skiĭ, Yu. A., 89g:70001**
Mitropol′skiĭ, Yu. A. (*with* Martynyuk, A. A.) Some results and current problems in the theory of periodic motions and in nonlinear mechanics (a survey). **89g:70001**

Items with secondary classifications in 70–02

Haymond, Robert E. (*with* Thornton, John R.; Warner, Daniel D.) A shortest path algorithm in robotics and its implementation on the FPS T-20 hypercube. (Not in MR)
Lopatin, A. K. *see* **Mitropol′skiĭ, Yu. A., 89h:34002**
Mitropol′skiĭ, Yu. A. (*with* Lopatin, A. K.) ★ Теоретико-групповой подход в асимптотических методах нелинейной механики. (Russian) [Group-theoretic approach in asymptotic methods of nonlinear mechanics] **89h:34002**
Samoĭlenko, A. M. ★ Элементы математической теории многочастотных колебаний. Инвариантные торы. (Russian) [Elements of the mathematical theory of multifrequency oscillations. Invariant tori] **89d:34071**
Sobolev, V. A. *see* **Strygin, V. V., 89k:34071**
Strygin, V. V. (*with* Sobolev, V. A.) ★ Разделение движений методом интегральных многообразий. (Russian) [Separation of motions by the method of integral manifolds] **89k:34071**
Thornton, John R. *see* **Haymond, Robert E.; et al.**, (Not in MR)
Warner, Daniel D. *see* **Haymond, Robert E.; et al.**, (Not in MR)

70–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 70–03

Barthélemy, Georges De la force accélératrice dans les *Principia*. (English summary) [Accelerative force in the *Principia*] **89m:01033**
Bogolyubov, Alekseĭ Nikolaevich Geometry and mechanics in the works of J.-V. Poncelet. (Russian) **89d:01036**
— *see also* **History of mechanics in Russia, 89d:01077**
(Bohlin, Karl) *see* **Poincaré, Henri, 89e:01054b**
Fellmann, E. A. The *Principia* and continental mathematicians. **89d:01020**
Filonovich, S. R. Experiment in I. Newton's *Principia*. (Russian) **89d:01022**
(Gyldén, Hugo) *see* **Poincaré, Henri, 89e:01054b**
(Huygens, Christiaan) *see* **Fellmann, E. A., 89d:01020**
Ishlinskiĭ, A. Yu. The world of classical Galilean-Newtonian mechanics. (Russian) **89a:01020**
Kharlamov, P. V. The concept of force in Newton's mechanics. (Russian) **89i:01036**
(Kovalevsky, J.) *see* **Poincaré, Henri, 89e:01054a**
Kudryashova, L. V. (*with* Stepanova, L. A.) The Donetsk school of rigid body dynamics. (Russian) **89c:01096**
(Leibniz, G. W.) *see* **Fellmann, E. A., 89d:01020**
(Lindstedt, A.) *see* **Poincaré, Henri, 89e:01054b**
Mikhaĭlov, G. K. Newton's *Philosophiae naturalis principia mathematica* (on the occasion of the 300th anniversary of its first publication). (Russian) (*see* **89f:70001**)
(Newcomb, Simon) *see* **Poincaré, Henri, 89e:01054b**
(Newton, Isaac) *see* **Fellmann, E. A., 89d:01020; Filonovich, S. R., 89d:01022; Barthélemy, Georges, 89m:01033** *and* **Mikhaĭlov, G. K., (89f:70001)**
(Nieuwentijt, Bernard) *see* **Fellmann, E. A., 89d:01020**
Poincaré, Henri ★ Les méthodes nouvelles de la mécanique céleste. Tome I. (French) [New methods of celestial mechanics. Vol. I] **89e:01054a**
— ★ Les méthodes nouvelles de la mécanique céleste. Tome II. (French) [New methods of celestial mechanics. Vol. II] **89e:01054b**
— ★ Les méthodes nouvelles de la mécanique céleste. Tome III. (French) [New methods of celestial mechanics. Vol. III] **89e:01054c**
(Poncelet, Jean-Victor) *see* **Bogolyubov, Alekseĭ Nikolaevich, 89d:01036**
(Shtokalo, Ĭ. Z.) *see* **History of mechanics in Russia, 89d:01077**
(Stäckel, P.) *see* **Tsyganova, N. Ya.**, (**89g:00008**)
Stepanova, L. A. *see* **Kudryashova, L. V., 89c:01096**
Szebehely, Victor Sir Isaac Newton and modern celestial mechanics. **89b:01004**
— Celestial mechanics since Newton. **89b:01005**
Tsyganova, N. Ya. Gauss's principle of least force in the research of P. Stäckel. (Russian) (*see* **89g:00008**)
Yuan, Xiao Ming Poincaré and celestial mechanics. (Chinese) **89j:01036**

Items listed otherwise than by author

History of mechanics in Russia ★ История механики в России. (Russian) [History of mechanics in Russia] **89d:01077**

70–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 70–04

Amirouche, F. M. L. *see* **Ider, S. K., 89m:70003**
Avramenko, L. G. (*with* Bordyug, B. A.; Larin, V. B.) Problems on the determination of the orientation of a rigid body. (Russian) **89e:70027**
Baranger, M. (*with* Davies, K. T. R.; Mahoney, J. H.) The calculation of periodic trajectories. **89i:70005**
Bordyug, B. A. *see* **Avramenko, L. G.; et al., 89e:70027**
Cumming, Andrew (*with* Linsay, Paul S.) Quasiperiodicity and chaos in a system with three competing frequencies. **89g:58129**
Davies, K. T. R. *see* **Baranger, M.; et al., 89i:70005**
Fairlie, D. B. (*with* Siegwart, D. K.) Classical billiards in a rotating boundary. **89e:58077**
Fedorenko, A. D. *see* **Karpinskaya, L. V.; et al., 89k:70016**
Heimann, B. (*with* Loose, H.) Computer-oriented method for multirigid body systems based on the recursive Newton-Euler-Lagrange formalism. (German and Russian summaries) (Not in MR)
Ider, S. K. (*with* Amirouche, F. M. L.) Coordinate reduction in the dynamics of constrained multibody systems—a new approach. **89m:70003**
Karpinskaya, L. V. (*with* Onishchenko, S. M.; Fedorenko, A. D.) A mathematical model of the motion of a rigid body along a spheroid under the action of central forces. (Russian) **89k:70016**
Larin, V. B. *see* **Avramenko, L. G.; et al., 89e:70027**
Linsay, Paul S. *see* **Cumming, Andrew, 89g:58129**
Loose, H. *see* **Heimann, B.**, (Not in MR)
Mahoney, J. H. *see* **Baranger, M.; et al., 89i:70005**
Melvin, Peter J. The figure-of-8 librations of the gravity gradient pendulum and modes of an orbiting tether. **89j:70042**
Nayfeh, Ali Hasan *see* **Zavodney, L. D.; et al., 89m:70047**
Ollongren, Alexander On a particular restricted five-body problem: an analysis with computer algebra. **89j:70015**
Onishchenko, S. M. *see* **Karpinskaya, L. V.; et al., 89k:70016**
Reid, Gregory J. Determination of the symmetries characterising separable systems in Euclidean spaces. **89f:70025**
Roekaerts, D. (*with* Yoshida, Haruo) Nonintegrability of homogeneous two-dimensional Hamiltonians with velocity-dependent potential. **89m:70030**
Sanchez, N. E. *see* **Zavodney, L. D.; et al., 89m:70047**
Shcherbina, G. A. A numerical method for constructing Lyapunov-Poincaré asymptotic motions. (Russian) **89k:58105**
Siegwart, D. K. *see* **Fairlie, D. B., 89e:58077**
Yoshida, Haruo *see* **Roekaerts, D., 89m:70030**
Zavodney, L. D. (*with* Nayfeh, Ali Hasan; Sanchez, N. E.) The response of a single-degree-of-freedom system with quadratic and cubic nonlinearities to a principal parametric resonance. **89m:70047**

70–05 Experimental papers

Peters, Randall D. Period estimate for the simple pendulum using optimization theory. **89i:70002**

70–06 Proceedings, conferences, etc.

(Bar′yakhtar, V. G.) *see* **Space science and technology, 89i:70003** *and* **89k:70001**
(Belen′kiĭ, I. M.) *see* **Problems in the mechanics of a rigid and a deformable body, 89g:70002**
(Ishlinskiĭ, A. Yu.) *see* **Mechanics and scientific technological progress, 89f:70001**
(Krasovskiĭ, N. N.) *see* **Mechanics and scientific technological progress, 89f:70001**
(Rubanovskiĭ, V. N.) *see* **Mechanics and scientific technological progress, 89f:70001**
(Rumyantsev, V. V.) *see* **Mechanics and scientific technological progress, 89f:70001**

Items listed otherwise than by author

Mechanics and scientific-technological progress ★ Механика и научно-технический прогресс. Том 1. (Russian) [Mechanics and scientific technological progress. Vol. 1] **89f:70001**
Problems in the mechanics of a rigid and a deformable body ★ Вопросы механики твердого и деформируемого тела. (Russian) [Problems in the mechanics of rigid and deformable bodies] **89g:70002**
Space science and technology ★ Космическая наука и техника. Вып. 2. (Russian) [Space science and technology. No. 2] **89i:70003**
— ★ Космическая наука и техника. Вып. 3. (Russian) [Space science and technology. No. 3] **89k:70001**

Items with secondary classifications in 70–06

(Anapol′skiĭ, L. Yu.) *see* **Method of Lyapunov functions in the analysis of the dynamics of systems, 89c:00040**
(Korolyuk, V. S.) *see* **Asymptotic methods in mathematical physics, 89g:00006**
(Matrosov, V. M.) *see* **Method of Lyapunov functions in the analysis of the dynamics of systems, 89c:00040**
(Meyer, K. R.) *see* **Hamiltonian dynamical systems, 89i:58046**
(Saari, Donald G.) *see* **Hamiltonian dynamical systems, 89i:58046**

Items listed otherwise than by author

All-Union School:
  Method of Lyapunov Functions and its Applications ★ Метод функций Ляпунова в анализе динамики систем. (Russian) [The method of Lyapunov functions in the analysis of the dynamics of systems] **89c:00040**
Asymptotic methods in mathematical physics ★ Асимптотические методы математической физики. (Russian) [Asymptotic methods in mathematical physics] **89g:00006**
Boulder, CO ★ Hamiltonian dynamical systems. **89i:58046**
Conference:
  Hamiltonian Dynamical Systems ★ Hamiltonian dynamical systems. **89i:58046**
Contemporary Mathematics ★ Hamiltonian dynamical systems. **89i:58046**
Hamiltonian dynamical systems ★ Hamiltonian dynamical systems. **89i:58046**
Irkutsk ★ Метод функций Ляпунова в анализе динамики систем. (Russian) [The method of Lyapunov functions in the analysis of the dynamics of systems] **89c:00040**
Method of Lyapunov functions in the analysis of the dynamics of systems ★ Метод функций Ляпунова в анализе динамики систем. (Russian) [The method of Lyapunov functions in the analysis of the dynamics of systems] **89c:00040**

70–08 Computational methods

Amirouche, F. M. L. (*with* Jia, T.) Pseudouptriangular decomposition method for constrained multibody systems using Kane's equations. **89i:70004**
— (*with* Jia, T.; Ider, S. K.) A recursive Householder transformation for complex dynamical systems with constraints. **89g:70003**
Apanovich, V. N. A method of constructing finite elements for external approximations of boundary value problems. (Russian) (Not in MR)
Baranger, M. (*with* Davies, K. T. R.; Mahoney, J. H.) The calculation of periodic trajectories. **89i:70005**
Bayo, Eduardo (*with* Garcia de Jalon, Javier; Serna, Miguel Angel) A modified Lagrangian formulation for the dynamic analysis of constrained mechanical systems. **89i:70006**
Davies, K. T. R. *see* **Baranger, M.; et al., 89i:70005**
Dowell, Earl H. *see* **Ferri, A. A., 89d:70001**

Feng, Kang (*with* Qin, Meng Zhao) The symplectic methods for the computation of Hamiltonian equations. **89e:70003**
Ferri, A. A. (*with* Dowell, Earl H.) Frequency domain solutions to multi-degree-of-freedom, dry friction damped systems. **89d:70001**
Garcia de Jalon, Javier *see* **Bayo, Eduardo; et al., 89i:70006**
Ibragimov, V. A. (*with* Nifagin, V. A.) Convergence of the expansion method with respect to the loading parameter in problems of elastoplastic deformation of rods. (Russian) (Not in MR)
Ider, S. K. *see* **Amirouche, F. M. L.; et al., 89g:70003**
Jia, T. *see* **Amirouche, F. M. L.; et al., 89g:70003** *and* **89i:70004**
Kale, R. G. (*with* Srirangarajan, H. R.) Optimum ultraspherical polynomial index for approximate analysis of nonlinear vibration problems. **89k:70002**
Klimov, D. M. Computer algebra methods for problems in mechanics. (Russian) **89j:70001**
Mahoney, J. H. *see* **Baranger, M.; et al., 89i:70005**
Martinović, R. An efficient algorithm for kinematic analysis of general spatial mechanical chains. **89f:70002**
Mickens, R. E. Iteration procedure for determining approximate solutions to nonlinear oscillator equations. **89e:70004**
Nifagin, V. A. *see* **Ibragimov, V. A.,** (Not in MR)
Panov, A. P. Optimization, with respect to responsiveness, of algorithms for the computation of quaternions in the case of precession of a cosmic apparatus. (Russian) (*see* **89i:70003**)
— Adaptive precession algorithms for calculations of quaternions of the rotation of a rigid body. (Russian) **89k:70003**
Qin, Meng Zhao *see* **Feng, Kang, 89e:70003**
Serna, Miguel Angel *see* **Bayo, Eduardo; et al., 89i:70006**
Srirangarajan, H. R. *see* **Kale, R. G., 89k:70002**

Items with secondary classifications in 70–08

Abe, Kanji *see* **Itoh, Toshiaki, 89j:70025**
de Aguiar, M. A. M. (*with* Malta, C. P.; Baranger, M.; Davies, K. T. R.) Bifurcations of periodic trajectories in nonintegrable Hamiltonian systems with two degrees of freedom: numerical and analytical results. **89b:58175**
Baranger, M. *see* **de Aguiar, M. A. M.; et al., 89b:58175**
Carrier, J. (*with* Greengard, Leslie; Rokhlin, Vladimir V.) A fast adaptive multipole algorithm for particle simulations. **89e:65008**
Cerveró, José M. (*with* Villarroel, J.) Contact symmetries and integrable nonlinear dynamical systems. **89d:70019**
Davies, K. T. R. *see* **de Aguiar, M. A. M.; et al., 89b:58175**
Davoodi, H. *see* **Noori, M.; et al., 89i:70040**
Evans, S. J. *see* **Thomas, Ruth Margaret,** (Not in MR)
Feng, Kang *see* **Ge, Zhong, 89m:70029**
Ge, Zhong (*with* Feng, Kang) On the approximation of linear Hamiltonian systems. **89m:70029**
Greengard, Leslie ★ The rapid evaluation of potential fields in particle systems. **89k:31008**
— *see also* **Carrier, J.; et al., 89e:65008**
Itoh, Toshiaki (*with* Abe, Kanji) Hamiltonian-conserving discrete canonical equations based on variational difference quotients. **89j:70025**
Jaffé, Charles (*with* Watanabe, Masakatsu) Time-independent adiabatic switching: nonintegrable classical systems. **89k:70033**
Jain, Rajinder Kumar (*with* Kumar, Rajive^2) A sixth-order modification of the Stiefel-Bettis method for nonlinearly damped oscillators. **89m:65068**
Kumar, Rajive^2 *see* **Jain, Rajinder Kumar, 89m:65068**
Langley, R. S. An investigation of multiple solutions yielded by the equivalent linearization method. **89j:70039**
Leung, A. Y. T. Inverse iteration for the quadratic eigenvalue problem. **89f:65041**
Malta, C. P. *see* **de Aguiar, M. A. M.; et al., 89b:58175**
Malyshev, V. A. Lagrange equations of the first kind for a mechanical system of rigid bodies. (Russian. English summary) **89i:70007**
Namburu, Raju R. *see* **Tamma, Kumar K., 89j:73008**
Noori, M. (*with* Davoodi, H.; Saffar, A.) An Itô-based general approximation method for random vibration of hysteretic systems. I. Gaussian analysis. **89i:70040**
Pârv, Bazil The use of Lie series to obtain the approximate solution of the *n*-body problem. **89f:70017**
Potts, Renfrey B. Discrete Lagrange equations. **89a:70018**
Rokhlin, Vladimir V. *see* **Carrier, J.; et al., 89e:65008**
Rosenthal, Dan E. Triangularization of equations of motion for robotic systems. **89i:70008**
Saffar, A. *see* **Noori, M.; et al., 89i:70040**
Stejskal, Vladimír *see* **Valášek, Michael, 89b:70002**
Tamma, Kumar K. (*with* Namburu, Raju R.) A new finite element based Lax-Wendroff/Taylor-Galerkin methodology for computational dynamics. **89j:73008**
Thomas, Ruth Margaret (*with* Evans, S. J.) A single-step algorithm for oscillatory problems. (Not in MR)
To, C. W. S. Random response of a Duffing oscillator by the stochastic central difference method. **89f:70036**
Vacca, Jacopa Harmonic balance and classical variational methods. (Italian. English summary) **89i:70025**
Valášek, Michael (*with* Stejskal, Vladimír) The comparison of matrix and quaternion approaches towards kinematics. **89b:70002**
Villarroel, J. *see* **Cerveró, José M., 89d:70019**
Wang, T. K. *see* **Xiong, Yue, 89f:70027**
Watanabe, Masakatsu *see* **Jaffé, Charles, 89k:70033**
Xiong, Yue (*with* Wang, T. K.) Vibration and stability of a nonconservative two-degree-of-freedom system. **89f:70027**
Zheng, Zhao Bo An efficient method for obtaining the eigenvectors of a ring system. **89c:65052**

70A05 Axiomatics, foundations

Janković, Z. A critical remark on the concept of mass. **89j:70002**

Items with secondary classifications in 70A05

Chobanov, Georgi Iv. (*with* Chobanov, Ivan) Lagrange's and Appell's equations for rigid bodies deduced from Euler's dynamical axioms. (Bulgarian summary) **89d:70004**
— (*with* Chobanov, Ivan) An apparent dynamic paradox. I. Lagrangian mechanics? (Bulgarian. English and Russian summaries) **89g:70013**
Chobanov, Ivan Complex standard vector spaces. (Russian summary) **89h:15002**
— *see also* **Chobanov, Georgi Iv., 89d:70004** *and* **89g:70013**
Lal, R. N. On fuzzy mechanical structures. I, II. **89f:03051**
Tulczyjew, Włodzimierz M. Frame independence of analytical mechanics. (Italian summary) **89j:70022**

70Bxx Kinematics [see also 53A17]

70B10 Kinematics of a rigid body

Acker, Constantin Corneliu C. (*with* Acker, Constantin L.) On the position of the pole of acceleration. (Romanian. French summary) **89k:70004**
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70B15 Mechanisms and linkages, robots

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Amirouche, F. M. L. *see* **Ider, S. K., 89m:70003**
Arefin, I. G. Stabilization of the programmed motions of a manipulation robot on the basis of the recurrent form of the equations of motion. (Russian. English summary) **89a:70003**
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B″chvarov, S. N. (*with* Kolev, P. K.) Investigation of the dynamics of the regional motions of a certain type of manipulating robot. (Bulgarian. English and Russian summaries) **89e:70005**
(Bessonov, A. P.) *see* **Artobolevskiĭ, I. I., 89m:70002**
(Bogolyubov, Alekseĭ Nikolaevich) *see* **Artobolevskiĭ, I. I., 89m:70002**
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Keus, C. *see* **Jonker, J. B., (89g:58004)**
Kolev, P. K. *see* **B″chvarov, S. N., 89e:70005**
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(Levitskiĭ, N. I.) *see* **Artobolevskiĭ, I. I., 89m:70002**
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(Baker, J. Eddie) *see* **Tarnai, Tibor, 89f:51086**

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Bordyug, B. A. Computer algebra methods in problems of the control of the motion of walking apparatus. (Russian) **89k:93079**

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Mishra, Bhubaneswar (*with* Schwartz, Jacob T.; Sharir, M.) On the existence and synthesis of multifinger positive grips. **89h:68157**

Miyasato, Yoshihiko (*with* Oshima, Yasujiro) Nonlinear adaptive control for robotic manipulators with continuous control inputs. (Not in MR)

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Potts, Renfrey B. *see* **Tan, H. H., 89h:49030**

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Whiteley, Walter Applications of the geometry of rigid structures. **89a:52029**

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Yang, Han He *see* **Tang, Jian Zhong; et al.**, (Not in MR)

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70B99 None of the above, but in this section

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70Cxx Statics

70C05 Forces, fields

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Szyszka, U. *see* **Frischmuth, K., 89i:70009**

70C10 Potential energy

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70C99 None of the above, but in this section

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70Dxx Dynamics of a particle [see also 70Hxx]

70D05 Newtonian dynamics

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de Villiers, J. M. *see* **Theron, W. F. D., 89i:70011**

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Tulczyjew, Włodzimierz M. Frame independence of analytical mechanics. (Italian summary) **89j:70022**

70D10 Lagrangian dynamics

Crampin, M. (*with* Prince, G. E.) Alternative Lagrangians for spherically symmetric potentials. **89h:70001**

Mackie, A. G. Analysis of a collision problem. **89j:70006**

Prince, G. E. *see* **Crampin, M., 89h:70001**

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Yasui, Yukinori *see* **Uehara, Shozo, 89g:81031**

70D99 None of the above, but in this section

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Sazonov, V. V. (*with* Voronin, A. A.) Periodic motions of gyroscopic systems. (Russian) **89c:70012**

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70Exx Dynamics of rigid bodies

70E05 Motion of the gyroscope

Burov, A. A. Nonintegrability of the equations of motion of a gyroscope in a Cardano suspension. (Russian) **89e:70009**

Grioli, Giuseppe On the motion of a rigid solid body in a gravitational field. (Italian) **89m:70004**

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Koval'skiĭ, I. P. Stabilization of the motion of a solid body of variable structure with a fixed point. (Russian) **89k:70007**

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Rubanovskiĭ, V. N. Steady motions of a body suspended from a rod, their branching and stability. (Russian) **89i:70013**

— Relative equilibria of a satellite-gyrostat, their branchings and stability. (Russian) **89m:70005**

Sarychev, V. A. (*with* Mirer, S. A.; Odintsova, S. A.) Steady motions of a gyrostat suspended from a string. (Russian) **89i:70014**

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Items with secondary classifications in 70E05

Bolgrabskaya, I. A. (*with* Savchenko, A. Ya.) Investigation of some dynamic properties of systems with distributed parameters on the basis of a model for a system of connected absolutely rigid bodies. (Russian) **89f:70008**

Bublik, G. F. On the theory of vibration-isolated ground gyrocompasses under conditions of random perturbations. (Russian) **89f:70034**

Gorr, G. V. (*with* Kononykhin, G. A.) On the dynamic impossibility of Grioli regular precession in the motion of a rigid body suspended by a rod. **89j:70008**

Kononykhin, G. A. *see* **Gorr, G. V., 89j:70008**

Krasinskiĭ, A. Ya. (*with* Ronzhin, V. V.) On stabilization of steady motions of mechanical systems with cyclic coordinates. (Russian) **89k:70025**

Ronzhin, V. V. *see* **Krasinskiĭ, A. Ya., 89k:70025**

Savchenko, A. Ya. *see* **Bolgrabskaya, I. A., 89f:70008**

Sławianowski, J. J. Nonlinear torsional vibrations of rigid bodies. (Russian and Polish summaries) **89j:70009**

Sobolev, V. A. Asymptotic expansions of the integral manifolds and Lyapunov functions of singularly perturbed systems. (Russian) **89g:34064**

— *see also* **Strygin, V. V., 89k:34071**

Strygin, V. V. (*with* Sobolev, V. A.) ★ Разделение движений методом интегральных многообразий. (Russian) [Separation of motions by the method of integral manifolds] **89k:34071**

70E10 Motion of projectiles and rockets

Items with secondary classifications in 70E10

Adler, Mark (*with* van Moerbeke, Pierre) The Kowalewski and Hénon-Heiles motions as Manakov geodesic flows on SO(4)—a two-dimensional family of Lax pairs. **89b:58085**

Bolgrabskaya, I. A. (*with* Savchenko, A. Ya.) Investigation of some dynamic properties of systems with distributed parameters on the basis of a model for a system of connected absolutely rigid bodies. (Russian) **89f:70008**

Markeev, A. P. Asymptotic trajectories and stability of periodic motions of an autonomous Hamiltonian system with two degrees of freedom. (Russian) **89k:70034**

van Moerbeke, Pierre *see* **Adler, Mark, 89b:58085**

Savchenko, A. Ya. *see* **Bolgrabskaya, I. A., 89f:70008**

70E15 Motion of a general rigid body

Acker, Constantin Corneliu C. (*with* Acker, Constantin L.) The position of the pole of accelerations in usual particular motions. (Romanian. French summary) **89m:70006**

Acker, Constantin L. *see* **Acker, Constantin Corneliu C., 89m:70006**

Arczewski, K. Application of graph theory to the determination of kinetic energy of rigid body systems. **89a:70008a**

Baillieul, J. (*with* Levi, Mark) Rotational elastic dynamics. **89a:70009**

Balli, Raffaele Degenerate generalized precessions of a rigid body in a Newtonian field. (Italian. French summary) **89k:70008**

Banshchikov, A. V. Stability of vertical permanent rotations in the Roze problem. (Russian) **89h:70002**

Bogaevskiĭ, V. N. (*with* Ostrer, L. A.) On the stability of permanent rotations of a rigid body. **89e:70010**

Bryum, A. Z. (*with* Gorr, G. V.) The sufficient conditions for the existence of asymptotically pendulum-like motions of a heavy rigid body with a fixed point. **89e:70011**

Chobanov, Georgi Iv. (*with* Chobanov, Ivan) Lagrange's and Appell's equations for rigid bodies deduced from Euler's dynamical axioms. (Bulgarian summary) **89d:70004**

Chobanov, Ivan *see* **Chobanov, Georgi Iv., 89d:70004**

Dokshevich, A. I. Solutions in closed form of equations of motion of the Kovalevskaya top. (Russian) **89m:70007**

Fedorov, Yu. N. Integration of a generalized problem on the rolling of a Chaplygin ball. (Russian) **89c:70005**

Garcia, André (*with* Hubbard, M.) Spin reversal of the rattleback: theory and experiment. **89h:70003**

Gorr, G. V. (*with* Kononykhin, G. A.) On the dynamic impossibility of Grioli regular precession in the motion of a rigid body suspended by a rod. **89j:70008**

— (*with* Kovalev, V. M.) Asymptotically uniform motions around an inclined axis in a generalized problem of the motion of a rigid body with a fixed point. (Russian) **89g:70004**

— *see also* **Bryum, A. Z., 89e:70011**

Grossman, Robert (*with* Krishnaprasad, P. S.; Marsden, Jerrold E.) The dynamics of two coupled rigid bodies. **89k:70009**

Hubbard, M. *see* **Garcia, André, 89h:70003**

Isakov, A. V. *see* **Sarychev, V. A.; et al., 89a:70010**

Kharlamova, E. I. (*with* Stepanova, L. A.) On the isomorphism of some classical problems of the dynamics of a rigid body and on attempts at constructing new solutions by a change of variables. (Russian) **89f:70005**

Kononykhin, G. A. *see* **Gorr, G. V., 89j:70008**

Konyaev, Yu. A. (*with* Martynenko, Yu. G.) On the stability of the stationary rotations of a symmetric rigid body in an alternating magnetic field. **89m:70008**

Koshlyakov, V. N. Rodrigues-Hamilton parameters in problems of the dynamics of a rigid body. (Russian) **89k:70010**

— Equations of motion of a heavy rigid body in Rodrigues-Hamilton parameters. **89d:70005**

Kovalev, V. M. *see* **Gorr, G. V., 89g:70004**

Krishnaprasad, P. S. *see* **Grossman, Robert; et al., 89k:70009**

Levi, Mark *see* **Baillieul, J., 89a:70009**

Marsden, Jerrold E. *see* **Grossman, Robert; et al., 89k:70009**

Martynenko, Yu. G. *see* **Konyaev, Yu. A., 89m:70008**

Mirer, S. A. *see* **Sarychev, V. A.; et al., 89a:70010**

Moshchuk, N. K. Qualitative analysis of the motion of a rigid body of revolution on an absolutely rough plane. (Russian) **89m:70009**

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Diamandiev, Vasil An application of the Darboux method for a nonholonomic problem. (Bulgarian. English and Russian summaries) **89c:70023**

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Krishnaprasad, P. S. *see* **Posbergh, Thomas A.; et al., 89g:58113**

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70E20 Perturbation methods for Euler's equations

Dovbysh, S. A. Intersection of asymptotic surfaces of the perturbed Euler-Poinsot problem. **89g:70005**

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70E99 None of the above, but in this section

Beletskaya, N. V. *see* **Samsonov, V. A., 89f:70009**

Bolgrabskaya, I. A. (*with* Savchenko, A. Ya.) Investigation of some dynamic properties of systems with distributed parameters on the basis of a model for a system of connected absolutely rigid bodies. (Russian) **89f:70008**

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Barnyak, M. Ya. Investigation of the small oscillations of a spherical pendulum with a cavity filled with a viscous incompressible fluid. (Russian) **89h:76014**

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Dokova, Rossitza (*with* Chobanov, Ivan) Other dynamical "paradoxes". (Bulgarian. English and Russian summaries) **89e:70006**

Grigor′eva, O. V. (*with* Skimel′, V. N.) Investigation of the limit behavior of the solutions of a system of differential equations by the comparison method. (Russian) **89e:93123**

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Limarchenko, O. S. Application of direct methods to the investigation of applied problems of the nonlinear dynamics of bodies that are partially filled by a fluid. (Russian) **89h:76012**

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Tesoriere, Giovanni (*with* Lo Bosco, Dario) On the existence, uniqueness and estimation of the solution of equations of motion for a railway vehicle, according to Johnsson. (Italian) **89c:70059**

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70Fxx Dynamics of a system of particles, including celestial mechanics

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Thirring, W. E. ★ Lehrbuch der Mathematischen Physik. Band 1. (German) [Textbook of mathematical physics. Vol. 1] **89i:70001**

70F05 Two-body problem

Ambrosetti, Antonio (*with* Coti Zelati, Vittorio) Solutions périodiques sans collision pour une classe de potentiels de type keplerien. (English summary) [Noncollision periodic orbits for a class of Keplerian potentials] **89h:70004**

Amorim, A. E. A. (*with* Leal Ferreira, P.) Perihelium shifts in central potentials. **89j:70010**

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Ichtiaroglou, S. (*with* Voyatzis, G.) Integrable potentials with logarithmic integrals of motion. **89k:70019**

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Karaballi, A. A. On the ejection solutions in a central force field. (French summary) **89f:70011**

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Kuz′minykh, V. A. An integrable case of perturbed Kepler motion. (Russian) **89m:70013**

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Nožička, František Sur une métrique spéciale dans l'espace linéaire et les mouvements du Kepler. (Russian and Czech summaries) [A special metric in linear space, and Kepler motions] **89d:70007**

Pankratov, A. A. *see* **Barkin, Yu. V., (89g:70002)**

Proulx, R. J. (*with* McClain, W. D.) Series representations and rational approximations for Hansen coefficients. **89k:70020**

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Valtonen, M. J. The general three-body problem in astrophysics. **89i:70019**

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Wnuk, Edwin Tesseral harmonic perturbations for high order and degree harmonics. **89k:70051**

70F07 Three-body problem

Barkin, Yu. V. Periodic solutions of the first kind for the three-body problem, and the motion of Venus. (Russian) **89d:70009**

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Diacu, Florin Nicolae (*with* Pál, Árpád) Improbability of some special solutions in the n-body problem with generalized attraction law. **89f:70013**

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Luk′yanov, L. G. Stability of coplanar libration points in the restricted, photogravitational three-body problem. **89f:70014**

Markeev, A. P. (*with* Shcherbina, G. A.) On motions asymptotic to triangular points of libration of the restricted circular three-body problem. **89f:70015**

Markellos, V. V. *see* **Perdios, E.; et al., 89f:70016** *and* **89i:70020**

Moons, M. (*with* Delhaise, F.; Depaepe, E.) Elliptical Hill's problem (large and small impact parameters). **89m:70015**

Mukhametkalieva, R. K. *see* **Bekov, A. A., 89k:70022**

Pál, Árpád *see* **Diacu, Florin Nicolae, 89f:70013**

Papadakis, K. *see* **Perdios, E.; et al., 89f:70016**

Perdios, E. (*with* Markellos, V. V.) Stability and bifurcations of Sitnikov motions. **89i:70020**

— (*with* Papadakis, K.; Markellos, V. V.) The stability parameters of three-dimensional periodic three-body orbits. **89f:70016**

Ragos, O. (*with* Zagouras, C.) Periodic solutions about the "out of plane" equilibrium points in the photogravitational restricted three-body problem. **89k:70023**

Raman, Om Prakash (*with* Ishwar, Bhola) Existence of libration points in the generalised circular restricted three-body problem. **89m:70016**

Shcherbina, G. A. *see* **Markeev, A. P., 89f:70015**

Shkodrov, V. G. *see* **Dikova, S. D., 89e:70015**

Thái, V. N. The plane, unrestricted three-body problem. **89a:70013**

Zagouras, C. *see* **Ragos, O., 89k:70023**

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Barkin, Yu. V. (*with* Èrgasheva, M. È.) Periodic modes of motion of a satellite-gyrostat in a triangular point of libration in the circular restricted three-body problem. (Russian) (*see* **89g:70002**)

Bekov, A. A. Integrable cases of the Hamilton-Jacobi equation and the restricted, rectilinear three-body problem with variable mass. **89d:70017**

Bruhn, B. Transient chaos and perturbed long range interactions. **89a:70011**
Buck, B. (*with* Merchant, A. C.) Exact separation of a three-body problem in one dimension. **89m:81030**
Contopoulos, G. Short and long period orbits. **89m:70020**
Ėrgasheva, M. Ė. *see* **Barkin, Yu. V., (89g:70002)**
Jefferys, W. H. *see* **Vázquez, E. C.; et al., 89d:58077**
Khapaev, Mikhail Mikhaĭlovich ★ Асимптотические методы и устойчивость в теории нелинейных колебаний. (Russian) [Asymptotic methods and stability in the theory of nonlinear oscillations] **89g:34047**
Merchant, A. C. *see* **Buck, B., 89m:81030**
Message, P. J. Normal coordinates and asymptotic expansions in resonance cases in celestial mechanics. **89m:70021**
Moeckel, Richard Chaotic orbits in the three-body problem. **89c:58041**
Sivaramakrishnan, Anand *see* **Vázquez, E. C.; et al., 89d:58077**
Thorp, James S. *see* **Varghese, Matthew, 89e:70023**
Varghese, Matthew (*with* Thorp, James S.) An analysis of truncated fractal growths in the stability boundaries of three-node swing equations. **89e:70023**
Vázquez, E. C. (*with* Jefferys, W. H.; Sivaramakrishnan, Anand) Fractal distributions in conservative systems: direct observations of the stable manifold. **89d:58077**

70F10 *n*-body problem

Abad, Alberto J. (*with* Docobo, José A.) The application of hierarchical relative coordinates to the analysis of the movement of subsystems of many-body problems. **89g:70009**
Diacu, Florin Nicolae (*with* Pál, Árpád) Fundamental results in the theory of real singularities in the *n*-body problem. **89c:70015**
— A collision theorem in the nongravitational *N*-body problem. **89c:70016**
Docobo, José A. *see* **Abad, Alberto J., 89g:70009**
Duboshin, G. N. Deuxième cas spécial du problème restraint des plusieurs corps. [Second special case of the restricted *N*-body problem] **89m:70017**
Dvorak, R. *see* **Karch, M., (89j:76002)**
Elmabsout, Badaoui Sur l'existence de certaines configurations d'équilibre relatif dans le problème des *n* corps. (English summary) [On the existence of some configurations of relative equilibrium in an *n*-body problem] **89m:70018**
— Sur l'existence de certaines configurations d'équilibre relatif dans le problème des *n* corps. (English summary) [On the existence of certain configurations of relative equilibrium in the *n*-body problem] **89j:70014**
Henrard, J. *see* **Lemaître, A., (89j:76002)**
Karch, M. (*with* Dvorak, R.) New results on the possible chaotic motion of Enceladus. (*see* **89j:76002**)
Kholshevnikov, K. V. *see* **Sokolov, L. L., 89g:70010**
Lemaître, A. (*with* Henrard, J.) The 3/2 resonance. (*see* **89j:76002**)
Marciniak, Andrzej A variable order method for solving the planetary type *N*-body problem. **89c:70017**
Ollongren, Alexander On a particular restricted five-body problem: an analysis with computer algebra. **89j:70015**
Pál, Árpád *see* **Diacu, Florin Nicolae, 89c:70015**
Pârv, Bazil The use of Lie series to obtain the approximate solution of the *n*-body problem. **89f:70017**
Saari, Donald G. From rotations and inclinations to zero configurational velocity surfaces. II. The best possible configurational velocity surfaces. **89j:70016**
Sokolov, L. L. (*with* Kholshevnikov, K. V.) Exactness of the solution of the *N*-body problem in a domain of large energies. (Russian. English summary) **89g:70010**

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Hadjidemetriou, John D. Periodic orbits of the planetary type and their stability. **89m:70014**
Marciniak, Andrzej On interval calculations in the *N*-body problem. **89f:65053**
Meyer, K. R. (*with* Schmidt, Dieter S.) Bifurcations of relative equilibria in the 4- and 5-body problem. **89i:58106**
Schmidt, Dieter S. *see* **Meyer, K. R., 89i:58106**

70F15 Celestial mechanics

Carpino, M. *see* **Nobili, Anna M.; et al., (Not in MR)**
Chapsiadis, A. (*with* Michalodimitrakis, M.) Bounded motion in a two-body system consisting of a solid body and a material point. **89d:70010**
Chumak, O. V. *see* **Sagintaev, B. S., 89j:70018**
Contopoulos, G. Critical cases of 3-dimensional systems. **89m:70019**
— Short and long period orbits. **89m:70020**
Deprit, André (*with* Ferrer, Sebastián) Note on Cid's radial intermediary and the method of averaging. **89d:70011**
Ferrándiz Leal, José Manuel A general canonical transformation increasing the number of variables with application to the two-body problem. **89f:70018**
Ferrer, Sebastián *see* **Deprit, André, 89d:70011**
Henrard, J. (*with* Murigande, Charles) Colombo's top. **89c:70018**
Khentov, A. A. Stability of lunar rotation by Cassini's laws. **89c:70019**
Khorseva, L. Yu. Periodic rotational motions of a rigid body in the vicinity of a collinear libration point of the circular, restricted three-body problem. **89f:70019**
Mavraganis, A. (*with* Pangalos, C.) La périodicité et la symétrie du mouvement équatorial au problème magnétique-binaire. (English summary) [The periodicity and symmetry of equatorial motion in the magnetic-binary problem] **89j:70017**
Message, P. J. Normal coordinates and asymptotic expansions in resonance cases in celestial mechanics. **89m:70021**
Michalodimitrakis, M. *see* **Chapsiadis, A., 89d:70010**
Milani, Andrea (*with* Nobili, Anna M.) Instability of the 2 + 2 body problem. **89e:70016**
— *see also* **Nobili, Anna M.; et al., (Not in MR)**
Murigande, Charles *see* **Henrard, J., 89c:70018**
Neishtadt, A. I. Jumps of the adiabatic invariant on crossing the separatrix, and the origin of the Kirkwood gap 3 : 1. (Russian) **89a:70014**
Nobili, Anna M. (*with* Milani, Andrea; Carpino, M.) Fundamental frequencies and small divisors in the orbits of the outer planets. (Not in MR)
— *see also* **Milani, Andrea, 89e:70016**
Pangalos, C. *see* **Mavraganis, A., 89j:70017**
Sagintaev, B. S. (*with* Chumak, O. V.) Evolution of an ensemble of arbitrary orbits in gravitational systems in the presence of an irregular field. (Russian) **89j:70018**
Sato, Massae *see* **Yokoyama, Tadashi; et al., 89e:70017**
Szebehely, Victor Limits of predictability of gravitational systems. (*see* **89j:76002**)
Tsuchida, Masayoshi *see* **Yokoyama, Tadashi; et al., 89e:70017**
Van Flandern, Thomas *see* **Williams, Carol A.; et al., 89c:70020**
Williams, Carol A. (*with* Van Flandern, Thomas; Wright, Edward A.) First order planetary perturbations with elliptic functions. **89c:70020**
Wright, Edward A. *see* **Williams, Carol A.; et al., 89c:70020**
Yokoyama, Tadashi (*with* Sato, Massae; Tsuchida, Masayoshi) Some instabilities in the 3/1 and 2/1 resonances. **89e:70017**

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Celestial Mechanics and Space Research ★ Seminar of Celestial Mechanics and Space Research. **89c:70021**

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Abad, Alberto J. (*with* Docobo, José A.) The application of hierarchical relative coordinates to the analysis of the movement of subsystems of many-body problems. **89g:70009**
Ambrosetti, Antonio (*with* Coti Zelati, Vittorio) Oscillations non linéaires pour des problèmes de la mécanique céleste. (English summary) [Nonlinear oscillations for a class of problems arising in celestial mechanics] **89i:70036**
Barkin, Yu. V. Periodic solutions of the first kind for the three-body problem, and the motion of Venus. (Russian) **89d:70009**
Battin, Richard H. ★ An introduction to the mathematics and methods of astrodynamics. **89c:70001**
Brumberg, V. A. (*with* Kopeĭkin, S. M.) Relativistic equations of motion of the Earth's satellite in a geocentric frame of reference. (Russian. English summary) (Not in MR)
— *see also* **Soffel, Michael H., 89m:85001**
Cariñena, José F. (*with* Ibort, Luis A.; Lacomba, Ernesto A.) Time scaling as an infinitesimal canonical transformation. **89m:70031**
Coti Zelati, Vittorio *see* **Ambrosetti, Antonio, 89i:70036**
Docobo, José A. *see* **Abad, Alberto J., 89g:70009**
Duboshin, G. N. Deuxième cas spécial du problème restraint des plusieurs corps. [Second special case of the restricted *N*-body problem] **89m:70017**
(Dvorak, R.) *see* **Long term evolution of planetary systems, 89j:76002**
Elmabsout, Badaoui Sur l'existence de certaines configurations d'équilibre relatif dans le problème des *n* corps. (English summary) [On the existence of certain configurations of relative equilibrium in the *n*-body problem] **89j:70014**
Erzhanov, Zh. S. (*with* Kalybaev, A. A.) A condition of Betti type for mechanical systems with an energy conservation law. (Russian. Kazakh summary) **89j:58114**
(Ferraz-Mello, S.) *see* **Long term evolution of planetary systems, 89j:76002**
(Froeschlé, Claude) *see* **Long term evolution of planetary systems, 89j:76002**
Giorgilli, Antonio Rigorous results on the power expansions for the integrals of a Hamiltonian system near an elliptic equilibrium point. (French summary) **89k:58087**
Henrard, J. (*with* de Vleeschauwer, Anne) Sweeping through a second order resonance. **89m:58186**
— *see also* **Long term evolution of planetary systems, 89j:76002**
(von Humboldt, Alexander) *see* **Long term evolution of planetary systems, 89j:76002**
Ibort, Luis A. *see* **Cariñena, José F.; et al., 89m:70031**
Kalybaev, A. A. *see* **Erzhanov, Zh. S., 89j:58114**
Kopeĭkin, S. M. *see* **Brumberg, V. A., (Not in MR)**
Kozlov, V. V. Phenomena of nonintegrability in Hamiltonian systems. **89h:58061**
Lacomba, Ernesto A. Infinity manifolds for positive energy in celestial mechanics. **89f:58111**
— (*with* Simó, Carles) Topology of Jacobi levels with no zero velocity curves in the restricted three-body problem. (German summary) **89b:58188**
— (*with* Llibre, Jaume) Transversal ejection-collision orbits for the restricted problem and the Hill's problem with applications. **89g:70008**
— *see also* **Cariñena, José F.; et al., 89m:70031**
Llibre, Jaume *see* **Lacomba, Ernesto A., 89g:70008**
Pál, Árpád (*with* Ţarină, M.) Topological considerations on the averaging method with applications in celestial mechanics. **89d:34080**
(Przemieniecki, J. S.) *see* **Battin, Richard H., 89c:70001**
Saari, Donald G. From rotations and inclinations to zero configurational velocity surfaces. II. The best possible configurational velocity surfaces. **89j:70016**
(Schubart, J.) *see* **Long term evolution of planetary systems, 89j:76002**
Shcherbina, G. A. A numerical method for constructing Lyapunov-Poincaré asymptotic motions. (Russian) **89k:58105**
Simó, Carles *see* **Lacomba, Ernesto A., 89b:58188**
Soffel, Michael H. ★ Relativity in astrometry, celestial mechanics and geodesy. **89m:85001**
(Szebehely, Victor) *see* **Long term evolution of planetary systems, 89j:76002**
Ţarină, M. *see* **Pál, Árpád, 89d:34080**
de Vleeschauwer, Anne *see* **Henrard, J., 89m:58186**
Yuan, Xiao Ming Poincaré and celestial mechanics. (Chinese) **89j:01036**

Items listed otherwise than by author

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Celestial Mechanics ★ Long term evolution of planetary systems. **89j:76002**
Long term evolution of planetary systems ★ Long term evolution of planetary systems. **89j:76002**
Ramsau ★ Long term evolution of planetary systems. **89j:76002**

70F20 Holonomic systems

Borghero, Francesco Determining generalized forces compatible with given dynamical trajectories in a holonomic system. (Italian. English summary) **89b:70003**
Chernous′ko, F. L. Asymptotic methods in the dynamics of systems with elastic elements. (Russian) **89k:70024**
Čović, V. On the first integrals of rheonomic holonomic mechanical systems. **89c:70022**
Dysthe, Kristian (*with* Henyey, F. S.; Longuet-Higgins, M. S.; Schult, R. L.) The orbiting double pendulum: an analogue to interacting gravity waves. **89j:70019**
Henyey, F. S. *see* **Dysthe, Kristian; et al., 89j:70019**
Krasinskiĭ, A. Ya. (*with* Ronzhin, V. V.) On stabilization of steady motions of mechanical systems with cyclic coordinates. (Russian) **89k:70025**
Longuet-Higgins, M. S. *see* **Dysthe, Kristian; et al., 89j:70019**
Ronzhin, V. V. *see* **Krasinskiĭ, A. Ya., 89k:70025**
Schult, R. L. *see* **Dysthe, Kristian; et al., 89j:70019**

Items with secondary classifications in 70F20

Amirouche, F. M. L. (*with* Jia, T.) Pseudouptriangular decomposition method for constrained multibody systems using Kane's equations. **89i:70004**
— *see also* **Ider, S. K., 89m:70003**
Atanasov, V. A. (*with* Lilov, L. K.) Stabilizability of steady motions of systems with pseudocyclic coordinates. (Russian) **89k:70052**
Čović, V. (*with* Lukačević, M.) Jourdain's principle as a principle of least constraint. **89g:70012**
Ider, S. K. (*with* Amirouche, F. M. L.) Coordinate reduction in the dynamics of constrained multibody systems—a new approach. **89m:70003**
Jia, T. *see* **Amirouche, F. M. L., 89i:70004**
Jin, Fu Sheng Some equations of higher order in analytical mechanics. (Chinese. English summary) **89c:70039**
Lilov, L. K. *see* **Atanasov, V. A., 89k:70052**
Lukačević, M. *see* **Čović, V., 89g:70012**
Vujanović, B. A study of conservation laws of dynamical systems by means of the differential variational principles of Jourdain and Gauss. **89c:70035**

70F25 Nonholonomic systems

Diamandiev, Vasil An application of the Darboux method for a nonholonomic problem. (Bulgarian. English and Russian summaries) **89c:70023**
— Approximate solution of a differential equation in nonholonomic mechanics. (Bulgarian. English and Russian summaries) **89c:70024**
— Remarks on the Tsenov, Nielsen and generalized Lagrange equations for nonholonomic systems in the presence of linear constraints. (Russian. English summary) **89e:70018**
Fei, Xue Bo Appell's equations with undetermined multipliers. (Chinese. English summary) **89d:70012**
Ghori, Q. K. Equations of motion of nonlinear nonholonomic systems with variable masses. **89g:70011**
Lobas, L. G. ★ Неголономные модели колесных экипажей. (Russian) [Nonholonomic models of wheeled vehicles] **89d:70013**
— (*with* Lobas, Lyudm. G.) Possible types of trajectories of nonholonomic systems. (Russian) **89h:70005**
Lobas, Lyudm. G. *see* **Lobas, L. G., 89h:70005**
Mei, Feng Xiang *see* **Yuan, Shi Jie,** (Not in MR)
Nikiforov, V. M. Single-valued solutions of a problem of G. K. Suslov in a homogeneous gravitational field. (Russian) **89a:70015**
Papastavridis, J. G. On the nonlinear Appell's equations and the determination of generalized reaction forces. **89m:70022**
Sławianowski, J. J. Algorithms for reactions of nonholonomic constraints and servo-constraints. (Russian and Polish summaries) **89j:70020**
Vacca, Maria Teresa Stationary solutions of the equations of motion of nonholonomic systems. (Italian. English summary) **89m:70023**
Virga, Epifanio G. An observation on imperfect nonholonomic constraints. (Italian. English summary) **89k:70026**
Xue, Wen Xi Extensions of Appell's and Tzènoff's equations to general nonholonomic systems. **89k:70027**
Yuan, Shi Jie (*with* Mei, Feng Xiang) Appell equations in terms of quasi-velocities and quasi-accelerations. (Not in MR)
Zhao, Yue Yu An approximation method based on a new variational principle. (Chinese. English summary) **89k:70028**

Items with secondary classifications in 70F25

Ahmed, Naseer *see* **Ghori, Q. K., 89m:70033**
Amirouche, F. M. L. (*with* Jia, T.) Pseudouptriangular decomposition method for constrained multibody systems using Kane's equations. **89i:70004**
— *see also* **Ider, S. K., 89m:70003**
Desloge, Edward A. The Gibbs-Appell equations of motion. **89i:70022**
Duan, Cheng Yao (*with* Zhang, Jian) An integral variational principle in Riemann form for holonomic and nonholonomic dynamical systems. (Chinese. English summary) **89d:70018**
Espindola, Maria L. *see* **Espindola, Oslim; et al., 89c:70027**
Espindola, Oslim (*with* Espindola, Maria L.; Farias, J. Ronald; Teixeira, Nelson L.) Exact invariants for a general mechanical system. **89c:70027**
Farias, J. Ronald *see* **Espindola, Oslim; et al., 89c:70027**
Gershkovich, V. Ya. *see* **Vershik, A. M., 89f:58007**
Ghori, Q. K. (*with* Ahmed, Naseer) Applicability of Hamilton-Jacobi method to nonlinear nonholonomic systems. **89m:70033**
Gliklikh, Yu. E. Operators of integral type and differential inclusions on manifolds subject to noninvolutive distributions. (Russian) **89m:58012**
Ider, S. K. (*with* Amirouche, F. M. L.) Coordinate reduction in the dynamics of constrained multibody systems—a new approach. **89m:70003**
Jia, T. *see* **Amirouche, F. M. L., 89i:70004**
Jin, Fu Sheng Some equations of higher order in analytical mechanics. (Chinese. English summary) **89c:70039**
Kozlov, V. V. Invariant measures of the Euler-Poincaré equations on Lie algebras. **89m:58064**
Lobas, L. G. A problem of nonholonomic mechanics. (Russian) **89d:70002**
Mamirov, Zh. A. Stability in the case of the nonisolation of a singular point. (Russian) **89m:70042**
Moshchuk, N. K. Qualitative analysis of the motion of a rigid body of revolution on an absolutely rough plane. (Russian) **89m:70009**
Teixeira, Nelson L. *see* **Espindola, Oslim; et al., 89c:70027**
Vershik, A. M. (*with* Gershkovich, V. Ya.) Nonholonomic dynamical systems. Geometry of distributions and variational problems. (Russian) **89f:58007**
Zhang, Jian *see* **Duan, Cheng Yao, 89d:70018**

70F30 Impulsive motion

Items with secondary classifications in 70F30

Gajewski, Krzysztof (*with* Radziszewski, Bogusław) On the stability of impact systems. (Russian summary) **89c:70045**
Radziszewski, Bogusław *see* **Gajewski, Krzysztof, 89c:70045**

70F35 Collisions

Ivanov, A. P. Impacts in a system with certain unilateral couplings. **89m:70024**

Items with secondary classifications in 70F35

Foidl, Ch. (*with* Kasperkovitz, P.) Velocity dependent invariants for hard particles in one dimension. **89k:70029**
Hayakawa, Eijirou Regularization of vector fields by Easton type surgery. **89c:58117**
Kasperkovitz, P. *see* **Foidl, Ch., 89k:70029**
Mackie, A. G. Analysis of a collision problem. **89j:70006**

70F99 None of the above, but in this section

Dash, P. C. Lattice solitons and nonlinear diatomic models. **89i:70021**
Foidl, Ch. (*with* Kasperkovitz, P.) Velocity dependent invariants for hard particles in one dimension. **89k:70029**
Heinz, C. Analytische Mechanik polarer Systeme. (English and Russian summaries) [Analytical mechanics of polar systems] **89k:70030**
Kasperkovitz, P. *see* **Foidl, Ch., 89k:70029**
Lan, Hui Bin (*with* Wang, Ke Lin) Elliptic solution for two nonlinear interacting oscillators. **89j:70021**
Wang, Ke Lin *see* **Lan, Hui Bin, 89j:70021**

Items with secondary classifications in 70F99

Aguirregabiria, J. M. (*with* Etxebarria, J. R.) Electromagnetic angular momentum radiated by two-point charges. **89f:78015**
Bruschi, M. (*with* Ragnisco, O.) On new solvable many-body dynamical systems with velocity-dependent forces. **89m:58089**
Ding, E Jiang (*with* Hauge, E. H.) Some analytic results for a binary fluid mixture. **89m:82016**
Etxebarria, J. R. *see* **Aguirregabiria, J. M., 89f:78015**
Greenspan, Donald Mechanisms of capillarity via supercomputer simulation. **89f:76030**
Hauge, E. H. *see* **Ding, E Jiang, 89m:82016**
Landsberg, P. T. Why quantum mechanics? **89j:81020**
Moreau, J.-J. Bounded variation in time. **89k:28004**
Motreanu, D. (*with* Pavel, N. H.) Flow-invariance for second order differential equations on manifolds and orbital motions. (Italian summary) **89d:58111**
Pavel, N. H. *see* **Motreanu, D., 89d:58111**
Perroud, M. (*with* Saucier, A.) Thermodynamics of dissipative systems. **89k:80010**
Ragnisco, O. *see* **Bruschi, M., 89m:58089**
Ruijsenaars, S. N. M. Action-angle maps and scattering theory for some finite-dimensional integrable systems. I. The pure soliton case. **89b:58101**
Saucier, A. *see* **Perroud, M., 89k:80010**
Toda, Morikazu ★ Theory of nonlinear lattices. **89h:58082**
van Tonder, A. A note on first integrals, Lax representation, Painlevé analysis and Nambu mechanics. **89k:58133**

70Gxx General representations of dynamical systems [see also 58F05]

Items with secondary classifications in 70Gxx

Thirring, W. E. ★ Lehrbuch der Mathematischen Physik. Band 1. (German) [Textbook of mathematical physics. Vol. 1] **89i:70001**

70G05 Riemannian geometry, tensorial methods [see also 53A45, 53A50, 53B20]

Tulczyjew, Włodzimierz M. Frame independence of analytical mechanics. (Italian summary) **89j:70022**

Items with secondary classifications in 70G05

Bates, Larry (*with* Montgomery, R.) Closed geodesics on the space of stable two-monopoles. **89i:58023**
Bohm, Arno *see* **Boya, L. J.; et al., 89d:81018**
Boya, L. J. (*with* Kmiecik, M.; Bohm, Arno) Hydrogen atom in one dimension. **89d:81018**
Gibbons, Gary (*with* Ruback, Peter) The hidden symmetries of multicentre metrics. **89j:53060**

Kmiecik, M. *see* **Boya, L. J.; et al., 89d:81018**
Marmo, G. Nijenhuis operators in classical dynamics. **89g:58071**
— Nijenhuis operators in classical dynamics. (*see* **89d:81001**)
Montgomery, R. *see* **Bates, Larry, 89i:58023**
Ruback, Peter *see* **Gibbons, Gary, 89j:53060**

70G10 Generalized coordinates

Desloge, Edward A. The Gibbs-Appell equations of motion. **89i:70022**

Items with secondary classifications in 70G10

Fei, Xue Bo Appell's equations with undetermined multipliers. (Chinese. English summary) **89d:70012**

70G25 Configuration space

Iwai, Toshihiro A geometric setting for classical molecular dynamics. (French summary) **89h:70006**

Items with secondary classifications in 70G25

Borghero, Francesco Determining generalized forces compatible with given dynamical trajectories in a holonomic system. (Italian. English summary) **89b:70003**
Gliklikh, Yu. E. Operators of integral type and differential inclusions on manifolds subject to noninvolutive distributions. (Russian) **89m:58012**

70G30 State space

Items with secondary classifications in 70G30

Anandan, J. Geometric angles in quantum and classical physics. **89i:81040**

70G35 Phase space

Colegrave, R. K. (*with* Croxson, P.; Mannan, M. A.) Complex invariants for the time-dependent harmonic oscillator. **89m:70025**
Croxson, P. *see* **Colegrave, R. K.; et al., 89m:70025**
John, G. Reduced phase spaces of models of collective motion. **89k:70031**
Khvan, A. M. Canonical transformations in Nambu mechanics. (Russian) **89f:70020**
Mannan, M. A. *see* **Colegrave, R. K.; et al., 89m:70025**

Items with secondary classifications in 70G35

Benenti, S. Fibrés affines canoniques et mécanique newtonienne. [Canonical affine bundles and Newtonian mechanics] **89i:58029**
Bhaskara, K. H. (*with* Viswanath, K.) ★ Poisson algebras and Poisson manifolds. **89j:58026**
Cariñena, José F. Geometric theory of the time rescaling. **89c:70032**
— (*with* Ibort, Luis A.) Noncanonical groups of transformations, anomalies, and cohomology. **89e:58042**
Ibort, Luis A. *see* **Cariñena, José F., 89e:58042**
Iwai, Toshihiro A geometric setting for classical molecular dynamics. (French summary) **89h:70006**
Jaffé, Charles (*with* Watanabe, Masakatsu) Time-independent adiabatic switching: nonintegrable classical systems. **89k:70033**
Kharlamov, M. P. ★ Топологический анализ интегрируемых задач динамики твердого тела. (Russian) [Topological analysis of integrable problems of rigid body dynamics] **89i:58036**
Otto, Martin A reduction scheme for phase spaces with almost Kähler symmetry. Regularity results for momentum level sets. **89k:58104**
Ruggeri, G. J. Dirac bracket revisited. **89h:81078**
Solov′ev, M. A. On the geometry of classical mechanics with nonabelian gauge symmetry. (Russian. English summary) **89h:81123**
Viswanath, K. *see* **Bhaskara, K. H., 89j:58026**
Watanabe, Masakatsu *see* **Jaffé, Charles, 89k:70033**

70G50 Classical field theories (general)

Burgers, G. J. H. (*with* van Dam, H.) On classical action at a distance theories which contain a cutoff. **89c:70025**
Chiao, Raymond Y. *see* **Garrison, J. C., 89a:70016**
van Dam, H. *see* **Burgers, G. J. H., 89c:70025**
Ferraris, Marco (*with* Francaviglia, Mauro) Intrinsic ADM formalism for Lagrangian field theories in fibered manifolds. **89d:70014**
Francaviglia, Mauro *see* **Ferraris, Marco, 89d:70014**
Garrison, J. C. (*with* Chiao, Raymond Y.) Geometrical phases from global gauge invariance of nonlinear classical field theories. **89a:70016**
Güler, Y. Hamilton-Jacobi theory of continuous systems. (Italian summary) **89h:70007**
Hojman, S. (*with* Shepley, L. C.) Equivalent Lagrangians in classical field theory. **89b:70004**
Shepley, L. C. *see* **Hojman, S., 89b:70004**
Skinner, Ray (*with* Steinke, Kim; Wood, W. Robert) Poisson brackets of the super-Hamiltonian and the supermomenta. (French summary) **89c:70026**
Steinke, Kim *see* **Skinner, Ray; et al., 89c:70026**
Wood, W. Robert *see* **Skinner, Ray; et al., 89c:70026**

Items with secondary classifications in 70G50

Carmeli, M. Cawley's counterexample to Dirac's conjecture as a curved spacetime. **89c:83011**
Ferraris, Marco (*with* Francaviglia, Mauro) Applications of the Poincaré-Cartan form in higher order field theories. **89d:58033**
Francaviglia, Mauro *see* **Ferraris, Marco, 89d:58033**
Hermann, Robert Differential form methods in the theory of variational systems and Lagrangian field theories. **89m:58054**
Kastrup, H. A. Canonical formalisms—including Hamilton-Jacobi theories—for classical fields. **89e:58037**
Li, Zi Ping The symmetry transformation of the constrained system with high-order derivatives. **89b:58079**
Marsden, Jerrold E. The Hamiltonian formulation of classical field theory. **89g:58073**
Martin, Geoffrey Dynamical structures for k-vector fields. **89k:58096**
Mimura, Fumitake *see* **Nôno, Takayuki, 89f:58047**
Müller-Kirsten, H. J. W. (*with* Wiedemann, A.) The use of the chain rule in the presence of constraints. (Italian and Russian summaries) **89k:70035**
Nôno, Takayuki (*with* Mimura, Fumitake) A differential geometric foundation for invariant variational principle in continuum dynamics. (Turkish summary) **89f:58047**
Oevel, Walter Dirac constraints in field theory: lifts of Hamiltonian systems to the cotangent bundle. **89d:58043**
Shul′man, E. I. *see* **Zakharov, V. E., 89k:58137**
Villarroel, J. Stochasticity in Yang-Mills theory. **89h:81125**
Ward, R. S. Soliton solutions in an integrable chiral model in $2+1$ dimensions. **89h:81126**
Wiedemann, A. *see* **Müller-Kirsten, H. J. W., 89k:70035**
Zakharov, V. E. (*with* Shul′man, E. I.) On additional motion invariants of classical Hamiltonian wave systems. **89k:58137**
Zuckerman, Gregg J. Action principles and global geometry. (*see* **89m:81001**)

70G99 None of the above, but in this section

Celletti, Alessandra (*with* Giorgilli, Antonio) On the numerical optimization of KAM estimates by classical perturbation theory. **89j:70023**
Espindola, Maria L. *see* **Espindola, Oslim; et al., 89c:70027**
Espindola, Oslim (*with* Espindola, Maria L.; Farias, J. Ronald; Teixeira, Nelson L.) Exact invariants for a general mechanical system. **89c:70027**
Farias, J. Ronald *see* **Espindola, Oslim; et al., 89c:70027**
Giorgilli, Antonio *see* **Celletti, Alessandra, 89j:70023**
Teixeira, Nelson L. *see* **Espindola, Oslim; et al., 89c:70027**

Items with secondary classifications in 70G99

Aaberge, T. Dynamics of electrically charged extended bodies: classical and quantum systems. **89m:78013**
Andreev, V. A. Supersymmetric generalized Toda lattices. (Russian) (*see* **89d:81001**)
Chisholm, J. S. R. Complex Clifford algebra formulation of Hamiltonian theory. **89j:58028**
Costa, Antonio F. (*with* González-Gascón, Francisco; González-López, A.) On codimension one submersions of Euclidean spaces. **89h:58093**
Duarte, L. G. S. (*with* Duarte, S. E. S.; Moreira, I. C.) One-dimensional equations with the maximum number of symmetry generators. **89c:58114**
Duarte, S. E. S. *see* **Duarte, L. G. S.; et al., 89c:58114**
Euler, N. *see* **Steeb, W.-H., 89j:58049**
González-Gascón, Francisco *see* **Costa, Antonio F.; et al., 89h:58093**
González-López, A. *see* **Costa, Antonio F.; et al., 89h:58093**
Gozzi, E. Hidden BRS invariance in classical mechanics. **89k:81041**
Henneaux, M. (*with* Teitelboim, Claudio) BRST cohomology in classical mechanics. **89h:17022**
Iosifescu, Mircea (*with* Scutaru, H.) Second-degree kinematical constraints associated with dynamical symmetries. **89m:17011**
Kowalski, Krzysztof Hilbert space description of classical dynamical systems. I. **89d:58056**
Moreira, I. C. *see* **Duarte, L. G. S.; et al., 89c:58114**
Scutaru, H. *see* **Iosifescu, Mircea, 89m:17011**
Steeb, W.-H. (*with* Euler, N.) A note on Nambu mechanics and the Painlevé test. **89j:58049**
Teitelboim, Claudio *see* **Henneaux, M., 89h:17022**
van Tonder, A. A note on first integrals, Lax representation, Painlevé analysis and Nambu mechanics. **89k:58133**
Vujičić, V. A. On the absolute integral in an n-dimensional configuration space. **89b:53037**

70Hxx Hamiltonian and Lagrangian mechanics [see also 58F05]

Items with secondary classifications in 70Hxx

Thirring, W. E. ★ Lehrbuch der Mathematischen Physik. Band 1. (German) [Textbook of mathematical physics. Vol. 1] **89i:70001**

70H05 Hamilton's equations

Abe, Kanji *see* **Itoh, Toshiaki, 89j:70025**
Bakaĭ, A. S. Evolutionary stability and adiabatic invariants. (Russian) **89k:70032**
Barkin, Yu. V. (*with* Pankratov, A. A.) Periodic solutions of Hamiltonian systems in certain degenerate cases. **89f:70021**
Berry, M. V. (*with* Hannay, J. H.) Classical nonadiabatic angles. **89c:70028**
Bhattacharjee, A. (*with* Sen, Tanaji) Geometric angles in cyclic evolutions of a classical system. **89m:70026**
Butkovskiĭ, A. G. Dynamic systems with control, and an optical-mechanical analogy. **89m:70027**
Byalyĭ, M. L. First integrals that are polynomial in the momenta for a mechanical system on the two-dimensional torus. (Russian) **89c:70029**
Eckhardt, Bruno Integrable four vortex motion. **89m:70028**
Feng, Kang *see* **Ge, Zhong, 89m:70029**
Ge, Zhong (*with* Feng, Kang) On the approximation of linear Hamiltonian systems. **89m:70029**
González-Gascón, Francisco (*with* González-López, A.) On the possibility of obtaining any first integral of a Hamiltonian system via the Poisson theorem. **89e:70019**

González-López, A. *see* **González-Gascón, Francisco, 89e:70019**

Grammaticos, Basile (*with* Papageorgiou, V. G.) Integrable bouncing-ball models. **89f:70022**

— *see also* **Yoshida, Haruo; et al., 89d:70016**

Gzył, H. Hamiltonian systems and semigroups. (Spanish) **89j:70024**

Hannay, J. H. *see* **Berry, M. V., 89c:70028**

Hojman, Roberto (*with* Zanelli, Jorge) Constrained Hamiltonian formalism for unconstrained classical mechanics. **89e:70020**

Itoh, Toshiaki (*with* Abe, Kanji) Hamiltonian-conserving discrete canonical equations based on variational difference quotients. **89j:70025**

Ivanova, E. V. Integrals of motion and transition amplitudes for a quadratic system with a nondiagonalizable Hamiltonian. (Russian) (*see* **89d:81002**)

Jaffé, Charles (*with* Watanabe, Masakatsu) Time-independent adiabatic switching: nonintegrable classical systems. **89k:70033**

Markeev, A. P. Asymptotic trajectories and stability of periodic motions of an autonomous Hamiltonian system with two degrees of freedom. (Russian) **89k:70034**

Pankratov, A. A. *see* **Barkin, Yu. V., 89f:70021**

Papageorgiou, V. G. *see* **Grammaticos, Basile, 89f:70022**

Pedrosa, I. A. Canonical transformations and exact invariants for dissipative systems. **89f:70023**

Ramani, Alfred *see* **Yoshida, Haruo; et al., 89d:70016**

Roekaerts, D. (*with* Yoshida, Haruo) Nonintegrability of homogeneous two-dimensional Hamiltonians with velocity-dependent potential. **89m:70030**

Sáenz, A. W. Canonical map approach to channeling stability in crystals. II. **89c:70030**

Sari, Tewfik Systèmes hamiltoniens à paramètres lentement variables. (English summary) [Hamiltonian systems with slowly varying parameters] **89f:70024**

Sen, Tanaji *see* **Bhattacharjee, A., 89m:70026**

Teng, Tian Qi Normal transformations and the solution of singular perturbation equations. (Chinese. English summary) **89j:70026**

Watanabe, Masakatsu *see* **Jaffé, Charles, 89k:70033**

Yoshida, Haruo A criterion for the nonexistence of an additional integral in Hamiltonian systems with a homogeneous potential. **89d:70015**

— (*with* Ramani, Alfred; Grammaticos, Basile) Nonintegrability of the fourth-order truncated Toda Hamiltonian. **89d:70016**

— *see also* **Roekaerts, D., 89m:70030**

Zanelli, Jorge *see* **Hojman, Roberto, 89e:70020**

Items with secondary classifications in 70H05

Adams, M. R. (*with* Harnad, J.; Previato, E.) Isospectral Hamiltonian flows in finite and infinite dimensions. I. Generalized Moser systems and moment maps into loop algebras. **89k:58112**

Adler, Mark (*with* van Moerbeke, Pierre) The intersection of four quadrics in $\mathbf{P}^6$, abelian surfaces and their moduli. **89f:14033**

— (*with* van Moerbeke, Pierre) The Kowalewski and Hénon-Heiles motions as Manakov geodesic flows on SO(4)—a two-dimensional family of Lax pairs. **89b:58085**

de Aguiar, M. A. M. (*with* Malta, C. P.; Baranger, M.; Davies, K. T. R.) Bifurcations of periodic trajectories in nonintegrable Hamiltonian systems with two degrees of freedom: numerical and analytical results. **89b:58175**

Aldaya, V. (*with* de Azcárraga, J. A.) Group manifold approach to analytical mechanics and constraints. **89e:58039**

Aneva, B. L. (*with* Boshilov, P.; Stoyanov, D. T.) On the classical mechanics of a nonrelativistic superparticle. **89c:81060**

Arnol′d, V. I. ★ Geometrical methods in the theory of ordinary differential equations. **89h:58049**

de Azcárraga, J. A. *see* **Aldaya, V., 89e:58039**

Baranger, M. *see* **de Aguiar, M. A. M.; et al., 89b:58175**

Bates, Larry (*with* Montgomery, R.) Closed geodesics on the space of stable two-monopoles. **89i:58023**

Bender, C. M. (*with* Dunne, Gerald V.) Exact operator solutions to Euler Hamiltonians. **89f:81030**

Benettin, Giancarlo (*with* Fröhlich, Jürg; Giorgilli, Antonio) A Nekhoroshev-type theorem for Hamiltonian systems with infinitely many degrees of freedom. **89m:58059**

Bertotti, Maria Letizia Localization of closed orbits of nonlinear Hamiltonian systems with 1, −2 resonance near an equilibrium. (Italian summary) **89d:70021**

Bhaskara, K. H. (*with* Viswanath, K.) ★ Poisson algebras and Poisson manifolds. **89j:58026**

Bleher, Siegfried (*with* Grebogi, Celso; Ott, Edward; Brown, Reggie) Fractal boundaries for exit in Hamiltonian dynamics. **89g:58127**

Bloch, Anthony M. Lax-type flows on Grassmann manifolds. **89b:58065**

— An infinite-dimensional Hamiltonian system on projective Hilbert space. **89e:58041**

Bogoyavlenskiĭ, O. I. Some constructions of integrable dynamical systems. **89g:58087**

Boshilov, P. *see* **Aneva, B. L.; et al., 89c:81060**

Brown, Reggie (*with* Ott, Edward; Grebogi, Celso) The goodness of ergodic adiabatic invariants. **89e:58076**

— *see also* **Bleher, Siegfried; et al., 89g:58127**

Bruschi, M. (*with* Ragnisco, O.) On new solvable many-body dynamical systems with velocity-dependent forces. **89m:58089**

— (*with* Ragnisco, O.) Recursion operator and Bäcklund transformations for the Ruijsenaars-Toda lattice. **89j:58041**

Capel, H. W. *see* **van der Weele, J. P.; et al., 89b:58082** *and* **89i:58109**

Cariñena, José F. (*with* Ibort, Luis A.; Lacomba, Ernesto A.) Time scaling as an infinitesimal canonical transformation. **89m:70031**

— (*with* Ibort, Luis A.) Noncanonical groups of transformations, anomalies, and cohomology. **89e:58042**

— (*with* López Lacasta, Carlos; Rañada, Manuel F.) Geometric Lagrangian approach to first-order systems and applications. **89e:58043**

— (*with* López Lacasta, Carlos; Román-Roy, Narciso) Origin of the Lagrangian constraints and their relation with the Hamiltonian formulation. **89e:58044**

Celletti, Alessandra (*with* Falcolini, Corrado; Porzio, Anna) Rigorous KAM stability statements for nonautonomous one-dimensional Hamiltonian systems. **89k:58084**

Churchill, R. C. *see* **Rod, David L., 89m:58075**

Coti Zelati, Vittorio Dynamical systems with effective-like potentials. **89c:58034**

Dana, I. (*with* Murray, N. W.; Percival, I. C.) Resonances and diffusion in periodic Hamiltonian maps. **89k:58177**

Davies, K. T. R. *see* **de Aguiar, M. A. M.; et al., 89b:58175**

Delyon, François (*with* Foulon, Patrick) Adiabatic theory, Liapunov exponents, and rotation number for quadratic Hamiltonians. **89f:58054**

De Oliveira, Luimar C. *see* **Negri, Luiz J.; et al., 89a:70017**

(Dumas, H. S.) *see* **Lochak, P., 89k:58254**

Dunne, Gerald V. *see* **Bender, C. M., 89f:81030**

Faddeev, L. D. (*with* Jackiw, R.) Hamiltonian reduction of unconstrained and constrained systems. **89i:81051**

Falcolini, Corrado *see* **Celletti, Alessandra; et al., 89k:58084**

Feng, Kang (*with* Qin, Meng Zhao) The symplectic methods for the computation of Hamiltonian equations. **89e:70003**

Foulon, Patrick *see* **Delyon, François, 89f:58054**

Fröhlich, Jürg *see* **Benettin, Giancarlo; et al., 89m:58059**

(Gaponov-Grekhov, A. V.) *see* **Schuster, Heinz Georg, 89h:58130**

Gavrilov, L. Note on the generalized Hénon-Heiles system. **89m:58154**

Gerasimov, A. L. Phase convection and nonequilibrium fluctuations in nearly-integrable systems. **89m:82028**

Gillilan, Richard E. *see* **Waterland, Robert L.; et al., 89i:58099**

Gingold, Harry In general, the less degeneracy the less transition. A principle for time-dependent Hamiltonian systems in quantum mechanics. **89g:81114**

Giorgilli, Antonio Rigorous results on the power expansions for the integrals of a Hamiltonian system near an elliptic equilibrium point. (French summary) **89k:58087**

— *see also* **Benettin, Giancarlo; et al., 89m:58059**

Girardi, Mario (*with* Matzeu, Michele) Some stability results on periodic Hamiltonian trajectories. (Italian summary) **89j:70030**

Gitman, D. M. (*with* Tyutin, I. V.) The structure of gauge theories in the Lagrangian and Hamiltonian formalisms. **89f:81098**

Grammaticos, Basile *see* **Yoshida, Haruo; et al., 89d:58060**

Grebogi, Celso *see* **Brown, Reggie; et al., 89e:58076** *and* **Bleher, Siegfried; et al., 89g:58127**

van Groesen, E. W. C. Analytical mini-max methods for Hamiltonian brake orbits of prescribed energy. **89m:58062**

Györgyi, Géza (*with* Tishby, Naftali) Path integrals in Hamiltonian systems: breakup of the last Kolmogorov-Arnol′d-Moser torus due to random forces. **89j:58031**

Hagedorn, Peter ★ Nonlinear oscillations. **89h:70008**

Harnad, J. *see* **Adams, M. R.; et al., 89k:58112**

Henneaux, M. (*with* Teitelboim, Claudio; Zanelli, Jorge) Quantum mechanics for multivalued Hamiltonians. **89g:81024**

Hietarinta, Jarmo *see* **Yoshida, Haruo; et al., 89d:58060**

Ibort, Luis A. *see* **Cariñena, José F., 89e:58042** *and* **89m:70031**

(Izraĭlev, F. M.) *see* **Schuster, Heinz Georg, 89h:58130**

Jackiw, R. *see* **Faddeev, L. D., 89i:81051**

Jaen, X. (*with* Jáuregui, R.; Llosa, J.; Molina, A.) Hamiltonian formalism for path-dependent Lagrangians. **89c:58037**

Jáuregui, R. *see* **Jaen, X.; et al., 89c:58037**

Joy, M. P. (*with* Sabir, M.) Integrability of two-dimensional homogeneous potentials. **89g:58067**

Kholshevnikova, O. K. An estimate for a Hamiltonian that is asymptotically normalized in a neighborhood of an equilibrium. (Russian. English summary) **89a:58042**

Kirschbaum, D. The algebra of the classical Hamiltonian mechanics as the closure of two finite-dimensional algebras. **89i:58038**

Klapka, L. The problem of differentiable Poisson bracket of coordinates in mechanics. **89h:58060**

Koltyzhenkov, V. M. Irregular variational equations along quasiperiodic solutions of Hamiltonian systems. **89i:58039**

Komkov, V. The critical points theory and the variational principles in continuous mechanics of solids. (Russian and Polish summaries) **89k:49031**

Kozlov, V. V. Phenomena of nonintegrability in Hamiltonian systems. **89h:58061**

— On the theory of perturbations of Hamiltonian systems with noncompact invariant surfaces. (Russian) **89i:58051**

— (*with* Treshchëv, D. V.) The integrability of Hamiltonian systems with configuration space a torus. **89f:58069**

ten Kroode, A. P. E. Geometrical description of the Toda lattice. **89h:58062**

Krupková, Olga Lepagean 2-forms in higher order Hamiltonian mechanics. II. Inverse problem. **89m:58065**

Lacomba, Ernesto A. *see* **Cariñena, José F.; et al., 89m:70031**

Lazutkin, V. F. Splitting of separatrices for a standard family of area-preserving transformations. (Russian) **89h:58146**

Lesfari, A. Abelian surfaces and Kowalewski's top. **89k:58125**

Lim, Chjan On singular Hamiltonians: the existence of quasi-periodic solutions and nonlinear stability. **89k:58094**

Llosa, J. *see* **Jaen, X.; et al., 89c:58037**

Lochak, P. (*with* Meunier, C.) ★ Multiphase averaging for classical systems. **89k:58254**

López Lacasta, Carlos *see* **Cariñena, José F.; et al., 89e:58043** *and* **89e:58044**

Lucey, C. A. (*with* Newman, E. T.) On the construction of Hamiltonians. **89m:58066**

(Malkin, M. I.) *see* **Schuster, Heinz Georg, 89h:58130**

Malta, C. P. *see* **de Aguiar, M. A. M.; et al., 89b:58175**

Man′ko, V. I. (*with* Trifonov, D. A.) Nonuniqueness of the variational formulation of classical equations of motion and quantization rules. (*see* **89g:81001**)

Markeev, A. P. (*with* Shcherbina, G. A.) On motions asymptotic to triangular points of libration of the restricted circular three-body problem. **89f:70015**

Marmi, Stefano Perturbation theory of holomorphic discrete dynamical systems. **89c:58112**

Marmo, G. (*with* Saletan, E. J.; Schmid, Rudolf; Simoni, A.) Bi-Hamiltonian dynamical systems and the quadratic-Hamiltonian theorem. (Italian and Russian summaries) **89h:58064**

Martens, Craig C. *see* **Waterland, Robert L.; et al., 89i:58099**

Matzeu, Michele *see* **Girardi, Mario, 89j:70030**

Meunier, C. *see* **Lochak, P., 89k:58254**

Mimura, Fumitake (*with* Nôno, Takayuki) Conservation laws in continuum dynamics. **89m:70036**

Mladenov, Ivailo M. (*with* Tsanov, Vasil V.) Geometric quantisation of the MIC-Kepler problem. **89k:58109**

van Moerbeke, Pierre *see* **Adler, Mark, 89b:58085** *and* **89f:14033**

Molina, A. *see* **Jaen, X.; et al., 89c:58037**

Monin, A. S. *see* **Zakharov, V. E.; et al., 89i:76034**

Montaldi, J. (*with* Roberts, R. M.; Stewart, Ian) Periodic solutions near equilibria of symmetric Hamiltonian systems. **89f:58060**

Montgomery, R. *see* **Bates, Larry, 89i:58023**

Moshchuk, N. K. Qualitative analysis of the motion of a rigid body of revolution on an absolutely rough plane. (Russian) **89m:70009**

Murray, N. W. *see* **Dana, I.; et al., 89k:58177**

Negri, Luiz J. (*with* De Oliveira, Luimar C.; Teixeira, Julio M.) Canonoid transformations and constants of motion. **89a:70017**

Neĭshtadt, A. I. On the change in the adiabatic invariant on crossing a separatrix in systems with two degrees of freedom. **89m:58070**

Newman, E. T. *see* **Lucey, C. A., 89m:58066**

Niwa, Toshio The ergodic problem for nearly integrable Hamiltonian systems. (Japanese) **89i:58066**

Nôno, Takayuki *see* **Mimura, Fumitake, 89m:70036**

Oevel, Walter Dirac constraints in field theory: lifts of Hamiltonian systems to the cotangent bundle. **89d:58043**

Oh, Yong-Geun A stability criterion for Hamiltonian systems with symmetry. **89k:58101**

Oshemkov, A. A. Topology of isoenergetic surfaces, and bifurcation diagrams of integrable cases of the dynamics of a rigid body on SO(4). (Russian) **89i:58042**

Ott, Edward *see* **Brown, Reggie; et al., 89e:58076** *and* **Bleher, Siegfried; et al., 89g:58127**

Percival, I. C. (*with* Vivaldi, Franco) Critical dynamics and trees. **89m:70053**

— *see also* **Dana, I.; et al., 89k:58177**

Piterbarg, L. I. *see* **Zakharov, V. E.; et al., 89i:76034**

Porzio, Anna *see* **Celletti, Alessandra; et al., 89k:58084**

Post, T. *see* **van der Weele, J. P.; et al., 89b:58082** *and* **89i:58109**

Previato, E. *see* **Adams, M. R.; et al., 89k:58112**

Qin, Meng Zhao *see* **Feng, Kang, 89e:70003**

(Rabinovich, M. I.) *see* **Schuster, Heinz Georg, 89h:58130**

Ragnisco, O. *see* **Bruschi, M., 89j:58041** *and* **89m:58089**

Ramani, Alfred *see* **Yoshida, Haruo; et al., 89d:58060**

Rañada, Manuel F. *see* **Cariñena, José F.; et al., 89e:58043**

(Reĭman, A. M.) *see* **Schuster, Heinz Georg, 89h:58130**

Reinhardt, William P. *see* **Waterland, Robert L.; et al., 89i:58099**

Roberts, R. M. *see* **Montaldi, J.; et al., 89f:58060**

Rod, David L. On an example of Ziglin in Hamiltonian dynamics. **89m:58074**

— (*with* Churchill, R. C.) On the applicability of Ziglin's nonintegrability theorem. **89m:58075**

Román-Roy, Narciso *see* **Cariñena, José F.; et al., 89e:58044**

Rosensteel, G. Hamiltonian dynamics of Riemann ellipsoids. **89h:58067**

Rothe, Franz The energy-period function and perturbations of Hamiltonian systems in the plane. **89g:58077**

Rustamov, N. A. Adiabatic invariants of canonical systems. (Russian. English and Azerbaijani summaries) **89k:34102**

Sabir, M. *see* **Joy, M. P., 89g:58067**

Saletan, E. J. *see* **Marmo, G.; et al., 89h:58064**

Schmid, Rudolf *see* **Marmo, G.; et al., 89h:58064**

Schuster, Heinz Georg ★ Детерминированный хаос. (Russian) [Deterministic chaos] **89h:58130**

Shcherbina, G. A. A numerical method for constructing Lyapunov-Poincaré asymptotic motions. (Russian) **89k:58105**

— *see also* **Markeev, A. P., 89f:70015**

Simoni, A. *see* **Marmo, G.; et al., 89h:58064**

Solov'ev, M. A. On the geometry of classical mechanics with nonabelian gauge symmetry. (Russian. English summary) **89h:81123**

(Stadler, Wolfram) *see* **Hagedorn, Peter, 89h:70008**

Stewart, Ian *see* **Montaldi, J.; et al., 89f:58060**

Story, Troy L. Thermodynamics on one-forms. **89c:80004**

Stoyanov, D. T. *see* **Aneva, B. L.; et al., 89c:81060**

(Szucs, Joseph) *see* **Arnol'd, V. I., 89h:58049**

Szulkin, Andrzej An index theory and existence of multiple brake orbits for star-shaped Hamiltonian systems. **89m:58174**

Takabayashi, Kunio Extraction of a collective submanifold for the Hénon-Heiles system. **89d:81127**

Teitelboim, Claudio *see* **Henneaux, M.; et al., 89g:81024**

Teixeira, Julio M. *see* **Negri, Luiz J.; et al., 89a:70017**

Tishby, Naftali *see* **Györgyi, Géza, 89j:58031**

Treshchëv, D. V. *see* **Kozlov, V. V., 89f:58069**

Trifonov, D. A. *see* **Man'ko, V. I., (89g:81001)**

Tsanov, Vasil V. *see* **Mladenov, Ivailo M., 89k:58109**

Tulczyjew, Włodzimierz M. Frame independence of analytical mechanics. (Italian summary) **89j:70022**

Tyutin, I. V. *see* **Gitman, D. M., 89f:81098**

Valkering, T. P. *see* **van der Weele, J. P.; et al., 89b:58082** *and* **89i:58109**

Verheest, Frank Integrability of restricted multiple three-wave interactions. II. Coupling constants with ratios 1 and 2. **89g:58101**

Veselov, A. P. Time change in integrable systems. (Russian) **89f:58063**

Viswanath, K. *see* **Bhaskara, K. H., 89j:58026**

Vivaldi, Franco *see* **Percival, I. C., 89m:70053**

Waterland, Robert L. (*with* Yuan, Jian Min; Martens, Craig C.; Gillilan, Richard E.; Reinhardt, William P.) Classical-quantum correspondence in the presence of global chaos. **89i:58099**

van der Weele, J. P. (*with* Capel, H. W.; Valkering, T. P.; Post, T.) The squeeze effect in nonintegrable Hamiltonian systems. **89b:58082**

— (*with* Valkering, T. P.; Capel, H. W.; Post, T.) The birth of twin Poincaré-Birkhoff chains near 1:3 resonance. **89i:58109**

Yoshida, Haruo (*with* Ramani, Alfred; Grammaticos, Basile; Hietarinta, Jarmo) On the nonintegrability of some generalized Toda lattices. **89d:58060**

Yuan, Jian Min *see* **Waterland, Robert L.; et al., 89i:58099**

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Zanelli, Jorge *see* **Henneaux, M.; et al., 89g:81024**

Zehnder, E. Remarks on periodic solutions on hypersurfaces. **89b:58083**

70H10 Liouville's theorem

Szczepański, Janusz The Liouville equation in infinitely-dimensional separable Hilbert space. (Russian summary) **89c:70031**

Items with secondary classifications in 70H10

Bao, Ke Da (*with* Liu, Fu Sui) The Liouville theorem involving quantum effect. **89d:81131**

Honda, Tsuyoshi *see* **Tsukamoto, Tatsuo; et al., 89d:82164**

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Liu, Fu Sui *see* **Bao, Ke Da, 89d:81131**

Matsuzaki, Hisao *see* **Tsukamoto, Tatsuo; et al., 89d:82164**

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70H15 Canonical transformations

Cabo, A. On equivalence transformations generated by pure first-class constraints. **89i:70023**

Cariñena, José F. Geometric theory of the time rescaling. **89c:70032**

— (*with* Ibort, Luis A.; Lacomba, Ernesto A.) Time scaling as an infinitesimal canonical transformation. **89m:70031**

— (*with* Rañada, Manuel F.) Canonoid transformations from a geometric perspective. **89i:70024**

De Oliveira, Luimar C. *see* **Negri, Luiz J.; et al., 89a:70017**

Ibort, Luis A. *see* **Cariñena, José F.; et al., 89m:70031**

Kaushal, R. S. Construction of exact invariants for one- and two-dimensional classical systems. **89e:70021**

Lacomba, Ernesto A. *see* **Cariñena, José F.; et al., 89m:70031**

Müller-Kirsten, H. J. W. (*with* Wiedemann, A.) The use of the chain rule in the presence of constraints. (Italian and Russian summaries) **89k:70035**

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Rañada, Manuel F. *see* **Cariñena, José F., 89i:70024**

Teixeira, Julio M. *see* **Negri, Luiz J.; et al., 89a:70017**

Wiedemann, A. *see* **Müller-Kirsten, H. J. W., 89k:70035**

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Bazzani, A. Normal forms for symplectic maps of $\mathbf{R}^{2n}$. **89k:58205**

— *see also* **Turchetti, G., 89d:58046**

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Ekeland, Ivar (*with* Hofer, Helmut) Capacités symplectiques. (English summary) [Symplectic capacities] **89i:53025**

Fehér, L. Gy. Conformal O(3, 2) symmetry of the two-dimensional inverse square potential. **89e:58107**

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Ferrándiz Leal, José Manuel A general canonical transformation increasing the number of variables with application to the two-body problem. **89f:70018**

Hofer, Helmut *see* **Ekeland, Ivar, 89i:53025**

Il'natanov, N. A. An asymptotic method for the transformation of a canonical system of difference equations. (Russian) **89g:39002**

Khvan, A. M. Canonical transformations in Nambu mechanics. (Russian) **89f:70020**

Kibler, Maurice (*with* Winternitz, P.) Lie algebras under constraints and nonbijective canonical transformations. **89i:58037**

Kirschbaum, D. The algebra of the classical Hamiltonian mechanics as the closure of two finite-dimensional algebras. **89i:58038**

Leacock, Robert A. The physical properties of linear and action-angle coordinates in classical and quantum mechanics. **89a:81029**

Mannan, M. A. *see* **Colegrave, R. K., 89i:70026**

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Marmo, G. (*with* Saletan, E. J.; Schmid, Rudolf; Simoni, A.) Bi-Hamiltonian dynamical systems and the quadratic-Hamiltonian theorem. (Italian and Russian summaries) **89h:58064**

Misawa, Tetsuya (*with* Yasue, Kunio) Canonical stochastic dynamical systems. **89b:81053**

Pedrosa, I. A. Canonical transformations and exact invariants for dissipative systems. **89f:70023**

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— *see also* **Prigogine, Ilya, 89m:81052**

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— *see also* **Petrosky, Tomio Y., 89k:58130**

Qin, Meng Zhao *see* **Feng, Kang, 89e:70003**

Saletan, E. J. *see* **Marmo, G.; et al., 89h:58064**

Schmid, Rudolf *see* **Marmo, G.; et al., 89h:58064**

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Turchetti, G. (*with* Bazzani, A.) Normal forms for symplectic maps. **89d:58046**

Winternitz, P. *see* **Kibler, Maurice, 89i:58037**

Yasue, Kunio *see* **Misawa, Tetsuya, 89b:81053**

70H20 Hamilton-Jacobi equations

Ahmed, Naseer *see* **Ghori, Q. K., 89m:70033**

Bekov, A. A. Integrable cases of the Hamilton-Jacobi equations and dynamic systems reducible to canonical form. **89c:70033**

— Integrable cases of the Hamilton-Jacobi equation and the restricted, rectilinear three-body problem with variable mass. **89d:70017**

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Gallavotti, Giovanni Some problems on the Hamilton-Jacobi equation. **89e:58048**

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Kyprianidis, A. Hamilton-Jacobi theory and quantum mechanics. I. The free particle case. **89j:81052**

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Marsden, Jerrold E. *see* **Zhong, Ge, 89h:58070**

Marshall, Ian (*with* Wojciechowski, Stefan) When is a Hamiltonian system separable? **89e:58052**

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Nassar, Antônio B. Invariant, noninvariant operators and quantum fluctuations in tunneling. **89d:81035**

Pham, F. Remarque sur une notion de déploiement introduite par K. Saito. [Remark on a notion of unfolding introduced by K. Saito] **89b:58034**

Shtelen′, V. M. *see* **Stognii, V. I., 89f:78005**

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Strauss, Alvin M. *see* **Vujanović, B., 89e:70022**

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Wojciechowski, Stefan *see* **Marshall, Ian, 89e:58052**

Zhong, Ge (*with* Marsden, Jerrold E.) Lie-Poisson Hamilton-Jacobi theory and Lie-Poisson integrators. **89h:58070**

70H25 Hamilton's principle

Items with secondary classifications in 70H25

Boyadzhiev, Todor *see* **Deneva, Sonya, 89e:73024**

Carini, Giovanni On the variational principles in classical continuum mechanics. (Italian. English summary) **89h:73004**

Deneva, Sonya (*with* Boyadzhiev, Todor) The equations of motion of a flexible thread in special cases. (Russian. English summary) **89e:73024**

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Sławianowski, J. J. Algorithms for reactions of nonholonomic constraints and servo-constraints. (Russian and Polish summaries) **89j:70020**

Zhang, Jian *see* **Duan, Cheng Yao, 89d:70018**

70H30 Other variational principles

Bailey, C. D. Comment on: "Rayleigh's principle via least action" [J. Sound Vibration **113** (1987), no. 2, 395–399; MR 88c:70016] and other papers by Dr. John G. Papastavridis. **89c:70034**

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Lukačević, M. *see* **Čović, V., 89g:70012**

(Papastavridis, J. G.) *see* **Bailey, C. D., 89c:70034**

Vacca, Jacopa Harmonic balance and classical variational methods. (Italian. English summary) **89i:70025**

Vujanović, B. A study of conservation laws of dynamical systems by means of the differential variational principles of Jourdain and Gauss. **89c:70035**

Zhang, Jian *see* **Duan, Cheng Yao, 89d:70018**

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Balian, Roger (*with* Vénéroni, Marcel) Static and dynamic variational principles for expectation values of observables. **89m:49082**

Caviglia, Giacomo Composite variational principles and the determination of conservation laws. **89c:49033**

Kastrup, H. A. Canonical formalisms—including Hamilton-Jacobi theories—for classical fields. **89e:58037**

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Vénéroni, Marcel *see* **Balian, Roger, 89m:49082**

Yasue, Kunio *see* **Misawa, Tetsuya, 89b:81053**

Zhao, Yue Yu An approximation method based on a new variational principle. (Chinese. English summary) **89k:70028**

70H35 Lagrange's equation of motion

Cerveró, José M. (*with* Villarroel, J.) Contact symmetries and integrable nonlinear dynamical systems. **89d:70019**

Chobanov, Georgi Iv. (*with* Chobanov, Ivan) An apparent dynamic paradox. I. Lagrangian mechanics? (Bulgarian. English and Russian summaries) **89g:70013**

— (*with* Chobanov, Ivan) An apparent dynamic paradox. II. Paradoxes? (Bulgarian. English and Russian summaries) **89g:70014**

Chobanov, Ivan *see* **Chobanov, Georgi Iv., 89g:70013** *and* **89g:70014**

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Greco, Carlo On forced oscillations of Lagrangian systems. (Italian summary) **89k:70036**

Jones, S. E. (*with* Vujanović, B.) On the inverse Lagrangian problem. **89m:70034**

Lyakhovich, S. L. *see* **Gitman, D. M.; et al., (89d:81002)**

Noskov, M. D. *see* **Gitman, D. M.; et al., (89d:81002)**

Potts, Renfrey B. Discrete Lagrange equations. **89a:70018**

Tyutin, I. V. *see* **Gitman, D. M.; et al., (89d:81002)**

Villarroel, J. *see* **Cerveró, José M., 89d:70019**

Vujanović, B. *see* **Jones, S. E., 89m:70034**

Items with secondary classifications in 70H35

Bolotin, S. V. On the Hill determinant of a periodic orbit. (Russian) **89i:58030**

Butkovskii, A. G. Dynamic systems with control, and an optical-mechanical analogy. **89m:70027**

Cantrijn, F. On the geometry of degenerate Lagrangians. **89k:58082**

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Das, Ashok *see* **Okubo, Susumu, 89g:58075**

Diamandiev, Vasil Remarks on the Tsenov, Nielsen and generalized Lagrange equations for nonholonomic systems in the presence of linear constraints. (Russian. English summary) **89e:70018**

Dubnov, V. L. *see* **Voropaeva, G. A.; et al., (89b:58206)**

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Ibort, Luis A. *see* **Cariñena, José F., 89e:58042**

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Jáuregui, R. *see* **Jaen, X.; et al., 89c:58037**

Klapka, L. The problem of differentiable Poisson bracket of coordinates in mechanics. **89h:58060**

Klein, Joseph Almost symplectic structures in dynamics. **89b:58077**

Komkov, V. The critical points theory and the variational principles in continuous mechanics of solids. (Russian and Polish summaries) **89k:49031**

Krupková, Olga A note on the Helmholtz conditions. **89e:58050**

Lemos, Nivaldo A. *see* **Galvão, Carlos A. P., 89f:81075**

de León, Manuel (*with* Rodrigues, Paulo R.) Second-order differential equations and nonconservative Lagrangian mechanics. **89b:58078**

— (*with* Rodrigues, Paulo R.) Higher order almost tangent geometry and nonautonomous Lagrangian dynamics. **89k:58072**

Li, Zi Ping The symmetry transformation of the constrained system with high-order derivatives. **89b:58079**

Llosa, J. *see* **Jaen, X.; et al., 89c:58037**

Longuet-Higgins, M. S. *see* **Dysthe, Kristian; et al., 89j:70019**

López Lacasta, Carlos *see* **Cariñena, José F.; et al., 89e:58043**

Man′ko, V. I. (*with* Trifonov, D. A.) Nonuniqueness of the variational formulation of classical equations of motion and quantization rules. (*see* **89g:81001**)

Marmo, G. (*with* Morandi, G.; Simoni, A.; Sudarshan, E. C. G.) Quasi-invariance and central extensions. **89g:58072**

Maslov, V. P. *see* **Voropaeva, G. A.; et al., (89b:58206)**

Mimura, Fumitake (*with* Nôno, Takayuki) Conservation laws in continuum dynamics. **89m:70036**

Molina, A. *see* **Jaen, X.; et al., 89c:58037**

Morandi, G. *see* **Marmo, G.; et al., 89g:58072**

Nôno, Takayuki *see* **Mimura, Fumitake, 89m:70036**

Okubo, Susumu (*with* Das, Ashok) The integrability condition for dynamical systems. **89g:58075**

Prince, G. E. *see* **Crampin, M., 89h:70001**

Rañada, Manuel F. *see* **Cariñena, José F.; et al., 89e:58043** *and* **89k:58083**
Rodrigues, Paulo R. *see* **de León, Manuel, 89b:58078** *and* **89k:58072**
Sarlet, W. Geometrical structures related to second-order equations. **89c:58044**
— (*with* Cantrijn, F.; Crampin, M.) Pseudosymmetries, Noether's theorem and the adjoint equation. **89b:58187**
— Contribution to the study of symmetries, first integrals and the inverse problem of the calculus of variations in theoretical mechanics. **89i:58044**
Schult, R. L. *see* **Dysthe, Kristian; et al., 89j:70019**
Simoni, A. *see* **Marmo, G.; et al., 89g:58072**
Sudarshan, E. C. G. *see* **Marmo, G.; et al., 89g:58072**
Trifonov, D. A. *see* **Man'ko, V. I.,** (**89g:81001**)
Tyutin, I. V. *see* **Gitman, D. M., 89f:81098**
Voropaeva, G. A. (*with* Dubnov, V. L.; Maslov, V. P.) Asymptotic Lagrangians of a manifold and the complex WKB method. (Russian) (*see* **89b:58206**)

70H40 Relativistic dynamics

Afanas'ev, G. N. (*with* Asanov, R. A.) One exact solution of the relativistic two-body problem in the Poincaré approach. **89c:70036**
— *see also* **Asanov, R. A.,** (**89d:81002**)
Asanov, R. A. (*with* Afanas'ev, G. N.) An exact solution of the relativistic two-body problem in a Poincaré approach. (Russian) (*see* **89d:81002**)
— *see also* **Afanas'ev, G. N., 89c:70036**
De Bièvre, S. Möller operators in classical relativistic two-particle scattering. **89a:70019**
Gaĭda, R. P. (*with* Klyuchkovs'kiĭ, Yu. B.; Tretyak, V. I.) Three-dimensional Lagrangian approach to the classical relativistic dynamics of directly interacting particles. **89c:70037**
Klyuchkovs'kiĭ, Yu. B. *see* **Gaĭda, R. P.; et al., 89c:70037**
Lim, Paul H. Tensor formulation of Hamilton's equations. **89k:70037**
Revenko, I. V. Equations of relativistic mechanics which are invariant with respect to the Poincaré group. (Russian) **89c:70038**
Tretyak, V. I. *see* **Gaĭda, R. P.; et al., 89c:70037**
Wright, F. J. On velocity-dependent force fields in which all orbits are planar. **89m:70035**

Items with secondary classifications in 70H40

Aguirregabiria, J. M. (*with* Etxebarria, J. R.) Electromagnetic angular momentum radiated by two-point charges. **89f:78015**
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van Dam, H. *see* **Burgers, G. J. H., 89c:70025**
Etxebarria, J. R. *see* **Aguirregabiria, J. M., 89f:78015**
Fehér, L. Gy. Conformal O(3, 2) symmetry of the two-dimensional inverse square potential. **89e:58107**
Lusanna, Luca Multitemporal Newtonian mechanics and its quantization. **89c:81064**
Pustyl'nikov, L. D. A new mechanism for particle acceleration and a relativistic analogue of the Fermi-Ulam model. **89k:58262**
Ruijgrok, Th. W. *see* **Arodź, H., 89d:81119**
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Stogniĭ, V. I. (*with* Shtelen', V. M.) Application of the method of differential forms to the investigation of the relativistic Hamilton-Jacobi equation. (Russian) **89f:78005**
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70H99 None of the above, but in this section

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Colegrave, R. K. (*with* Mannan, M. A.) Invariants for the time-dependent harmonic oscillator. **89i:70026**
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Mannan, M. A. *see* **Colegrave, R. K., 89i:70026**
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Mimura, Fumitake (*with* Nôno, Takayuki) Conservation laws in continuum dynamics. **89m:70036**
Nôno, Takayuki *see* **Mimura, Fumitake, 89m:70036**

Items with secondary classifications in 70H99

Batlle, C. (*with* Gomis, J.; Pons, J. M.; Román-Roy, Narciso) On the Legendre transformation for singular Lagrangians and related topics. **89f:58051**
— (*with* Gomis, J.; Pons, J. M.; Román-Roy, Narciso) Lagrangian and Hamiltonian constraints for second-order singular Lagrangians. **89h:58052**
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— (*with* López Lacasta, Carlos) The time-evolution operator for singular Lagrangians. **89d:58037**
— (*with* López Lacasta, Carlos; Román-Roy, Narciso) Origin of the Lagrangian constraints and their relation with the Hamiltonian formulation. **89e:58044**
Celletti, Alessandra (*with* Giorgilli, Antonio) On the numerical optimization of KAM estimates by classical perturbation theory. **89j:70023**
Giorgilli, Antonio *see* **Celletti, Alessandra, 89j:70023**
Gomis, J. *see* **Batlle, C.; et al., 89f:58051** *and* **89h:58052**
Heinz, C. Analytische Mechanik polarer Systeme. (English and Russian summaries) [Analytical mechanics of polar systems] **89k:70030**
Ichtiaroglou, S. *see* **Bozis, G., 89a:58039**
Janeczko, Stanisław Deformations for singular Lagrangian submanifolds. **89m:58024**
Klein, Joseph Almost symplectic structures in dynamics. **89b:58077**
Krupka, Demeter Geometry of Lagrangean structures. I. **89j:58017a**
— Geometry of Lagrangean structures. II. **89j:58017b**
— Geometry of Lagrangean structures. III. **89j:58017c**
de León, Manuel (*with* Rodrigues, Paulo R.) Almost tangent geometry and higher order mechanical systems. **89e:58051**
López Lacasta, Carlos *see* **Cariñena, José F., 89d:58037; 89e:58044** *and* **89i:58031**
Mathieu, Pierre Hamiltonian structure of graded and super evolution equations. **89k:58098**
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Papaghiuc, N. *see* **Oproiu, V., 89m:53125**
Pons, J. M. New relations between Hamiltonian and Lagrangian constraints. **89h:58053**
— *see also* **Batlle, C.; et al., 89f:58051** *and* **89h:58052**
Rodrigues, Paulo R. *see* **de León, Manuel, 89e:58051**
Román-Roy, Narciso Dynamics of constrained systems. **89h:58066**
— *see also* **Cariñena, José F.; et al., 89e:58044; Batlle, C.; et al., 89f:58051; 89h:58052** *and* **Cariñena, José F.; et al., 89i:58031**
Rudykh, G. A. (*with* Sinitsyn, A. V.) Expansion and convergence of the solution of the generalized Liouville equation in an orthonormalized system of functions. (Russian) **89b:35160**
Ruggeri, G. J. Dirac bracket revisited. **89h:81078**
Sinitsyn, A. V. *see* **Rudykh, G. A., 89b:35160**
Soroka, V. A. *see* **Volkov, D. V.; et al.,** (**89d:81001**)
Tkach, V. I. *see* **Volkov, D. V.; et al.,** (**89d:81001**)
Verheest, Frank Proof of integrability for five-wave interactions in a case with unequal coupling constants. **89h:58084**
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Yoshida, Takeshi A simple derivation of the conserved symmetric tensor for the two-dimensional isotropic harmonic oscillator. **89k:70021**

70Jxx Linear vibration theory

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Leipholz, H. H. E. ★ Stability theory. **89b:70001**

70J05 Finite degree of freedom systems

Bomash, A. Ya. (*with* Nagaev, R. F.) The structure of the characteristic equation of a linear mechanical system of chain type. (Russian. English summary) **89j:70027**
Cohen, Harley *see* **Wilms, E. V., 89m:70037**
Czyż, Jarosław A. Error bounds for eigenvalues of unconstrained structures. **89c:70040**
Kelly, S. Graham Development of normal mode theory for multi-degree-of-freedom systems using an energy inner product. **89b:70005**
Nagaev, R. F. *see* **Bomash, A. Ya., 89j:70027**
Veselić, Krešimir On linear vibrational systems with one-dimensional damping. **89k:70039**
Wilms, E. V. (*with* Cohen, Harley) A 3-N degree of freedom system with two natural frequencies. **89m:70037**

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Chung, Sangwoo *see* **Padovan, Joe; et al., 89h:34003**
Guo, Y. H. *see* **Padovan, Joe; et al., 89h:34003**
Lallement, Gerard *see* **Zhang, Qiang, 89j:70028**
Padovan, Joe (*with* Chung, Sangwoo; Guo, Y. H.) Asymptotic steady state behavior of fractionally damped systems. **89h:34003**
Zhang, Qiang (*with* Lallement, Gerard) Estimation of the generalized damping matrix from identified complex eigensolutions. **89j:70028**

70J10 Normal modes of vibrations

Chen, De Cheng *see* **Yu, Nian Cai; et al., 89d:70020**
Yu, Nian Cai (*with* Chen, De Cheng; Zheng, Wan Gan) Necessary and sufficient conditions for the decoupling of a pencil of complex mode matrices in a complete space. (Chinese. English summary) **89d:70020**
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Bomash, A. Ya. (*with* Nagaev, R. F.) The structure of the characteristic equation of a linear mechanical system of chain type. (Russian. English summary) **89j:70027**
Chêng, Sui Shêng Optimal fundamental frequencies of the loaded vibrating string. **89j:34030**
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Kelly, S. Graham Development of normal mode theory for multi-degree-of-freedom systems using an energy inner product. **89b:70005**
Montaldi, J. (*with* Roberts, Mark; Stewart, Ian) Nonlinear normal modes of symmetric Hamiltonian systems. **89m:58069**
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Roberts, Mark *see* **Montaldi, J.; et al., 89m:58069**
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Stewart, Ian *see* **Montaldi, J.; et al., 89m:58069**
Ueda, Sei The inverse problem for the string or rod clamped at both sides. **89i:73052**

Wilms, E. V. (*with* Cohen, Harley) A 3-N degree of freedom system with two natural frequencies. **89m:70037**
Zimoch, Zdzislaw An efficient method for determining eigenvalues in vibratory systems. **89e:65082**

70J15 Conservative systems

Items with secondary classifications in 70J15

Kelly, S. Graham Development of normal mode theory for multi-degree-of-freedom systems using an energy inner product. **89b:70005**

70J20 Nonconservative systems

Lallement, Gerard *see* **Zhang, Qiang, 89j:70028**
Strauss, Alvin M. *see* **Vujanović, B., 89e:70022**
Vujanović, B. (*with* Strauss, Alvin M.) Application of the Hamilton-Jacobi method to linear nonconservative vibration theory. **89e:70022**
Wang, T. K. *see* **Xiong, Yue, 89f:70027**
Xiong, Yue (*with* Wang, T. K.) Vibration and stability of a nonconservative two-degree-of-freedom system. **89f:70027**
Zevin, Aleksandr Aronovich On a theory of linear nonconservative systems. (Russian) **89k:70040**
Zhang, Qiang (*with* Lallement, Gerard) Estimation of the generalized damping matrix from identified complex eigensolutions. **89j:70028**

70J25 Stability

Temchenko, M. E. A method for determining the distribution of the roots of polynomials with complex coefficients with respect to the real axis. (Russian) **89g:70015**

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Barr, A. D. S. *see* **Miyasar, A. M., 89i:70027**
Bomash, A. Ya. (*with* Nagaev, R. F.) The structure of the characteristic equation of a linear mechanical system of chain type. (Russian. English summary) **89j:70027**
Miyasar, A. M. (*with* Barr, A. D. S.) The linear oscillator under parametric excitation with fluctuating frequency. **89i:70027**
Nagaev, R. F. *see* **Bomash, A. Ya., 89j:70027**
Shaginyan, S. G. A problem in stability theory. (Russian. Armenian summary) **89g:34065**
Zevin, Aleksandr Aronovich On a theory of linear nonconservative systems. (Russian) **89k:70040**

70J30 Free motions, parametric resonance

Barr, A. D. S. *see* **Miyasar, A. M., 89i:70027**
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70J99 None of the above, but in this section

Pierre, Christophe Comments on Rayleigh's quotient and perturbation theory for the eigenvalue problem. **89m:70038**

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Leung, A. Y. T. Inverse iteration for the quadratic eigenvalue problem. **89f:65041**
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70Kxx Nonlinear motions [see also 34Cxx, 58Fxx]

Hagedorn, Peter ★ Nonlinear oscillations. **89h:70008**
(Stadler, Wolfram) *see* **Hagedorn, Peter, 89h:70008**

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Butenin, N. V. (*with* Neĭmark, Yu. I.; Fufaev, N. A.) ★ Введение в теорию нелинейных колебаний. (Russian) [Introduction to the theory of nonlinear oscillations] **89c:34001**
Fufaev, N. A. *see* **Butenin, N. V.; et al., 89c:34001**
Hayashi, Chihiro Summary report of our studies on nonlinear oscillations. (Russian summary) (*see* **89g:00006**)
Leipholz, H. H. E. ★ Stability theory. **89b:70001**
Neĭmark, Yu. I. *see* **Butenin, N. V.; et al., 89c:34001**
Thirring, W. E. ★ Lehrbuch der Mathematischen Physik. Band 1. (German) [Textbook of mathematical physics. Vol. 1] **89i:70001**

70K05 Phase plane analysis

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Antman, Stuart S. A zero-dimensional shock. **89i:34027**
Batalova, Z. S. (*with* Belyakova, G. V.) Some bifurcations of embedded structures of the equation of motion of a pendulum with an oscillating axis. (Russian) **89h:70010**
Belyakova, G. V. *see* **Batalova, Z. S., 89h:70010**
Gu, K. *see* **Tongue, B. H., 89j:58074**
Hernández, E. S. (*with* Jezek, D. M.) Determination of basins of attraction for SU(2) dissipative models. **89g:58121**
Jezek, D. M. *see* **Hernández, E. S., 89g:58121**
Khdeir, Ahmed A. *see* **Nayfeh, Ali Hasan, 89i:70033**
Moon, F. ★ Chaotic vibrations. **89h:58127**
Nayfeh, Ali Hasan (*with* Khdeir, Ahmed A.) Rolling of ships in large-amplitude waves. **89i:70033**
Sethna, P. R. *see* **Shaw, S. W., 89m:58156**
Shaw, S. W. (*with* Sethna, P. R.) On the effects of asymmetries on a system near a codimension two point. **89m:58156**
Storti, Duane Bifurcations which destroy the out-of-phase mode in a pair of linearly coupled relaxation oscillators. **89a:58086**
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70K10 Limit cycles

Awrejcewicz, J. An analytical method for detecting Hopf bifurcation solutions in nonstationary nonlinear systems. **89m:70039**
Bogacz, R. (*with* Irretier, H.; Sikora, Jan) On limit cycles of two degrees of freedom system with dry friction. **89a:70020**
Han, Mao An The problem of limit cycles of nonlinear equations. (Chinese. English summary) **89m:70040**
Inoue, Kenji Perturbed motion of a simple pendulum. **89k:70041**
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Martynyuk, A. A. (*with* Nikitina, N. V.) Investigation of self-induced oscillations by the second method of Lyapunov. (Russian) **89c:70041**
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Schmidt, Günter Global nonlinear vibrations and onset of chaos. **89h:70009**
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Items with secondary classifications in 70K10

Huang, Qi Ming *see* **Li, Ji Bin, 89d:58100**
Khdeir, Ahmed A. *see* **Nayfeh, Ali Hasan, 89i:70033**
Kunick, A. *see* **Steeb, W.-H., 89h:58132**
Levi, Mark Nonchaotic behavior in the Josephson junction. **89m:81209**
Li, Ji Bin (*with* Huang, Qi Ming) Bifurcations of limit cycles forming compound eyes in the cubic system. **89d:58100**
Markeev, A. P. Asymptotic trajectories and stability of periodic motions of an autonomous Hamiltonian system with two degrees of freedom. (Russian) **89k:70034**
Medvedev, Vladislav Sergeevich (*with* Roshchin, N. V.) Some sufficient conditions for the birth of a limit cycle from a closed trajectory of a conservative system. (Russian) **89j:34044**
Nayfeh, Ali Hasan (*with* Khdeir, Ahmed A.) Rolling of ships in large-amplitude waves. **89i:70033**
Roshchin, N. V. *see* **Medvedev, Vladislav Sergeevich, 89j:34044**
Saint Vincent, Michael Entrainment of a limit-cycle oscillator with shear by large amplitude forcing. **89j:34052**
Steeb, W.-H. (*with* Kunick, A.) Chaos in limit cycle systems with external periodic excitations. **89h:58132**
Villari, Gabriele (*with* Zhang, Zhi Fen) Periodic solutions of a switching dynamical system in the plane. **89c:34040**
Wang, Hong Li Perturbation solutions of strongly nonlinear oscillatory systems. (Chinese. English summary) **89i:34085**
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70K15 Lyapunov theorems

Bertotti, Maria Letizia Localization of closed orbits of nonlinear Hamiltonian systems with 1, −2 resonance near an equilibrium. (Italian summary) **89d:70021**
Shul′gin, A. M. (*with* Zamorin, S. G.) On the stability of motion of mechanical systems with differential constraints. (Russian) **89c:70042**
Zamorin, S. G. *see* **Shul′gin, A. M., 89c:70042**

Items with secondary classifications in 70K15

Alidema, R. I. Global stability of connected pendula. **89c:70043**
Banshchikov, A. V. Stability of vertical permanent rotations in the Roze problem. (Russian) **89h:70002**
Caldeira-Saraiva, F. The boundedness of solutions of a Liénard equation arising in the theory of ship rolling. **89k:70043**
Cesar, Mauro O. (*with* Zampieri, Gaetano) On Liapunov stability for $\ddot{x} + xf(x) = 0, \ddot{y} + yw(x) = 0$. **89j:34067**
Furta, S. D. Instability of the equilibrium states of nonnatural conservative systems. (Russian) **89f:70030**
Karimzhanov, A. *see* **Martynyuk, A. A., 89c:70047**
Krapivnyĭ, Yu. N. (*with* Martynyuk, A. A.) A method for the decomposition of large-scale systems in the study of stability of motion. **89k:34077**
Martynyuk, A. A. (*with* Nikitina, N. V.) Investigation of self-induced oscillations by the second method of Lyapunov. (Russian) **89c:70041**
— (*with* Karimzhanov, A.) Limit equations and the stability of unsteady motions. (Russian) **89c:70047**
— *see also* **Krapivnyĭ, Yu. N., 89k:34077**
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Sobolev, V. A. Asymptotic expansions of the integral manifolds and Lyapunov functions of singularly perturbed systems. (Russian) **89g:34064**
Zampieri, Gaetano *see* **Cesar, Mauro O., 89j:34067**

70K20 Stability

Alidema, R. I. Global stability of connected pendula. **89c:70043**
Awrejcewicz, J. Determination of the limits of the unstable zones of the unstationary nonlinear mechanical systems. **89c:70044**
Barone Netto, Ângelo (*with* Cesar, Mauro O.) Nonconservative positional systems—stability. **89j:70029**
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Belyakova, G. V. *see* **Batalova, Z. S., 89m:70041**
Bulatović, R. (*with* Kažić, M.) On the inversion of the Lagrange-Dirichlet theorem. **89f:70028**
Caldeira-Saraiva, F. The boundedness of solutions of a Liénard equation arising in the theory of ship rolling. **89k:70043**
Cesar, Mauro O. *see* **Barone Netto, Ângelo, 89j:70029**
Filanovsky, I. M. *see* **Qiu, Shui Sheng, 89c:70049**
Filonenko, L. A. *see* **Zevin, Aleksandr Aronovich, 89m:70043**
Furta, S. D. On the asymptotic solutions of the equations of motion of mechanical systems. **89f:70029**
— Instability of the equilibrium states of nonnatural conservative systems. (Russian) **89f:70030**
— The instability of equilibrium of a gyroscopic system with two degrees of freedom. (Russian) **89f:70031**
Gajewski, Krzysztof (*with* Radziszewski, Bogusław) On the stability of impact systems. (Russian summary) **89c:70045**
Girardi, Mario (*with* Matzeu, Michele) Some stability results on periodic Hamiltonian trajectories. (Italian summary) **89j:70030**
Karimzhanov, A. *see* **Martynyuk, A. A., 89c:70047**
Kažić, M. *see* **Bulatović, R., 89f:70028**
Kerzyuk, V. I. *see* **Samoĭlenko, A. M.; et al., 89c:70050**
Kozlov, V. V. Asymptotic motions and the inversion of the Lagrange-Dirichlet theorem. **89c:70046**
Kurakin, L. G. (*with* Yudovich, V. I.) Semi-invariant form of equilibrium stability criteria in critical cases. **89b:70006**
Mamirov, Zh. A. Stability in the case of the nonisolation of a singular point. (Russian) **89m:70042**
Martynyuk, A. A. (*with* Karimzhanov, A.) Limit equations and the stability of unsteady motions. (Russian) **89c:70047**
Matzeu, Michele *see* **Girardi, Mario, 89j:70030**
Momot, I. P. *see* **Samoĭlenko, A. M.; et al., 89c:70050**
Pagani, Enrico (*with* Tecchiolli, G.; Zerbini, S.) On the problem of stability for higher-order derivative Lagrangian systems. **89c:70048**
Qiu, Shui Sheng (*with* Filanovsky, I. M.) On verification of stability of periodic oscillations in nonlinear systems. **89c:70049**
Radziszewski, Bogusław *see* **Gajewski, Krzysztof, 89c:70045**
Samoĭlenko, A. M. (*with* Kerzyuk, V. I.; Momot, I. P.) Oscillations of weakly nonlinear systems with n degrees of freedom and with an essential gyroscopic constraint. (Russian) **89c:70050**
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Steindl, A. (*with* Troger, H.) Bifurcations of the equilibrium of a spherical double pendulum at a multiple eigenvalue. **89d:70022**
Tecchiolli, G. *see* **Pagani, Enrico; et al., 89c:70048**
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Yudovich, V. I. *see* **Kurakin, L. G., 89b:70006**
Zerbini, S. *see* **Pagani, Enrico; et al., 89c:70048**
Zevin, Aleksandr Aronovich (*with* Filonenko, L. A.) Periodic oscillations of a pendulum whose point of suspension undergoes horizontal vibrations. **89m:70043**
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Atanasov, V. A. (*with* Lilov, L. K.) Stabilizability of steady motions of systems with pseudocyclic coordinates. (Russian) **89k:70052**
Bajaj, A. K. *see* **Heiman, M. S.; et al., 89g:70016**
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Beletskaya, N. V. *see* **Samsonov, V. A., 89f:70009**
Bertotti, Maria Letizia Localization of closed orbits of nonlinear Hamiltonian systems with $1,-2$ resonance near an equilibrium. (Italian summary) **89d:70021**
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Chambers, Ll. G. Note on the stability of motion in a circle under a central force. (Not in MR)
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Dawes, Robert L. *see* **Kowalski, Jacek M.; et al., 89j:70038**
Erzhanov, Zh. S. (*with* Kalybaev, A. A.) A condition of Betti type for mechanical systems with an energy conservation law. (Russian. Kazakh summary) **89j:58114**
Gross, Gunther *see* **Kowalski, Jacek M.; et al., 89j:70038**
Hadjidemetriou, John D. Periodic orbits of the planetary type and their stability. **89m:70014**
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Hinga, S. *see* **Peleg, K., 89k:70044**
Ignat′ev, A. O. Stability of motion with respect to some of the variables under constantly acting perturbations. (Russian) **89i:34068**
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Jin, J.-D. (*with* Matsuzaki, Y.) Bifurcations in a two-degree-of-freedom elastic system with follower forces. **89g:70017**
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Khapaev, Mikhail Mikhaĭlovich ★ Асимптотические методы и устойчивость в теории нелинейных колебаний. (Russian) [Asymptotic methods and stability in the theory of nonlinear oscillations] **89g:34047**
Kholopova, V. V. *see* **Puchka, G. N., 89i:70016**
Kolesov, A. Yu. Stability of relaxation auto-oscillations in systems with diffusion. (Russian) **89g:35100**
Konyaev, Yu. A. (*with* Martynenko, Yu. G.) On the stability of the stationary rotations of a symmetric rigid body in an alternating magnetic field. **89m:70008**
Koshlyakov, V. N. Equations of motion of a heavy rigid body in Rodrigues-Hamilton parameters. **89d:70005**
Kowalski, Jacek M. (*with* Ansari, Ali; Prueitt, Paul S.; Dawes, Robert L.; Gross, Gunther) On synchronization and phase locking in strongly coupled systems of planar rotators. **89j:70038**
Kozorez, V. V. *see* **Verbitskaya, L. V.; et al., 89i:70017**
Krasinskiĭ, A. Ya. (*with* Ronzhin, V. V.) On stabilization of steady motions of mechanical systems with cyclic coordinates. (Russian) **89k:70025**
Lilov, L. K. *see* **Atanasov, V. A., 89k:70052**
Lim, Chjan On singular Hamiltonians: the existence of quasi-periodic solutions and nonlinear stability. **89k:58094**
Lokshin, B. Ya. (*with* Privalov, V. A.; Samsonov, V. A.) Qualitative analysis of the motion of a rigid body in a resistant medium. (Russian) **89j:73057**
Lykova, O. B. *see* **Baris, Ya. S., 89m:34055**
Malashenko, S. V. *see* **Ishlinskiĭ, A. Yu.; et al., 89k:70006**
Markeev, A. P. Asymptotic trajectories and stability of periodic motions of an autonomous Hamiltonian system with two degrees of freedom. (Russian) **89k:70034**
Markellos, V. V. *see* **Perdios, E.; et al., 89f:70016** *and* **89i:70020**
Martynenko, Yu. G. *see* **Konyaev, Yu. A., 89m:70008**
Matsuzaki, Y. *see* **Jin, J.-D., 89g:70017**
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Mukhametkalieva, R. K. *see* **Bekov, A. A., 89k:70022**
Nayfeh, Ali Hasan Harmonic excitation of internally resonant two-degree-of-freedom systems having quadratic nonlinearities. (Russian summary) **89k:70045**
— *see also* **Zavodney, L. D.; et al., 89m:70047**
Nechitaĭlo, A. V. The origin of vibrations with "strict" excitation in a nonlinear system of arbitrarily high order. **89c:34036**
Oh, Yong-Geun A stability criterion for Hamiltonian systems with symmetry. **89k:58101**
Ostrer, L. A. *see* **Bogaevskiĭ, V. N., 89e:70010**
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Pradeep, S. (*with* Shrivastava, S. K.) On the stability of the damped Mathieu equation. (Not in MR)
Privalov, V. A. *see* **Lokshin, B. Ya.; et al., 89j:73057**
Prueitt, Paul S. *see* **Kowalski, Jacek M.; et al., 89j:70038**
Puchka, G. N. (*with* Kholopova, V. V.) Nonlinear oscillations of an ellipsoid with a fluid containing spherical inclusions. **89i:70016**
Puzyrev, V. E. A theorem on stability with respect to the first approximation. (Russian) **89i:34076**
Ronzhin, V. V. *see* **Krasinskiĭ, A. Ya., 89k:70025**
Rubanovskiĭ, V. N. Steady motions of a body suspended from a rod, their branching and stability. (Russian) **89i:70013**
— Relative equilibria of a satellite-gyrostat, their branchings and stability. (Russian) **89m:70005**
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Samsonov, V. A. (*with* Beletskaya, N. V.) On the problem of the stability of the relative equilibrium of a rigid body with elastic rods. (Russian) **89f:70009**
— *see also* **Lokshin, B. Ya.; et al., 89j:73057**
Sanchez, N. E. *see* **Zavodney, L. D.; et al., 89m:70047**
Sapronov, Yu. I. Multidimensional sleeping tops. **89m:70011**
Sherman, P. J. *see* **Heiman, M. S.; et al., 89g:70016**
Shishkin, P. G. *see* **Ishlinskiĭ, A. Yu.; et al., 89k:70006**
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Tadjbakhsh, I. G. *see* **Anderson, Gary L., 89f:70040**
Temchenko, M. E. *see* **Ishlinskiĭ, A. Yu.; et al., 89k:70006**
Thorp, James S. *see* **Varghese, Matthew, 89e:70023**
Tondl, A. Über ein System mit nichtlinearer Parametererregung und Fremderregung. (English and Russian summaries) [On a system with nonlinear parameter excitation and external excitation] **89g:70018**
Troger, H. *see* **Stribersky, A., 89g:70019**
Varghese, Matthew (*with* Thorp, James S.) An analysis of truncated fractal growths in the stability boundaries of three-node swing equations. **89e:70023**
Verbitskaya, L. V. (*with* Kozorez, V. V.; Cheborin, O. G.) Analysis of a dynamical system of free physical pendulums. (Russian) **89i:70017**
Wang, Hong Li Perturbation solutions of strongly nonlinear oscillatory systems. (Chinese.

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Yanishevskiĭ, A. P. *see* **Burlaka, V. S., 89e:70012**
Zavodney, L. D. (*with* Nayfeh, Ali Hasan; Sanchez, N. E.) The response of a single-degree-of-freedom system with quadratic and cubic nonlinearities to a principal parametric resonance. **89m:70047**

70K25 Free motions (use only for secondary classification)

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Balachandran, Krishnan (*with* Thandapani, E.; Balasubramanian, G.) Some series solutions of the Duffing equation. **89f:34009**
Balasubramanian, G. *see* **Balachandran, Krishnan; et al., 89f:34009**
Mawhin, J. The forced pendulum: a paradigm for nonlinear analysis and dynamical systems. **89h:58174**
Mickens, R. E. Iteration procedure for determining approximate solutions to nonlinear oscillator equations. **89e:70004**
Thandapani, E. *see* **Balachandran, Krishnan; et al., 89f:34009**
Wang, Yen-Chu Singular perturbation applied to the relaxation oscillations of the van der Pol oscillator. **89h:34035**

70K30 Nonlinear resonances

Asfar, K. *see* **Nayfeh, Ali Hasan, 89f:70032**
Bajaj, A. K. *see* **Streit, D. A.; et al., 89d:70024**
Batalova, Z. S. (*with* Belyakova, G. V.) Some bifurcations of embedded structures of the equation of motion of a pendulum with an oscillating axis. (Russian) **89h:70010**
Belyakova, G. V. *see* **Batalova, Z. S., 89h:70010**
Bonzani, I. (*with* Riganti, Riccardo) Periodical solutions of nonlinear dynamical systems by decomposition method. **89c:70051**
Cartmell, M. P. (*with* Roberts, John Wilson) Simultaneous combination resonances in an autoparametrically resonant system. **89c:70052**
Chen, Shu Hui (*with* Zhang, You Qi; Lau, S. L.) On the internal resonance of multi-degree-of-freedom systems with cubic nonlinearity. **89m:70045**
Choc, P. *see* **Schreiber, I.; et al., 89c:70053**
Debnath, M. *see* **Roy Chowdhury, A., 89j:70032**
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Geist, Karlheinz (*with* Lauterborn, W.) The nonlinear dynamics of the damped and driven Toda chain. I. Energy bifurcation diagrams. **89d:70023**
Golets, V. L. (*with* Petrishin, R. I.) Nonlinear oscillations of systems passing through resonance. (Russian) **89a:70021**
Hinga, S. *see* **Peleg, K., 89k:70044**
Krousgrill, C. M. *see* **Streit, D. A.; et al., 89d:70024**
Lau, S. L. *see* **Chen, Shu Hui; et al., 89m:70045**
Lauterborn, W. *see* **Geist, Karlheinz, 89d:70023**
Marek, M. *see* **Schreiber, I.; et al., 89c:70053**
Miles, John Resonance and symmetry breaking for the pendulum. **89j:70031**
Nayfeh, Ali Hasan (*with* Asfar, K.) Nonstationary parametric oscillations. **89f:70032**
— *see also* **Zavodney, L. D.; et al., 89m:70047**
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Riganti, Riccardo *see* **Bonzani, I., 89c:70051**
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Roy Chowdhury, A. (*with* Debnath, M.) Swinging Atwood machine. Far- and near-resonance region. **89j:70032**
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Schreiber, I. (*with* Dolník, M.; Choc, P.; Marek, M.) Resonance behaviour in two-parameter families of periodically forced oscillators. **89c:70053**
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Zavodney, L. D. (*with* Nayfeh, Ali Hasan; Sanchez, N. E.) The response of a single-degree-of-freedom system with quadratic and cubic nonlinearities to a principal parametric resonance. **89m:70047**
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(Dumas, H. S.) *see* **Lochak, P., 89k:58254**
Gol'tser, Ya. M. On a measure of the closeness of neutral systems to internal resonance. **89c:34035**
Graffi, S. (*with* Paul, T.; Silverstone, H. J.) Resonance overlapping in classical mechanics and avoided crossings in quantum mechanics. **89h:81034**
Grebenikov, E. A. ★ Введение в теорию резонансных систем. (Russian) [Introduction to the theory of resonance systems] **89d:34001**
Hadjidemetriou, John D. Periodic orbits of the planetary type and their stability. **89m:70014**
Henrard, J. (*with* de Vleeschauwer, Anne) Sweeping through a second order resonance. **89m:58186**
— *see also* **Lemaître, A.**, (**89j:76002**)
Hübler, Albert *see* **Reiser, G.; et al., 89g:58183**
Jaffé, Charles (*with* Watanabe, Masakatsu) Time-independent adiabatic switching: nonintegrable classical systems. **89k:70033**
Knobloch, Edgar (*with* Proctor, M. R. E.) The double Hopf bifurcation with 2:1 resonance. **89k:58215**
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Lochak, P. (*with* Meunier, C.) ★ Multiphase averaging for classical systems. **89k:58254**
Lüscher, E. *see* **Reiser, G.; et al., 89g:58183**
Meunier, C. *see* **Lochak, P., 89k:58254**
Miles, John Resonance and symmetry breaking for a nonlinear oscillator. **89g:34049**
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Muntyan, V. I. *see* **Shpakovich, V. P., 89j:34063**
Murray, N. W. *see* **Dana, I.; et al., 89k:58177**
Nayfeh, Ali Hasan Harmonic excitation of internally resonant two-degree-of-freedom systems having quadratic nonlinearities. (Russian summary) **89k:70045**
Paul, T. *see* **Graffi, S.; et al., 89h:81034**
Percival, I. C. *see* **Dana, I.; et al., 89k:58177**
Post, T. *see* **van der Weele, J. P.; et al., 89i:58109**
Proctor, M. R. E. *see* **Knobloch, Edgar, 89k:58215**
Reinhardt, William P. (*with* Dana, I.) Semiclassical quantization, adiabatic invariants and classical chaos. **89f:58093**
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Seymour, Brian R. *see* **Mortell, Michael P., 89k:58190**
Shivamoggi, Bhimsen K. (*with* Varma, Ram K.) Internal resonances in nonlinearly-coupled oscillators. **89i:34042**
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Silverstone, H. J. *see* **Graffi, S.; et al., 89h:81034**
(Szucs, Joseph) *see* **Arnol'd, V. I., 89h:58049**
Tondl, A. Über ein System mit nichtlinearer Parametererregung und Fremderregung. (English and Russian summaries) [On a system with nonlinear parameter excitation and external excitation] **89g:70018**
Valkering, T. P. *see* **van der Weele, J. P.; et al., 89i:58109**
Varma, Ram K. *see* **Shivamoggi, Bhimsen K., 89i:34042**
de Vleeschauwer, Anne *see* **Henrard, J., 89m:58186**
Watanabe, Masakatsu *see* **Jaffé, Charles, 89k:70033**
van der Weele, J. P. (*with* Valkering, T. P.; Capel, H. W.; Post, T.) The birth of twin Poincaré-Birkhoff chains near 1:3 resonance. **89i:58109**

70K40 Forced motions

Asada, K. *see* **Sato, Hidenori, 89a:70023**
Bajaj, A. K. *see* **Heiman, M. S.; et al., 89g:70016**
Bountis, Tassos *see* **Mahmoud, Gamal M., 89i:70032**
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Choi, Yeon Sun (*with* Noah, S. T.) Forced periodic vibration of unsymmetric piecewise-linear systems. **89a:70022**
Coppersmith, S. N. Overdamped Frenkel-Kontorova model with randomness as a dynamical system: mode locking and derivation of discrete maps. **89i:70031**
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Dodonov, N. Yu. *see* **Degtyarëv, V. G.; et al., 89c:70054**
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Hongler, M.-O. (*with* Cartier, P.; Flury, P.) Numerical study of a model of vibro-transporter. **89m:70048**
Jin, J.-D. (*with* Matsuzaki, Y.) Bifurcations in a two-degree-of-freedom elastic system with follower forces. **89g:70017**
Khdeir, Ahmed A. *see* **Nayfeh, Ali Hasan, 89i:70033**
Mahmoud, Gamal M. (*with* Bountis, Tassos) Synchronized periodic solutions of a class of periodically driven nonlinear oscillators. **89i:70032**
Matsuzaki, Y. *see* **Jin, J.-D., 89g:70017**
Nayfeh, Ali Hasan Harmonic excitation of internally resonant two-degree-of-freedom systems having quadratic nonlinearities. (Russian summary) **89k:70045**
— (*with* Khdeir, Ahmed A.) Rolling of ships in large-amplitude waves. **89i:70033**
Noah, S. T. *see* **Choi, Yeon Sun, 89a:70022**
Pepłowski, P. (*with* Stefański, K.) Kicked top with pumping and dissipation. Classical results. **89i:70034**
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Sato, Hidenori (*with* Asada, K.) Laplace transform transient analysis of a nonlinear system. **89a:70023**
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Solari, H. G. (*with* Gilmore, R.) Relative rotation rates for driven dynamical systems. **89c:70055**
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Storti, Duane (*with* Rand, Richard H.) Subharmonic entrainment of a forced relaxation oscillator. **89j:70034**
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Thorp, James S. *see* **Varghese, Matthew, 89a:70024; 89e:70023** *and* **89m:70049**
Tondl, A. Über ein System mit nichtlinearer Parametererregung und Fremderregung. (English and Russian summaries) [On a system with nonlinear parameter excitation and external excitation] **89g:70018**

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Belykh, V. N. (*with* Sennikovskiĭ, Ya. N.) Qualitative investigation of a periodically nonautonomous pendulum system. II. (Russian) **89d:58092**

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Chen, Shu Hui (*with* Zhang, You Qi; Lau, S. L.) On the internal resonance of multi-degree-of-freedom systems with cubic nonlinearity. **89m:70045**

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Davenport, Neil M. *see* **Smith, Peter^2, 89i:58115**

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Gou, Yih Shun *see* **Steeb, W.-H.; et al., 89m:58144**

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Griffin, J. H. *see* **Foelsche, G. A.; et al., 89i:73059**

Hartmann, Christian *see* **Belhaq, Mohamed; et al., 89f:58096** *and* **89k:58206**

Hinaga, Tatsuya *see* **Tsuda, Yoshihiro; et al., 89j:34106**

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Huang, Jeun Chyuan *see* **Steeb, W.-H.; et al., 89m:58144**

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Jain, Rajinder Kumar (*with* Kumar, Rajive^2) A sixth-order modification of the Stiefel-Bettis method for nonlinearly damped oscillators. **89m:65068**

Kawabata, Hiroaki *see* **Shirao, Yoshiaki; et al., 89m:34048**

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Kido, Masao *see* **Shirao, Yoshiaki; et al., 89m:34048**

Kolomiets, V. G. *see* **Mitropol'skiĭ, Yu. A.; et al., 89e:34068**

Krasnosel'skiĭ, A. M. Conditions for the applicability of Fredholm theorems in the analysis of forced oscillations in nonlinear systems. (Russian. English summary) **89m:93037**

Kumar, Rajive^2 *see* **Jain, Rajinder Kumar, 89m:65068**

Lakshmanan, M. *see* **Rajasekar, S., 89h:58149**

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Makarov, V. A. (*with* Matveeva, A. V.) Regions of periodic, subharmonic, and chaotic change in the solution of the equation of a nonlinear oscillator with a harmonic external force—numerical calculations and analytic estimates. (Russian) **89m:70050**

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Müller, Peter C. *see* **Bajkowski, J., 89j:58075**

Nagahara, Toshikuni *see* **Shirao, Yoshiaki; et al., 89m:34048**

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Parhi, N. (*with* Parhi, S.) Qualitative behaviour of solutions of forced nonlinear third order differential equations. **89k:34050**

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Petrovichev, B. A. *see* **Chernikov, Aleksandr Antonovich; et al., 89g:58180**

Porzio, Anna *see* **Celletti, Alessandra; et al., 89e:58105**

Puchka, G. N. (*with* Kholopova, V. V.) Nonlinear oscillations of an ellipsoid with a fluid containing spherical inclusions. **89i:70016**

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Rajasekar, S. (*with* Lakshmanan, M.) Period doubling route to chaos for a BVP oscillator with periodic external force. **89h:58149**

Robinson, F. N. H. The modified van der Pol oscillator. **89m:34046**

— An experimental investigation of a nonlinear Mathieu equation. **89m:58173**

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Smith, Peter^2 (*with* Davenport, Neil M.) A perturbation method for saddle connections and homoclinic bifurcation in Duffing's equation. **89i:58115**

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Zheleznyak, A. L. On the existence of homoclinic trajectories for an equation of Rayleigh type with a small parameter multiplying the higher derivative. (Russian) **89k:58227**

70K50 Transition to stochasticity [see also 58F13]

Antoranz, J. C. *see* **Rubio, M. A.; et al., 89b:70013**

Belykh, V. N. (*with* Verichev, N. N.) The dynamics of coupled rotators. **89j:70035**

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Dmitriev, A. S. (*with* Gulyaev, Yu. V.; Kislov, V. Ya.; Panas, A. I.) Mode pulling and competition in a system with chaotic dynamics. **89b:70007**

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— (*with* Pezeshki, C.) On necessary and sufficient conditions for chaos to occur in Duffing's equation: an heuristic approach. **89c:70056**

Franaszek, Marek *see* **Kowalik, Zbigniew J.; et al., 89b:70012**

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Hongler, M.-O. (*with* Streit, L.) On the origin of chaos in gearbox models. **89c:70057**

Kapitaniak, T. Quantifying chaos with amplitude probability density function. **89b:70009**

— Combined bifurcations and transition to chaos in a nonlinear oscillator with two external periodic forces. **89b:70010**

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Koch, B. P. (*with* Bruhn, B.) Transient chaos in weakly coupled Josephson junctions. (French summary) **89b:70011**

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Matinyan, S. G. (*with* Savvidi, G. K.; Ter-Arutyunyan-Savvidi, N. G.) Stochasticity of Yang-Mills classical mechanics and its elimination by the Higgs mechanism. **89m:70051**

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Mori, Hazime *see* **Hata, Hiroki; et al., 89b:70008**

Morita, Terumitsu *see* **Hata, Hiroki; et al., 89b:70008**

Panas, A. I. *see* **Dmitriev, A. S.; et al., 89b:70007**

de Pater, A. D. *see* **Meijaard, J. P., 89m:70052**

Percival, I. C. (*with* Vivaldi, Franco) Critical dynamics and trees. **89m:70053**

Pezeshki, C. *see* **Dowell, Earl H., 89c:70056**

Pierański, Piotr *see* **Kowalik, Zbigniew J.; et al., 89b:70012**

Rubio, M. A. (*with* de la Torre, M.; Antoranz, J. C.; Velarde, Manuel G.) Digital and analog approach to intermittencies and $1/f$ noise in a nonlinear Helmholtz oscillator. **89b:70013**

Savvidi, G. K. *see* **Matinyan, S. G.; et al., 89m:70051**

Shaw, S. W. (*with* Wiggins, Stephen) Chaotic motions of a torsional vibration absorber. **89j:70037**

Sherwell, D. Transport in noisy nonintegrable systems. **89m:70054**

Streit, L. *see* **Hongler, M.-O., 89c:70057**

Stribersky, A. (*with* Troger, H.) Globales Verzweigungsverhalten am Beispiel eines längselastischen Doppelpendels unter Folgelast. [Global bifurcation behavior using the example of a double pendulum with longitudinal elasticity under tracking load] **89g:70019**

Szemplińska-Stupnicka, Wanda Chaotic and regular motion in nonlinear vibrating systems. **89g:70020**

Ter-Arutyunyan-Savvidi, N. G. *see* **Matinyan, S. G.; et al., 89m:70051**

Thompson, J. M. T. Chaotic phenomena triggering the escape from a potential well. **89m:70055**

Tomita, Koji *see* **Hata, Hiroki; et al., 89b:70008**

de la Torre, M. *see* **Rubio, M. A.; et al., 89b:70013**

Troger, H. *see* **Stribersky, A., 89g:70019**

Van Dooren, R. On the transition from regular to chaotic behaviour in the Duffing oscillator. **89c:70058**

Velarde, Manuel G. *see* **Rubio, M. A.; et al., 89b:70013**

Verichev, N. N. *see* **Belykh, V. N., 89j:70035** *and* **89j:70036**

Vivaldi, Franco *see* **Percival, I. C., 89m:70053**

Wiggins, Stephen *see* **Shaw, S. W., 89j:70037**

Items with secondary classifications in 70K50

Alabiso, C. (*with* Casartelli, M.) Complexity and relaxation in nonlinear chains and in a model of radiant cavity. **89k:58079**

Aref, H. *see* **Eckhardt, Bruno, 89k:58178**

Bajaj, A. K. *see* **Streit, D. A.; et al., 89d:70024** *and* **Heiman, M. S.; et al., 89g:70016**

Bajkowski, J. (*with* Müller, Peter C.) Lyapunov exponents and fractal dimension in nonlinear mechanical systems. **89j:58075**

Barkley, Dwight Near-critical behavior for one-parameter families of circle maps. **89f:58095**

Bishop, A. R. (*with* McLaughlin, D. W.; Forest, M. G.; Overman, E. A., II) Quasiperiodic route to chaos in a near-integrable PDE: homoclinic crossings. **89c:58074**

Bleher, Siegfried (*with* Grebogi, Celso; Ott, Edward; Brown, Reggie) Fractal boundaries for exit in Hamiltonian dynamics. **89g:58127**

Bolotin, Yu. L. (*with* Gonchar, V. Yu.; Tarasov, V. N.; Chekanov, N. A.) The transition "regularity-chaos-regularity" and statistical properties of energy spectra. **89m:58060**

Brown, Reggie (*with* Ott, Edward; Grebogi, Celso) The goodness of ergodic adiabatic invariants. **89e:58076**

— *see also* **Bleher, Siegfried; et al., 89g:58127**

Cartier, P. *see* **Hongler, M.-O.; et al., 89m:70048**

Casartelli, M. *see* **Alabiso, C., 89k:58079**

Chekanov, N. A. *see* **Bolotin, Yu. L.; et al., 89m:58060**

Chiu, H. M. *see* **Hsu, Chieh Su, 89c:58078**

Chua, Leon O. *see* **Silva, Christopher P., 89k:58198**

Cumming, Andrew (*with* Linsay, Paul S.) Quasiperiodicity and chaos in a system with three competing frequencies. **89g:58129**

Cvitanović, Predrag Invariant measurement of strange sets in terms of cycles. **89i:58081**

Dana, I. (*with* Murray, N. W.; Percival, I. C.) Resonances and diffusion in periodic Hamiltonian maps. **89k:58177**

Ding, E Jiang Structure of the parameter space for the van der Pol oscillator. **89i:58083**

Dowell, Earl H. (*with* Il′gamov, M. A.) ★ Studies in nonlinear aeroelasticity. **89k:73037**

— *see also* **Pezeshki, C., 89j:58081**

Dvorak, R. *see* **Karch, M., (89j:76002)**

Eckhardt, Bruno (*with* Aref, H.) Integrable and chaotic motions of four vortices. II. Collision dynamics of vortex pairs. **89k:58178**

Feingold, Mario (*with* Kadanoff, Leo P.; Piro, Oreste) Passive scalars, three-dimensional volume-preserving maps, and chaos. **89h:58167**

Flury, P. *see* **Hongler, M.-O.; et al., 89m:70048**

Forest, M. G. *see* **Bishop, A. R.; et al., 89c:58074**

(Gaponov-Grekhov, A. V.) *see* **Schuster, Heinz Georg, 89h:58130**

Goggin, M. E. (*with* Milonni, P. W.) Driven Morse oscillator: classical chaos, quantum theory, and photodissociation. **89b:81035**

Gonchar, V. Yu. *see* **Bolotin, Yu. L.; et al., 89m:58060**

Gou, Yih Shun *see* **Steeb, W.-H.; et al., 89m:58144**

Grebogi, Celso (*with* Ott, Edward; Yorke, James A.) Chaos, strange attractors, and fractal basin boundaries in nonlinear dynamics. **89h:58113**

— *see also* **Brown, Reggie; et al., 89e:58076** *and* **Bleher, Siegfried; et al., 89g:58127**

Guo, Rui Hai (*with* Yuan, Xiao Feng) ★ Chaos and bifurcation of phase-locking loops under periodic perturbation. **89j:58093**

Heiman, M. S. (*with* Bajaj, A. K.; Sherman, P. J.) Periodic motions and bifurcations in dynamics of an inclined impact pair. **89g:70016**

Herbst, B. M. The road to chaos in the parametrically driven oscillator. **89m:58140**

Herzel, H. Stabilization of chaotic orbits by random noise. (Not in MR)

Hongler, M.-O. (*with* Cartier, P.; Flury, P.) Numerical study of a model of vibro-transporter. **89m:70048**

Hsu, Chieh Su (*with* Chiu, H. M.) Global analysis of a system with multiple responses including a strange attractor. **89c:58078**

Hu, Bambi (*with* Mao, Jian-Min) Transitions to chaos in higher dimensions. **89h:58116**

Huang, Jeun Chyuan *see* **Steeb, W.-H.; et al., 89m:58144**

Il′gamov, M. A. *see* **Dowell, Earl H., 89k:73037**

(Izraĭlev, F. M.) *see* **Schuster, Heinz Georg, 89h:58130**

Kadanoff, Leo P. *see* **Feingold, Mario; et al., 89h:58167**

Kapitaniak, T. ★ Chaos in systems with noise. **89k:58183**

Karch, M. (*with* Dvorak, R.) New results on the possible chaotic motion of Enceladus. (*see* **89j:76002**)

Kashchenevskiĭ, L. Ya. (*with* Piragas, K. A.; Sol′tsas, R. Kh.) A one-dimensional nonautonomous system with chaotic oscillations. (Russian) **89g:58132**

Khdeir, Ahmed A. *see* **Nayfeh, Ali Hasan, 89i:70033**

Kitney, R. I. *see* **Treiber, J., 89i:76061**

Krousgrill, C. M. *see* **Streit, D. A.; et al., 89d:70024**

Kunick, A. *see* **Steeb, W.-H., 89h:58132**

Lakshmanan, M. *see* **Rajasekar, S., 89h:58149**

Lee, Koo-Chul Long-time tails in a chaotic system. **89d:58085**

Linsay, Paul S. *see* **Cumming, Andrew, 89g:58129**

(Malkin, M. I.) *see* **Schuster, Heinz Georg, 89h:58130**

Mao, Jian-Min *see* **Hu, Bambi, 89h:58116**

McLaughlin, D. W. *see* **Bishop, A. R.; et al., 89c:58074**

Meyer, Hans-Dieter Chaotic behavior of classical Hamiltonian systems. **89i:58093**

Milonni, P. W. *see* **Goggin, M. E., 89b:81035**

Moon, F. ★ Chaotic vibrations. **89h:58127**

Mortell, Michael P. (*with* Seymour, Brian R.) The calculation of resonance separatrices for the near-integrable case of the standard mapping. **89k:58190**

Müller, Peter C. *see* **Bajkowski, J., 89j:58075**

Murray, N. W. *see* **Dana, I.; et al., 89k:58177**

Nayfeh, Ali Hasan (*with* Khdeir, Ahmed A.) Rolling of ships in large-amplitude waves. **89i:70033**

— *see also* **Zavodney, L. D.; et al., 89m:70047**

Ott, Edward *see* **Brown, Reggie; et al., 89e:58076; Bleher, Siegfried; et al., 89g:58127** *and* **Grebogi, Celso; et al., 89h:58113**

Overman, E. A., II *see* **Bishop, A. R.; et al., 89c:58074**

Pepłowski, P. (*with* Stefański, K.) Kicked top with pumping and dissipation. Classical results. **89i:70034**

Percival, I. C. *see* **Dana, I.; et al., 89k:58177**

Pezeshki, C. (*with* Dowell, Earl H.) On chaos and fractal behavior in a generalized Duffing's system. **89j:58081**

Piragas, K. A. *see* **Kashchenevskiĭ, L. Ya.; et al., 89g:58132**

Piro, Oreste *see* **Feingold, Mario; et al., 89h:58167**

(Rabinovich, M. I.) *see* **Schuster, Heinz Georg, 89h:58130**

Rajasekar, S. (*with* Lakshmanan, M.) Period doubling route to chaos for a BVP oscillator with periodic external force. **89h:58149**

(Reĭman, A. M.) *see* **Schuster, Heinz Georg, 89h:58130**

Sanchez, N. E. *see* **Zavodney, L. D.; et al., 89m:70047**

Schmidt, Günter Global nonlinear vibrations and onset of chaos. **89h:70009**

Schuster, Heinz Georg ★ Детерминированный хаос. (Russian) [Deterministic chaos] **89h:58130**

Seymour, Brian R. *see* **Mortell, Michael P., 89k:58190**

Shaw, Jinsiang (*with* Shaw, S. W.) The onset of chaos in a two-degree-of-freedom impacting system. **89m:58143**

Shaw, S. W. *see* **Shaw, Jinsiang, 89m:58143** *and* **Wiggins, Stephen, 89m:58162**

Sherman, P. J. *see* **Heiman, M. S.; et al., 89g:70016**

Silva, Christopher P. (*with* Chua, Leon O.) The overdamped double-scroll family. I. Piecewise-linear geometry and normal form. **89k:58198**

Sol′tsas, R. Kh. *see* **Kashchenevskiĭ, L. Ya.; et al., 89g:58132**

Steeb, W.-H. (*with* Kunick, A.) Chaos in limit cycle systems with external periodic excitations. **89h:58132**

— (*with* Huang, Jeun Chyuan; Gou, Yih Shun) A comment on the chaotic behaviour of van der Pol equations with an external periodic excitation. **89m:58144**

Stefański, K. *see* **Pepłowski, P., 89i:70034**

Stewart, H. Bruce A chaotic saddle catastrophe in forced oscillators. **89k:58256**

Streit, D. A. (*with* Bajaj, A. K.; Krousgrill, C. M.) Combination parametric resonance leading to periodic and chaotic response in two-degree-of-freedom systems with quadratic nonlinearities. **89d:70024**

Sun, Jian Hua Chaotic behavior in forced vibration systems containing a higher-degree nonlinear term. **89j:58084**

Szemplińska-Stupnicka, Wanda Chaotic motion in vibrating systems versus the approximate theory of nonlinear oscillations. **89b:58140**

— Bifurcations of harmonic solution leading to chaotic motion in the softening type Duffing's oscillator. **89m:70046**

Tarasov, V. N. *see* **Bolotin, Yu. L.; et al., 89m:58060**

Treiber, J. (*with* Kitney, R. I.) Cooperative dynamics of a coupled-oscillator system and the forced free shear layer. **89i:76061**

Villarroel, J. Stochasticity in Yang-Mills theory. **89h:81125**

Wiggins, Stephen Adiabatic chaos. **89c:58085**

— (*with* Shaw, S. W.) Chaos and three-dimensional horseshoes in slowly varying oscillators. **89m:58162**

Yorke, James A. *see* **Grebogi, Celso; et al., 89h:58113**

Yuan, Xiao Feng *see* **Guo, Rui Hai, 89j:58093**

Zak, M. Chaotic instability in mechanical systems. **89j:58087**

Zavodney, L. D. (*with* Nayfeh, Ali Hasan; Sanchez, N. E.) The response of a single-degree-of-freedom system with quadratic and cubic nonlinearities to a principal parametric resonance. **89m:70047**

70K99 None of the above, but in this section

Akulenko, L. D. Averaging in a quasilinear system with a strongly varying frequency. **89g:70021**

Ambrosetti, Antonio (*with* Coti Zelati, Vittorio) Oscillations non linéaires pour des problèmes de la mécanique céleste. (English summary) [Nonlinear oscillations for a class of problems arising in celestial mechanics] **89i:70036**

Ansari, Ali *see* **Kowalski, Jacek M.; et al., 89j:70038**

Bereznyak, G. I. (*with* Nikol′skaya, Zh. A.; Yaroshevich, G. O.) A study of vibro-shock systems. (Russian) (*see* **89g:65006**)

Casasayas, J. *see* **Tufillaro, N.; et al., 89k:70047**

Chakraborty, Tapesh (*with* Rand, Richard H.) The transition from phase locking to drift in a system of two weakly coupled van der Pol oscillators. **89m:70056**

Coti Zelati, Vittorio *see* **Ambrosetti, Antonio, 89i:70036**

Dawes, Robert L. *see* **Kowalski, Jacek M.; et al., 89j:70038**

Gross, Gunther *see* **Kowalski, Jacek M.; et al., 89j:70038**

Kal′yanov, È. V. (*with* Starkov, S. O.) The effect of noise on a self-induced oscillating system with delay. (Russian) (Not in MR)

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Lo Bosco, Dario *see* **Tesoriere, Giovanni, 89c:70059**

Mitropol′skiĭ, Yu. A. Asymptotic methods and the development of nonlinear mechanics. (Russian) (*see* **89f:70001**)

— The group-theoretic approach in asymptotic methods of nonlinear mechanics. (Russian) **89f:70033**
— (*with* Nosirov, F. U.) Asymptotic methods of nonlinear mechanics in the theory of gyroscopic systems. (Russian) **89e:70024**
Moroz, B. I. *see* **Zevin, Aleksandr Aronovich, 89g:70022**
Nayfeh, Ali Hasan Numerical-perturbation methods in mechanics. **89i:70037**
Nikol′skaya, Zh. A. *see* **Bereznyak, G. I.; et al.**, (**89g:65006**)
Nosirov, F. U. *see* **Mitropol′skiĭ, Yu. A., 89e:70024**
Nunes, A. *see* **Tufillaro, N.; et al., 89k:70047**
Prueitt, Paul S. *see* **Kowalski, Jacek M.; et al., 89j:70038**
Rand, Richard H. *see* **Chakraborty, Tapesh, 89m:70056**
Shen, Zu He On the periodic solution to the Newtonian equation of motion. **89k:70046**
Starkov, S. O. *see* **Kal′yanov, È. V.**, (Not in MR)
Tesoriere, Giovanni (*with* Lo Bosco, Dario) On the existence, uniqueness and estimation of the solution of equations of motion for a railway vehicle, according to Johnsson. (Italian) **89c:70059**
Tufillaro, N. (*with* Nunes, A.; Casasayas, J.) Unbounded orbits of a swinging Atwood's machine. **89k:70047**
Yaroshevich, G. O. *see* **Bereznyak, G. I.; et al.**, (**89g:65006**)
Zevin, Aleksandr Aronovich (*with* Moroz, B. I.) Existence of periodic oscillations in a conservative mechanical system with two degrees of freedom. (Russian) **89g:70022**

Items with secondary classifications in 70K99

Adomian, George A. A review of the decomposition method in applied mathematics. **89j:00046**
Andersen, K. Munk (*with* Sandqvist, A.) Liénard equations with bounded trajectories in the Liénard plane. **89m:34072**
Antman, Stuart S. A zero-dimensional shock. **89i:34027**
Arnol′d, V. I. ★ Geometrical methods in the theory of ordinary differential equations. **89h:58049**
Aronson, D. G. (*with* Doedel, E. J.; Othmer, Hans G.) An analytical and numerical study of the bifurcations in a system of linearly-coupled oscillators. **89d:58091**
Bahar, Leon Y. *see* **Trench, William F., 89d:34007**
Battelli, Flaviano (*with* Lazzari, Claudio) On the existence of periodic solutions for perturbed systems. (Italian summary) **89k:34097**
Bolotin, S. V. On the Hill determinant of a periodic orbit. (Russian) **89i:58030**
Bouquet, S. *see* **Leach, P. G. L.; et al., 89m:34015**
Bruschi, M. (*with* Ragnisco, O.) Recursion operator and Bäcklund transformations for the Ruijsenaars-Toda lattice. **89j:58041**
Cai, Guo Qiang *see* **Lin, Y. K., 89g:70025**
Curry, James H. (*with* Fiedler, Stuart L.) On the dynamics of Laguerre's iteration: $Z^n - 1$. **89h:65076**
Dana, I. (*with* Reinhardt, William P.) Adiabatic invariance in the standard map. **89g:58181**
Dash, P. C. Lattice solitons and nonlinear diatomic models. **89i:70021**
Derendyaev, N. V. The Andronov-Hopf bifurcation in the dynamics of a rotor system containing a fluid. **89k:76096**
Ding, Tong Ren A response to the Birkhoff's conjecture on recurrent motions of analytic dynamical systems. **89m:58178**
Doedel, E. J. *see* **Aronson, D. G.; et al., 89d:58091**
Eckmann, J.-P. (*with* Wayne, C. Eugene) Liapunov spectra for infinite chains of nonlinear oscillators. **89m:58120**
Evans, S. J. *see* **Thomas, Ruth Margaret**, (Not in MR)
Feix, M. R. *see* **Leach, P. G. L.; et al., 89m:34015**
Fiedler, Stuart L. *see* **Curry, James H., 89h:65076**
Franks, John Generalizations of the Poincaré-Birkhoff theorem. **89m:54052**
Gerasimov, A. L. Phase convection and nonequilibrium fluctuations in nearly-integrable systems. **89m:82028**
Gregson, Robert A. M. *see* **Price, Ian R., 89c:92086**
Grigor′eva, O. V. (*with* Skimel′, V. N.) Investigation of the limit behavior of the solutions of a system of differential equations by the comparison method. (Russian) **89e:93123**
Gu, K. *see* **Tongue, B. H., 89k:58147**
Huseyin, K. (*with* Yu, Pei) On bifurcations into nonresonant quasiperiodic motions. **89f:58101**
Iooss, G. Local techniques in bifurcation theory and nonlinear dynamics. **89i:58105**
Jiang, Mei Yue Existence of periodic solutions for a class of Hamiltonian systems. (Chinese) (Not in MR)
Kale, R. G. (*with* Srirangarajan, H. R.) Optimum ultraspherical polynomial index for approximate analysis of nonlinear vibration problems. **89k:70002**
Kawamura, Shozo *see* **Yasuda, Kimihiko; et al., 89i:93035**
Kleczka, M. (*with* Kreuzer, E.) Ljapunov-Exponenten zur Analyse nichtlinearer dynamischer Systeme. [Lyapunov exponents for the analysis of nonlinear dynamical systems] **89g:58182**
Knobloch, Edgar (*with* Proctor, M. R. E.) The double Hopf bifurcation with 2:1 resonance. **89k:58215**
Komraz, L. A. (*with* Ukrainskiĭ, B. S.) Stationary density of the distribution of the coordinates of a discontinuous two-dimensional mapping with randomly varying parameter. (Russian) **89h:60034**
Kreuzer, E. *see* **Kleczka, M., 89g:58182**
ten Kroode, A. P. E. Geometrical description of the Toda lattice. **89h:58062**
Kuramoto, Yoshiki (*with* Nishikawa, Ikuko) Statistical macrodynamics of large dynamical systems. Case of a phase transition in oscillator communities. **89c:82078**
Lazzari, Claudio *see* **Battelli, Flaviano, 89k:34097**
Leach, P. G. L. (*with* Feix, M. R.; Bouquet, S.) Analysis and solution of a nonlinear second-order differential equation through rescaling and through a dynamical point of view. **89m:34015**
Lim, Chjan On singular Hamiltonians: the existence of quasi-periodic solutions and nonlinear stability. **89k:58094**
Lin, Y. K. (*with* Cai, Guo Qiang) Exact stationary response solution for second order nonlinear systems under parametric and external white noise excitations. II. **89g:70025**
Lu, Pei Shan Dynamic stability of a cutting process, taking into account the nonlinear structural stiffness of machine tools. (Chinese. English summary) (Not in MR)
Markeev, A. P. (*with* Shcherbina, G. A.) On motions asymptotic to triangular points of libration of the restricted circular three-body problem. **89f:70015**
Mather, John N. Dynamics of area preserving maps. **89j:58067**
Maugis, Daniel Propagation saccadée de fissure en pelage, rôle de l'inertie. (English summary) [Stick-slip motion during peeling; analysis of inertial effects] **89m:73031**
Medvedev, G. N. (*with* Morgunov, B. I.) Oscillatory modes of some nonlinear systems with a distributed delay. (Russian) **89k:70005**
Mickens, R. E. Bounds on the Fourier coefficients for the periodic solutions of nonlinear oscillator equations. **89g:34048**
Mirollo, R. E. *see* **Strogatz, S. H., 89i:82118a** *and* **89i:82118b**
Mischaikow, Konstantin Bifurcations into pathology for Hamiltonian systems. **89f:58059**
Mitropol′skiĭ, Yu. A. (*with* Samoĭlenko, A. M.) General problems of the theory of the asymptotic integration of systems in nonlinear mechanics. (Russian) **89e:34077**
Montaldi, J. (*with* Roberts, Mark; Stewart, Ian) Nonlinear normal modes of symmetric Hamiltonian systems. **89m:58069**
Morgunov, B. I. *see* **Medvedev, G. N., 89k:70005**
Moshchuk, N. K. Qualitative analysis of the motion of a rigid body of revolution on an absolutely rough plane. (Russian) **89m:70009**
Nishikawa, Ikuko *see* **Kuramoto, Yoshiki, 89c:82078**
Othmer, Hans G. *see* **Aronson, D. G.; et al., 89d:58091**
Paladin, G. (*with* Vulpiani, A.) Anomalous scaling laws in multifractal objects. **89k:58192**
Papoulias, Fotis Andrea A qualitative and quantitative study of steady-state response of towed floating bodies. **89k:58261**
Price, Ian R. (*with* Gregson, Robert A. M.) Nonlinear dynamics in a complex cubic one-dimensional model for sensory psychophysics. **89c:92086**
Proctor, M. R. E. *see* **Knobloch, Edgar, 89k:58215**
Ragnisco, O. *see* **Bruschi, M., 89j:58041**
Reinhardt, William P. *see* **Dana, I., 89g:58181**
Roberts, Mark *see* **Montaldi, J.; et al., 89m:58069**
Rosenau, Philip Dynamics of systems in close-to-continuum conditions. **89c:73067**
Salam, Fathi M. A. The applicability of Mel′nikov's method to (highly) dissipative systems. **89m:58142**
Samoĭlenko, A. M. *see* **Mitropol′skiĭ, Yu. A., 89e:34077**
Sandqvist, A. *see* **Andersen, K. Munk, 89m:34072**
Seisl, M. (*with* Steindl, A.; Troger, H.) Chaos im diskreten mechanischen Modell der Sinus Gordon Gleichung. [Chaos in the discrete mechanical model of the sine-Gordon equation] **89g:58158**
Sethna, P. R. On normal forms, averaging and symbolic manipulators. (Russian summary) **89k:34056**
Shcherbina, G. A. A numerical method for constructing Lyapunov-Poincaré asymptotic motions. (Russian) **89k:58105**
— *see also* **Markeev, A. P., 89f:70015**
Shimizu, Toshihiro Perturbation theory analysis of chaos. II. Chaos in a time-dependent Hamiltonian system. **89c:58084**
Shkil′, N. I. Periodic solutions of systems of second-order differential equations. (Russian) **89d:34094**
Skimel′, V. N. *see* **Grigor′eva, O. V., 89e:93123**
So, Byon Chol *see* **Yoshida, Takeshi, 89j:58070**
Sobolev, V. A. *see* **Strygin, V. V., 89k:34071**
Srirangarajan, H. R. *see* **Kale, R. G., 89k:70002**
Steindl, A. (*with* Troger, H.) Bifurcations and oscillations in mechanical systems with symmetries. **89f:58107**
— *see also* **Seisl, M.; et al., 89g:58158**
Stewart, Ian *see* **Montaldi, J.; et al., 89m:58069**
Strogatz, S. H. (*with* Mirollo, R. E.) Collective synchronisation in lattices of nonlinear oscillators with randomness. **89i:82118a**
— (*with* Mirollo, R. E.) Corrigendum: "Collective synchronisation in lattices of nonlinear oscillators with randomness". **89i:82118b**
Strygin, V. V. (*with* Sobolev, V. A.) ★ Разделение движений методом интегральных многообразий. (Russian) [Separation of motions by the method of integral manifolds] **89k:34071**
(Szucs, Joseph) *see* **Arnol′d, V. I., 89h:58049**
Thomas, Ruth Margaret (*with* Evans, S. J.) A single-step algorithm for oscillatory problems. (Not in MR)
Tian, Qing Hui Asymptotic dynamical systems. (Chinese. English summary) **89m:34059**
Toda, Morikazu ★ Theory of nonlinear lattices. **89h:58082**
Tondl, A. Self-excited oscillations in hydraulic systems with compressors or centrifugal pumps. **89b:58190**
Tongue, B. H. (*with* Gu, K.) A higher order method of interpolated cell mapping. **89k:58147**
Trench, William F. (*with* Bahar, Leon Y.) First integrals for equations with nonlinearities of the Emden-Fowler type. **89d:34007**
Troger, H. *see* **Steindl, A., 89f:58107** *and* **Seisl, M.; et al., 89g:58158**
Ukrainskiĭ, B. S. *see* **Komraz, L. A., 89h:60034**
Vacca, Jacopa Harmonic balance and classical variational methods. (Italian. English summary) **89i:70025**
Vulpiani, A. *see* **Paladin, G., 89k:58192**
Watanabe, Koutaro *see* **Yasuda, Kimihiko; et al., 89i:93035**
Wayne, C. Eugene *see* **Eckmann, J.-P., 89m:58120**
Yasuda, Kimihiko (*with* Kawamura, Shozo; Watanabe, Koutaro) Identification of nonlinear multi-degree-of-freedom systems (presentation of an identification technique). **89i:93035**
Yoshida, Takeshi (*with* So, Byon Chol) Spectra of singularities and entropies for local expansion rates. **89j:58070**
Yu, Pei *see* **Huseyin, K., 89f:58101**

70L05 Random vibrations [see also 93Exx]

Ahmadi, Goodarz (*with* Orabi, I. I.) Equivalence of single-term Wiener-Hermite and equivalent linearization techniques. **89a:70025**
— *see also* **Orabi, I. I., 89m:70062**
Ariaratnam, S. T. (*with* Xie, W.-C.) Stochastic sample stability of oscillatory systems. **89m:70057**
— *see also* **Sri Namachchivaya, N., 89k:70050** *and* **Grigoriu, M., 89m:70058**
Bublik, G. F. On the theory of vibration-isolated ground gyrocompasses under conditions of random perturbations. (Russian) **89f:70034**
Cai, Guo Qiang (*with* Lin, Y. K.) On exact stationary solutions of equivalent nonlinear stochastic systems. **89i:70038**
— *see also* **Lin, Y. K., 89g:70025**
Davies, H. G. (*with* Rajan, Srivatsa) Random superharmonic and subharmonic response: multiple time scaling of a Duffing oscillator. **89g:70023**
— *see also* **Liu, Qiang, 89e:70025** *and* **Rajan, Srivatsa, 89f:70035**
Davoodi, H. *see* **Noori, M.; et al., 89i:70040**
Grigoriu, M. (*with* Ariaratnam, S. T.) Response of linear systems to polynomials of Gaussian processes. **89m:70058**
Gritsa, T. M. Oscillations of quasilinear systems with random deviation of the argument and random impulse loads. (Russian) **89m:70059**
Herzel, H. Stabilization of chaotic orbits by random noise. (Not in MR)
Hsu, Chieh Su *see* **Sun, J.-Q., 89i:70041** *and* **89m:70063**
Iwankiewicz, R. (*with* Wójcicki, Z.) Threshold crossings in a linear oscillator due to a Poissonian train of general pulses. (Russian and Polish summaries) **89i:70039**
Iyengar, R. Narayana Higher order linearization in nonlinear random vibration. **89k:70048**
— Stochastic response and stability of the Duffing oscillator under narrowband excitation. **89g:70024**
Kapitaniak, T. Response of a nonlinear system to two-step Markov noise: non-Markovian averaging. **89m:70060**
Kolomiets, V. G. (*with* Tsikaĭlo, T.-N. M.) Asymptotic methods and periodic Ateb functions in some nonlinear problems of the theory of random oscillations. (Russian) **89c:70060**
— (*with* Rybachok, A. V.) Integration of the Kolmogorov-Fokker-Planck equation by the generalized separation of arguments. **89k:70049**
Langley, R. S. A variational formulation of the FPK equations with application to the first passage problem in random vibration. **89c:70061**
— An investigation of multiple solutions yielded by the equivalent linearization method. **89j:70039**
— Application of the principle of detailed balance to the random vibration of nonlinear oscillators. **89m:70061**
Lin, Y. K. (*with* Cai, Guo Qiang) Exact stationary response solution for second order nonlinear systems under parametric and external white noise excitations. II. **89g:70025**
— *see also* **Cai, Guo Qiang, 89i:70038**
Liu, Qiang (*with* Davies, H. G.) Application of non-Gaussian closure to the nonstationary response of a Duffing oscillator. **89e:70025**
Mirollo, R. E. *see* **Strogatz, S. H., 89j:70040**
Nguyen Dong Anh A method for solving the Kolmogorov-Fokker-Planck equations in the theory of random oscillations. (Russian) **89a:70026**
Noori, M. (*with* Davoodi, H.; Saffar, A.) An Itô-based general approximation method for random vibration of hysteretic systems. I. Gaussian analysis. **89i:70040**
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Rajan, Srivatsa (*with* Davies, H. G.) Multiple time scaling of the response of a Duffing oscillator to narrow-band random excitation. **89f:70035**
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Saffar, A. *see* **Noori, M.; et al., 89i:70040**
Schimansky-Geier, L. Effect of additive colored noise on the motion in an external field. **89a:70027**
Sri Namachchivaya, N. (*with* Ariaratnam, S. T.) Stochastically perturbed Hopf bifurcation. **89k:70050**
Strogatz, S. H. (*with* Mirollo, R. E.) Phase-locking and critical phenomena in lattices of coupled nonlinear oscillators with random intrinsic frequencies. **89j:70040**
Sun, J.-Q. (*with* Hsu, Chieh Su) First-passage time probability of nonlinear stochastic systems by generalized cell mapping method. **89m:70063**
— (*with* Hsu, Chieh Su) A statistical study of generalized cell mapping. **89i:70041**
To, C. W. S. Recursive expressions for random response of nonlinear systems. **89d:70026**
— Random response of a Duffing oscillator by the stochastic central difference method. **89f:70036**
— On dynamic systems disturbed by random parametric excitations. **89m:70064**
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Windrich, H. Stochastische Vorgänge in selbsterregungsfähigen Systemen. [Stochastic processes in self-excitable systems] **89e:70026**
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Elishakoff, I. Random vibration of multi-degree-of-freedom systems with associated effect of cross-correlations. **89j:60059**
Györgyi, Géza (*with* Tishby, Naftali) Path integrals in Hamiltonian systems: breakup of the last Kolmogorov-Arnol′d-Moser torus due to random forces. **89j:58031**
Just, Wolfram (*with* Sauermann, Herwig) Ordinary differential equations for nonlinear stochastic oscillators. **89i:82011**
Kapitaniak, T. ★ Chaos in systems with noise. **89k:58183**
Kats, I. Ya. Stability up to the first approximation of stochastic systems with Markov parametric perturbations. (Russian) **89i:93119**
Khapaev, Mikhail Mikhaĭlovich ★ Асимптотические методы и устойчивость в теории нелинейных колебаний. (Russian) [Asymptotic methods and stability in the theory of nonlinear oscillations] **89g:34047**
Kliemann, W. Analysis of nonlinear stochastic systems. **89j:60075**
Klimontovich, Yu. L. (*with* Bonitz, M.) Evolution of the entropy of stationary states in self-organization processes in the control parameter space. **89g:82034**
Komraz, L. A. (*with* Ukrainskiĭ, B. S.) Stationary density of the distribution of the coordinates of a discontinuous two-dimensional mapping with randomly varying parameter. (Russian) **89h:60034**
Kühnel, A. *see* **Teubel, A.; et al., 89f:60055**
Long, F. X. *see* **Yang, J. N.; et al., 89j:73076**
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Mignolet, M. P. (*with* Spanos, P. D.) Recursive simulation of stationary multivariate random processes. I. **89i:93129**
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Sauermann, Herwig *see* **Just, Wolfram, 89i:82011**
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To, C. W. S. Direct integration operators and their stability for random response of multi-degree-of-freedom systems. **89k:73050**
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Wong, D. *see* **Yang, J. N.; et al., 89j:73076**
Yang, J. N. (*with* Long, F. X.; Wong, D.) Optimal control of nonlinear structures. **89j:73076**

70Mxx Orbital mechanics

70M05 Satellite problems

Bărbosu, Mihai On the determination of the Eulerian orbital elements of an artificial earth satellite. (*see* **89c:70021**)
Barkin, Yu. V. (*with* Èrgasheva, M. È.) Periodic modes of motion of a satellite-gyrostat in a triangular point of libration in the circular restricted three-body problem. (Russian) (*see* **89g:70002**)
Beletskiĭ, V. V. Dynamics of cable-connected [tethered] space systems. (Russian) **89j:70041**
Brumberg, V. A. (*with* Kopeĭkin, S. M.) Relativistic equations of motion of the Earth's satellite in a geocentric frame of reference. (Russian. English summary) (Not in MR)
Collins, R. Geostationary orbits around a rotating rigid body of arbitrary shape. **89m:70065**
Èrgasheva, M. È. *see* **Barkin, Yu. V., (89g:70002)**
Kopeĭkin, S. M. *see* **Brumberg, V. A.,** (Not in MR)
Martynova, N. F. Structure of the solution in a nonlinear problem of the motion of a satellite with respect to the center of mass. (Russian) **89c:70062**
Melvin, Peter J. The figure-of-8 librations of the gravity gradient pendulum and modes of an orbiting tether. **89j:70042**
Morkov, B. I. A method for investigating the equation of motion of a satellite under the action of small thrust. (Russian) **89i:70042**
Wnuk, Edwin Tesseral harmonic perturbations for high order and degree harmonics. **89k:70051**

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Ambrosetti, Antonio (*with* Coti Zelati, Vittorio) Solutions périodiques sans collision pour une classe de potentiels de type keplerien. (English summary) [Noncollision periodic orbits for a class of Keplerian potentials] **89h:70004**
Barkin, Yu. V. (*with* Pankratov, A. A.) The planar motion of a satellite in a gravitation field of a rotating nonspherical planet. (Russian) (*see* **89g:70002**)
Battin, Richard H. ★ An introduction to the mathematics and methods of astrodynamics. **89c:70001**
Chesser, H. G. (*with* Rimrott, F. P. J.) Attitude drift of torque-free flexible gyros using the viscous damping model. **89k:70015**
Coti Zelati, Vittorio *see* **Ambrosetti, Antonio, 89h:70004**
Dang Dinh Hai On a second order periodic boundary value problem. **89g:34022**
Kirchgraber, U. An ODE-solver based on the method of averaging. **89k:65086**
Pankratov, A. A. *see* **Barkin, Yu. V., (89g:70002)**
Panov, A. P. Optimization, with respect to responsiveness, of algorithms for the computation of quaternions in the case of precession of a cosmic apparatus. (Russian) (*see* **89i:70003**)
(Przemieniecki, J. S.) *see* **Battin, Richard H., 89c:70001**
Rimrott, F. P. J. *see* **Chesser, H. G., 89k:70015**
Rubanovskiĭ, V. N. Relative equilibria of a satellite-gyrostat, their branchings and stability. (Russian) **89m:70005**
Salat, A. Non-KAM Hamiltonians. **89g:58078**
Sazonov, V. V. A mechanism for the loss of stability of the gravitational orientation mode of a satellite. (Russian) **89i:70029**

70M10 Orbital stability

Items with secondary classifications in 70M10

Collins, R. Geostationary orbits around a rotating rigid body of arbitrary shape. **89m:70065**

70M99 None of the above, but in this section

Giurgiu, Ioachim *see* **Mioc, Vasile; et al., (89f:00016)**
Mioc, Vasile (*with* Pál, Árpád; Giurgiu, Ioachim) A method for studying the orbital motion with changing gravitational parameter. (*see* **89f:00016**)
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Beletskaya, N. V. *see* **Samsonov, V. A., 89f:70009**
Novoselov, V. S. A model for an antagonistic game in a gravitational field. (Russian) **89h:90285**
Samsonov, V. A. (*with* Beletskaya, N. V.) On the problem of the stability of the relative equilibrium of a rigid body with elastic rods. (Russian) **89f:70009**
Yaroshevskiĭ, V. A. Trajectories for atmosphere reentry. Control of trajectory motion. (Russian) **89f:70037**

70N05 Exterior ballistics

Yaroshevskiĭ, V. A. Trajectories for atmosphere reentry. Control of trajectory motion. (Russian) **89f:70037**

70P05 Variable mass, rockets

Agop, M. Les lois de la variation de la masse avec le temps. La corrélation masse-distance. (English summary) [The laws of mass variation in time, and the mass-distance correlation] **89f:70038**
Gokhman, A. V. Tensor equations of the motion of a mass point of variable mass. (Russian) (*see* **89a:53001**)
Obădeanu, V. Applications de formes différentielles extérieures en dynamique du point à masse variable. (English summary) [Applications of exterior differential forms in the dynamics of a variable mass point] **89f:70039**
Oliveri, E. Considerations on the equation of motion of particles with variable mass and reducibility of the theorem of barycenter motion to the classical form. (Italian) **89m:70066**

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Bekov, A. A. Integrable cases of the Hamilton-Jacobi equations and dynamic systems reducible to canonical form. **89c:70033**
— A restricted rectilinear three-body problem with variable masses, and its rigorous solution. (Russian. Kazakh summary) **89e:70013**
— Integrable cases of the Hamilton-Jacobi equation and the restricted, rectilinear three-body problem with variable mass. **89d:70017**
— (*with* Mukhametkalieva, R. K.) Stability of points of libration in the restricted variable-mass three-body problem. (Russian) **89k:70022**
Ghori, Q. K. Equations of motion of nonlinear nonholonomic systems with variable masses. **89g:70011**
Mukhametkalieva, R. K. *see* **Bekov, A. A., 89k:70022**
Novoselov, V. S. A model for an antagonistic game in a gravitational field. (Russian) **89h:90285**
Pignedoli, Antonio Variational equations associated with the problem of motion of a body with variable mass and quasigyroscopic structure, free in space. (Italian) **89k:70014**

70Q05 Control of mechanical systems [see also 49Exx, 90D25, 90D26, 93Cxx, 93Dxx]

Ahmed, N. U. *see* **Biswas, Saroj K., 89m:70067**
Anderson, Gary L. (*with* Tadjbakhsh, I. G.) Stabilization of Ziegler's pendulum by means of the method of vibrational control. **89f:70040**
Atanasov, V. A. (*with* Lilov, L. K.) Stabilizability of steady motions of systems with pseudocyclic coordinates. (Russian) **89k:70052**
Avramenko, L. G. (*with* Bordyug, B. A.; Larin, V. B.) Problems on the determination of the orientation of a rigid body. (Russian) **89e:70027**
Biswas, Saroj K. (*with* Ahmed, N. U.) Optimal control of large space structures governed by a coupled system of ordinary and partial differential equations. **89m:70067**
Bolotin, Yu. V. Duality in a problem of the optimal distribution of forces for the control of mechanical systems. (Russian. English summary) **89c:70063**
Bordyug, B. A. (*with* Larin, V. B.) Control of the motion of a quadrupedal walking apparatus. (Russian) **89f:70041**
— *see also* **Avramenko, L. G.; et al., 89e:70027**
Brockett, R. W. (*with* Loncaric, Josip) The geometry of compliance programming. **89c:70064**
Chernous′ko, F. L. Construction of constrained control in oscillatory systems. (Russian) **89m:70068**
Gorbachëv, N. V. (*with* Safonov, A. V.) Optimal control and inverse problems of dynamics. (Russian. English summary) **89c:70065**
Hashimoto, Takayuki *see* **Ojika, Takeo; et al., 89f:70042**
Izumoto, Yoshiro *see* **Ojika, Takeo; et al., 89f:70042**
Kirichenko, N. F. Algorithms for the adaptive control of manipulated robots. (Russian) **89k:70053**
Krut′ko, P. D. (*with* Lakota, N. A.) Algorithms for the trajectory control of the movement of manipulation robots. (Russian) **89h:70011**
Lakota, N. A. *see* **Krut′ko, P. D., 89h:70011**
Larin, V. B. *see* **Avramenko, L. G.; et al., 89e:70027** *and* **Bordyug, B. A., 89f:70041**
Li, Hon Su (*with* Li, Mi Sun) Terminal control problem of the rotation of the heavy rigid body. (Korean. English summary) **89m:70069**
Li, Mi Sun *see* **Li, Hon Su, 89m:70069**
Lilov, L. K. *see* **Atanasov, V. A., 89k:70052**
Loncaric, Josip *see* **Brockett, R. W., 89c:70064**
Nakazumi, Akira *see* **Ojika, Takeo; et al., 89f:70042**
Ojika, Takeo (*with* Hashimoto, Takayuki; Izumoto, Yoshiro; Nakazumi, Akira) Bang-bang control of rotating rigid body suspended by wire. (Japanese summary) **89f:70042**
Opeĭko, A. F. Control of the motion of a rigid body. (Russian) (Not in MR)
Safonov, A. V. *see* **Gorbachëv, N. V., 89c:70065**
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Tadjbakhsh, I. G. *see* **Anderson, Gary L., 89f:70040**
Tang, Jian Zhong (*with* Yang, Gong Pu; Yang, Han He) Model following adaptive control of robot manipulator dynamics. (Chinese. English summary) (Not in MR)
Walden, Rainer Aircraft trajectory optimization by curvature control. **89m:70070**
Yang, Gong Pu *see* **Tang, Jian Zhong; et al.,** (Not in MR)
Yang, Han He *see* **Tang, Jian Zhong; et al.,** (Not in MR)
Yoshimoto, Tadashi (*with* Sakawa, Yoshiyuki) Modelling and control of a rotary crane with a flexible joint. **89k:70054**

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Aĭsagaliev, S. A. *see* **Dzholdasbekov, U. A., 89a:49031**
Arefin, I. G. Stabilization of the programmed motions of a manipulation robot on the basis of the recurrent form of the equations of motion. (Russian. English summary) **89a:70003**
Artyushenko, M. V. Control of the kinematic parameters of motion of a rigid body on the basis of visual information. (Russian) (Not in MR)
Bryson, Arthur E., Jr. *see* **Wie, Bong, 89k:73055**
Butkovskiĭ, A. G. Dynamic systems with control, and an optical-mechanical analogy. **89m:70027**
Cherchas, Dale B. *see* **Marchand, Pauline A.; et al.,** (Not in MR)
Dzholdasbekov, U. A. (*with* Aĭsagaliev, S. A.) On the investigation of the dynamics of the control of robots. Stabilization of motion. (Russian. Kazakh summary) **89a:49031**
Giesy, Daniel P. *see* **Schy, Albert A., (89f:90171)**
Haymond, Robert E. (*with* Thornton, John R.; Warner, Daniel D.) A shortest path algorithm in robotics and its implementation on the FPS T-20 hypercube. (Not in MR)
Khoroshilov, V. S. *see* **Zakrzhevskiĭ, A. E., 89k:49027**
Kolmanovskiĭ, V. B. On the stabilization of certain nonlinear systems. **89i:93089**
Koval′skiĭ, I. P. Stabilization of the motion of a solid body of variable structure with a fixed point. (Russian) **89k:70007**
Krasinskiĭ, A. Ya. (*with* Ronzhin, V. V.) On stabilization of steady motions of mechanical systems with cyclic coordinates. (Russian) **89k:70025**
Lagnese, J. (*with* Lions, J.-L.) ★ Modelling analysis and control of thin plates. **89k:73001**
Lawrence, Peter D. *see* **Marchand, Pauline A.; et al.,** (Not in MR)
Leipholz, H. H. E. On the occurrence of nonselfadjointness in the control of elastic structures. **89f:73062**
Lin, Li Chang (*with* Yüan, Ching) An external linearization approach to the control of industrial robots with flexible joints. (Chinese summary) (Not in MR)
Lions, J.-L. *see* **Lagnese, J., 89k:73001**
Long, F. X. *see* **Yang, J. N.; et al., 89j:73076**
Marchand, Pauline A. (*with* Lawrence, Peter D.; Cherchas, Dale B.) A discrete-time optimal adaptive control law for a robot arm. (Not in MR)
Medvedev, G. N. (*with* Morgunov, B. I.) Oscillatory modes of some nonlinear systems with a distributed delay. (Russian) **89k:70005**
Miyasato, Yoshihiko (*with* Oshima, Yasujiro) Nonlinear adaptive control for robotic manipulators with continuous control inputs. (Not in MR)
Morgunov, B. I. *see* **Medvedev, G. N., 89k:70005**
Oshima, Yasujiro *see* **Miyasato, Yoshihiko,** (Not in MR)
Pyatnitskiĭ, E. S. The decomposition principle in the control of mechanical systems. **89j:49028**
Ronzhin, V. V. *see* **Krasinskiĭ, A. Ya., 89k:70025**
Sakawa, Yoshiyuki *see* **Sato, Kiminori, 89k:93149**
Sato, Kiminori (*with* Sakawa, Yoshiyuki) Modelling and control of a flexible rotary crane. **89k:93149**
Schy, Albert A. (*with* Giesy, Daniel P.) Multicriteria optimization methods for design of aircraft control systems. (*see* **89f:90171**)
Sławianowski, J. J. Nonlinear torsional vibrations of rigid bodies. (Russian and Polish summaries) **89j:70009**
Thornton, John R. *see* **Haymond, Robert E.; et al.,** (Not in MR)
Warczyński, Jarosław (*with* Wróblewski, Waldemar) Inverse dynamics algorithm for robot manipulators. **89k:93152**
Warner, Daniel D. *see* **Haymond, Robert E.; et al.,** (Not in MR)
Wie, Bong (*with* Bryson, Arthur E., Jr.) Pole-zero modeling of flexible space structures. **89k:73055**
Wong, D. *see* **Yang, J. N.; et al., 89j:73076**
Wróblewski, Waldemar *see* **Warczyński, Jarosław, 89k:93152**
Yang, J. N. (*with* Long, F. X.; Wong, D.) Optimal control of nonlinear structures. **89j:73076**
Yaroshevskiĭ, V. A. Trajectories for atmosphere reentry. Control of trajectory motion. (Russian) **89f:70037**
Yedavalli, Rama K. Robust nonlinear computed torque control for robot manipulators. **89j:70004**
Yüan, Ching *see* **Lin, Li Chang,** (Not in MR)
Zakrzhevskiĭ, A. E. (*with* Khoroshilov, V. S.) An approach to truncation of the dimension in a mathematical model of a solid body with internal degrees of freedom. **89k:49027**

73–XX Mechanics of solids

73–01 Elementary exposition; textbooks

Gorman, D. G. (*with* Kennedy, William) ★ Applied solid dynamics. **89h:73001**
(Grigolyuk, È. I.) *see* **Hahn, Hans Georg, 89f:73001**
Gubanova, I. I. *see* **Panovko, Ya. G., 89f:73002**
Hahn, Hans Georg ★ Теория упругости. (Russian) [Elasticity theory] **89f:73001**
Kennedy, William *see* **Gorman, D. G., 89h:73001**
(Kogan, E. A.) *see* **Hahn, Hans Georg, 89f:73001**
Panovko, Ya. G. (*with* Gubanova, I. I.) ★ Устойчивость и колебания упругих систем. (Russian) [Stability and vibrations of elastic systems] **89f:73002**
Patiño, Jorge ★ Introdução à teoria da elasticidade. (Portuguese) [Introduction to the theory of elasticity] **89i:73001**

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(Germain, P.) *see* **Obala, J., 89i:00013**
Obala, J. ★ Exercices et problèmes de mécanique des milieux continus. (French) [Exercises and problems in the mechanics of continuous media] **89i:00013**
Pleshchinskiĭ, N. B. ★ Приложения теории интегральных уравнений с логарифмическими и степенными ядрами. (Russian) [Applications of the theory of integral equations with logarithmic and power kernels] **89a:45009**

73–02 Advanced exposition (research surveys, monographs, etc.)

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Oden, J. T. *see* **Kikuchi, Noboru, 89j:73097**
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73–05 Experimental papers

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73–06 Proceedings, conferences, etc.

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(Du, Qing Hua) *see* **Boundary elements, 89f:73003**
(Il′gamov, M. A.) *see* **Statics and dynamics of flexible systems, 89b:73002**
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(Spencer, A. J. M.) *see* **Applications of tensor functions in solid mechanics, 89m:73002**

(Srivastav, Ram P.) *see* **Constitutive models of deformation, 89f:73004**

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73–08 Computational methods

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Kechter, G. E. *see* **Achenbach, J. D.; et al., 89g:73002**

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Namburu, Raju R. *see* **Tamma, Kumar K., 89j:73008**

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Ombe, Hitoshi *see* **Mandel, Jan, 89j:73006**

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Quigley, C. J. *see* **Johnson, Arthur R., 89c:73004**

Rajagopal, K. R. *see* **Cruse, T. A.; et al., 89g:73003**

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Strang, Gilbert *see* **Storch, Joel, 89g:73007**

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Tang, Wei Feng (*with* Brebbia, Carlos Alberto; Telles, J. C. F.) A generalized approach to transfer the domain integrals onto boundary ones for potential problems in BEM. (*see* **89e:00008**)

Telles, J. C. F. *see* **Tang, Wei Feng; et al.**, (**89e:00008**)

Temam, Roger *see* **Stephan, Y.**, (**89c:73030**)

Theotokoglou, E. N. Modified trapezoidal quadratures and accurate potential evaluation for numerical solutions of SIEs on the unit circle. **89g:73008**

Thompson, G. M. *see* **Whiteman, J. R., 89e:73006**

Tirmizi, S. I. A. *see* **Noor, Muhammad Aslam**, (Not in MR)

Vasin, V. V. On a justification for the projection-grid method and for the numerical procedures for stationary problems in thermoelasticity. (Russian) **89m:73004**

Venkatesh, A. *see* **Jirousek, J., 89j:73005**

Whiteman, J. R. (*with* Thompson, G. M.) Finite element calculation of a path integral for nonlinear fracture. **89e:73006**

Winnicki, I. *see* **Idczak, Włodzimierz, 89d:73001**

Wu, Y.-T. *see* **Cruse, T. A.; et al., 89g:73003**

Xu, Yong Lin *see* **Achenbach, J. D.; et al., 89g:73002**

Zakradze, M. V. (*with* Koblishvili, N. I.) An algorithm for the numerical solution of some direct dynamic problems in elasticity theory. (Russian) (Not in MR)

Zang, Weilin (*with* Gudmundson, Peter) A boundary integral method for internal piecewise smooth crack problems. (French summary) **89i:73010**

Zhang, Xiang Lin *see* **Li, Wen Long, 89m:73003**

Zienkiewicz, O. C. (*with* Lefebvre, Dominique) Mixed methods for F.E.M. and the patch test; some recent developments. **89h:73003**

Zouain, N. *see* **Feijóo, R. A., 89e:73002**

tems listed otherwise than by author

Betech 86 ★ Betech 86. **89a:73003**

Cambridge, Mass. ★ Betech 86. **89a:73003**

Conference:

Boundary element technology ★ Betech 86. **89a:73003**

tems with secondary classifications in 73–08

laylioglu, Ayse A finite element code for thin plate dynamics. (Not in MR)

miro, I. Ya. (*with* Zarutskiĭ, V. A.; Revutskiĭ, V. N.; Skosarenko, Yu. V.; Telalov, A. I.; Fialko, S. Yu.) ★ Колебания ребристых оболочек вращения. (Russian) [Vibrations of ribbed shells of revolution] **89h:73034**

ndriankin, È. I. (*with* Andrushchenko, V. A.; Kholin, N. N.) Numerical methods for solving three-dimensional time-dependent problems of the dynamics of elastoplastic media. (Russian) **89k:73027**

Andrushchenko, V. A. *see* **Andriankin, È. I.; et al., 89k:73027**

Anwar, Mohamed Naim Yehia (*with* Sherief, H. H.) Boundary integral equation formulation of generalized thermoelasticity in a Laplace-transform domain. **89a:73060**

Apanovich, V. N. A condition for external approximations by finite elements of generalized solutions of boundary value problems in mechanics. (Russian) **89b:65256**

Arnold, D. N. (*with* Falk, Richard S.) A new mixed formulation for elasticity. **89f:73020**

Babuška, I. *see* **Jensen, Soren S., 89m:65101**

Badalov, F. B. (*with* Khashimov, Zh.) ★ Решение неоднородных и нелинейных краевых задач теории пластин и оболочек методом сведения к задачам Коши. (Russian) [Solution of nonhomogeneous and nonlinear boundary value problems in the theory of plates and shells by the method of reduction to Cauchy problems] **89k:73044**

(**Banichuk, N. V.**) *see* **Haug, Edward J.; et al., 89i:73062**

(**Belotserkovskiĭ, O. M.**) *see* **Magomedov, K. M., 89m:65001**

Belotserkovskiĭ, S. M. (*with* Lifanov, I. K.; Soldatov, M. M.) The method of discrete singularities in plane problems of the theory of elasticity with nonsmooth boundaries. **89c:73011**

Boborykin, V. G. On the solution of finite-dimensional analogues for some contact problems in elasticity theory with friction. (Russian) (*see* **89f:00011**)

Bourgat, J.-F. (*with* Le Tallec, Patrick; Mani, S.) Modélisation et calcul des grands déplacements de tuyaux élastiques en flexion-torsion. (English summary) [Numerical simulation of the large displacements of elastic pipes in flexion and torsion] **89m:73021**

Brebbia, Carlos Alberto (*with* Telles, J. C. F.; Wrobel, L. C.) ★ Методы граничных элементов. (Russian) [Boundary element techniques] **89i:65002**

Brilla, Jozef Laplace transform-boundary element method for time dependent problems (invited contribution). **89i:73036**

Burguera, M. (*with* Viaño Rey, Juan M.) A numerical method for the unilateral contact problem with perfect plasticity. **89i:73069**

Calderón, Alberto Pedro *see* **Santos, Juan Enrique; et al., 89b:65277**

Camp, C. V. *see* **Gipson, G. S.**, (**89f:65003**)

Carcione, J. M. (*with* Kosloff, D.; Kosloff, R.) Wave-propagation simulation in an elastic anisotropic (transversely isotropic) solid. **89h:73018**

Carey, G. F. *see* **MacKinnon, R. J., 89g:76009**

Choi, Kyung K. *see* **Haug, Edward J.; et al., 89i:73061** *and* **89i:73062**

Costabel, M. (*with* Stephan, E. P.) Coupling of finite elements and boundary elements for transmission problems of elastic waves in $\mathbf{R}^3$. **89c:73025**

— (*with* Stephan, E. P.) Coupling of finite elements and boundary elements for inhomogeneous transmission problems in $\mathbf{R}^3$. (*see* **89c:65004**)

Cruse, T. A. ★ Boundary element analysis in computational fracture mechanics. **89h:65176**

— *see also* **Advanced boundary element methods, 89b:65009**

Davet, Jean-Louis Correction du second ordre pour le calcul des fréquences propres d'une plaque en flexion. (English summary) [A second-order correction formula for the eigenfrequencies of a bending plate] **89j:73067**

De Luca, P. *see* **LeRoux, A. Y.**, (**89j:35007**)

Douglas, Jim, Jr. *see* **Santos, Juan Enrique; et al., 89b:65277**

Dowell, Earl H. (*with* Il'gamov, M. A.) ★ Studies in nonlinear aeroelasticity. **89k:73037**

Esmersoy, Cengiz *see* **Levy, Bernard C., 89j:73039**

Falk, Richard S. *see* **Arnold, D. N., 89f:73020**

Feijóo, R. A. (*with* Zouain, N.) Variational formulations for rates and increments in plasticity. **89f:73027**

Fialko, S. Yu. *see* **Amiro, I. Ya.; et al., 89h:73034**

Franca, Leopoldo P. (*with* Hughes, Thomas J. R.; Loula, Abimael F. D.; Miranda, Isidoro) A new family of stable elements for nearly incompressible elasticity based on a mixed Petrov-Galerkin finite element formulation. **89f:65122**

Galanov, B. A. (*with* Krivonos, Yu. M.) The method of nonlinear boundary equations and its numerical realization in three-dimensional contact problems in elasticity theory with a free boundary. (Russian) **89j:73096**

Galiev, Sh. U. ★ Нелинейные волны в ограниченных сплошных средах. (Russian) [Nonlinear waves in bounded continua] **89i:73042**

Gelin, J. C. (*with* Picart, P.) Use of quasi-Newton methods for large strain elastic-plastic finite element computations. **89d:73022**

Giorkhelidze, D. Sh. *see* **Valishvili, N. V.; et al.**, (**89j:00031**)

Gipson, G. S. (*with* Camp, C. V.) Effective use of Monte Carlo quadrature for body force integrals occurring in the integral form of elastostatics. (*see* **89f:65003**)

Gomilko, A. M. (*with* Grinchenko, V. T.; Meleshko, V. V.) On the possibilities of a method of homogeneous solutions in a mixed problem in elasticity theory for a semistrip. (Russian) **89j:73015**

Griffin, T. B. (*with* Reddy, B. D.; Martin, John B.) A numerical study of holonomic approximations to problems in plasticity. **89b:73018**

(**Grigolyuk, È. I.**) *see* **Brebbia, Carlos Alberto; et al., 89i:65002**

Grigorenko, Ya. M. Numerical solution of differential equations in the theory of shells with different formulations. (Russian) (*see* **89j:00031**)

— (*with* Kryukov, N. N.) ★ Численное решение задач статики гибких слоистых оболочек с переменными параметрами. (Russian) [Numerical solution of problems of the statics of flexible layered shells with variable parameters] **89j:73086**

Grinchenko, V. T. *see* **Gomilko, A. M.; et al., 89j:73015**

Gudramovich, V. S. *see* **Mossakovskiĭ, V. I.; et al., 89j:73100**

(**Haario, H.**) *see* **Theory and applications of inverse problems, 89c:00029**

Hackbusch, Wolfgang The panel clustering technique for the boundary element method (invited contribution). **89i:76011**

Haug, Edward J. (*with* Choi, Kyung K.; Komkov, V.) ★ Design sensitivity analysis of structural systems. **89i:73061**

— (*with* Choi, Kyung K.; Komkov, V.) ★ Анализ чувствительности при проектировании конструкций. (Russian) [Sensitivity analysis in the design of structures] **89i:73062**

Heng, Z. Boundary element study of an anisotropic plate. **89d:73034**

(**Hinton, E.**) *see* **Computational plasticity, 89c:73030**

Hsiao, G. C. Boundary element methods for a class of exterior singular perturbation problems. **89g:76008**

Hu, Hai Chang *see* **Su, Xian Yue; et al., 89b:73032** *and* **Shen, Xin Zhuo, 89h:73008**

Hughes, Thomas J. R. *see* **Franca, Leopoldo P.; et al., 89f:65122**

Il'gamov, M. A. *see* **Dowell, Earl H., 89k:73037**
(Ivanova, S. Yu.) *see* **Haug, Edward J.; et al., 89i:73062**
Jensen, Soren S. (*with* Babuška, I.) Dimensional reduction for nonlinear boundary value problems. **89m:65101**
Kalinin, V. M. *see* **Voĭtsekhovskiĭ, S. A.; et al., 89b:65244**
Kalker, J. J. Contact mechanical algorithms. **89c:73084**
Kal'ts, A. L. *see* **Zhubaev, N. Zh.; et al., 89g:73015**
Karymsakov, K. U. *see* **Zhubaev, N. Zh.; et al., 89g:73015**
Khashimov, Zh. *see* **Badalov, F. B., 89k:73044**
Kholin, N. N. *see* **Andriankin, È. I.; et al., 89k:73027**
Kholodov, A. S. *see* **Magomedov, K. M., 89m:65001**
Khutoryanskiĭ, N. M. The method of boundary-time elements in three-dimensional nonstationary problems of diffraction of elastic waves. (Russian) **89k:73022**
Kikuchi, Noboru (*with* Oden, J. T.) ★ Contact problems in elasticity: a study of variational inequalities and finite element methods. **89j:73097**
Kim, V. T. *see* **Zhubaev, N. Zh.; et al., 89g:73015**
Kočvara, Michal (*with* Mandel, Jan) A multigrid method for three-dimensional elasticity and algebraic convergence estimates. **89b:65268**
Komkov, V. *see* **Haug, Edward J.; et al., 89i:73061** *and* **89i:73062**
Kononenko, N. I. Numerical integration of a system of differential equations of the bending of a toroidal shell. (Russian) (*see* **89f:00011**)
(Korneĭchuk, L. G.) *see* **Brebbia, Carlos Alberto; et al., 89i:65002**
Kosloff, D. *see* **Carcione, J. M.; et al., 89h:73018**
Kosloff, R. *see* **Carcione, J. M.; et al., 89h:73018**
Kozhabekov, Zh. T. *see* **Zhubaev, N. Zh.; et al., 89g:73015**
Krivonos, Yu. M. *see* **Galanov, B. A., 89j:73096**
Kryukov, N. N. *see* **Grigorenko, Ya. M., 89j:73086**
Kustovskiĭ, V. D. (*with* Shikhvatov, A. M.) A coordinate system for cupola-shaped shells. (Russian) **89g:73040**
Ladopoulos, E. G. On the numerical solution of the finite-part singular integral equations of the first and the second kind used in fracture mechanics. **89c:73071**
(Larichev, A. D.) *see* **Haug, Edward J.; et al., 89i:73062**
LeRoux, A. Y. (*with* De Luca, P.) A velocity-pressure model for elastodynamics. (*see* **89j:35007**)
Le Tallec, Patrick Numerical solution of viscoplastic flow problems by augmented Lagrangians. **89k:73032**
— (*with* Lotfi, A.) Decomposition methods for adherence problems in finite elasticity. **89i:73070**
— *see also* **Bourgat, J.-F.; et al., 89m:73021**
Levy, Bernard C. (*with* Esmersoy, Cengiz) Variable background Born inversion by wavefield backpropagation. **89j:73039**
Li, Fang Zhong (*with* Needleman, A.; Shih, C. F.) Creep crack growth by grain boundary cavitation: crack tip fields and crack growth rates under transient conditions. (French summary) **89j:73090**
Lifanov, I. K. *see* **Belotserkovskiĭ, S. M.; et al., 89c:73011**
Lotfi, A. *see* **Le Tallec, Patrick, 89i:73070**
Loula, Abimael F. D. *see* **Franca, Leopoldo P.; et al., 89f:65122**
MacKinnon, R. J. (*with* Carey, G. F.) Analysis of material interface discontinuities and superconvergent fluxes in finite difference theory. **89g:76009**
Magomedov, K. M. (*with* Kholodov, A. S.) ★ Сеточно-характеристические численные методы. (Russian) [Difference-characteristic numerical methods] **89m:65001**
Makarov, Vladimir Leonidovich *see* **Voĭtsekhovskiĭ, S. A.; et al., 89b:65244**
Makeev, E. M. *see* **Mossakovskiĭ, V. I.; et al., 89j:73100**
Mandel, Jan *see* **Kočvara, Michal, 89b:65268**
Mani, S. *see* **Bourgat, J.-F.; et al., 89m:73021**
Martin, John B. *see* **Griffin, T. B.; et al., 89b:73018**
Matthies, Hermann G. A decomposition method for the integration of the elastic-plastic rate problem. **89k:73028**
Meleshko, V. V. *see* **Gomilko, A. M.; et al., 89j:73015**
Miranda, Isidoro *see* **Franca, Leopoldo P.; et al., 89f:65122**
Morelle, P. A finite element lower bound formulation for thermomechanical shakedown analysis of continua with variable yield stress. **89i:73030**
Mossakovskiĭ, V. I. (*with* Gudramovich, V. S.; Makeev, E. M.) ★ Контактные взаимодействия элементов оболочечных конструкций. (Russian) [Contact interactions of elements of shell constructions] **89j:73100**
Nayfeh, Ali Hasan Numerical-perturbation methods in mechanics. **89i:70037**
Nédélec, Jean-Claude The double layer potential for periodic elastic waves in $\mathbf{R}^3$. **89j:73034**
Needleman, A. *see* **Li, Fang Zhong; et al., 89j:73090**
Noor, Muhammad Aslam (*with* Tirmizi, S. I. A.) Numerical techniques for a class of unilateral problems. (Not in MR)
Nurzhanova, Sh. Zh. *see* **Zhubaev, N. Zh.; et al., 89g:73015**
Nzengwa, Robert Incremental methods in nonlinear three-dimensional, incompressible elasticity. (French summary) **89j:73023**
Oden, J. T. *see* **Kikuchi, Noboru, 89j:73097**
(Oñate, E.) *see* **Computational plasticity, 89c:73030**
(Owen, D. R. J.) *see* **Computational plasticity, 89c:73030**
Panagiotopoulos, P. D. Multivalued boundary integral equations for inequality problems. The convex case. **89d:73051**
Pellegrino, S. "Upper-bound" plastic collapse analysis of frameworks. (*see* **89c:73030**)
Picart, P. *see* **Gelin, J. C., 89d:73022**
Rathod, H. T. Some analytical integration formulae for a four node isoparametric element. **89i:73056**
Reddy, B. D. *see* **Griffin, T. B.; et al., 89b:73018**
Revutskiĭ, V. N. *see* **Amiro, I. Ya.; et al., 89h:73034**
Rieder, Georg On the spectrum of certain integral operators and its utilization for BEM in elasticity. (*see* **89f:65003**)
Ryaben'kiĭ, V. S. ★ Метод разностных потенциалов для некоторых задач механики сплошных сред. (Russian) [The method of difference potentials for some problems of continuum mechanics] **89h:65154**
Santos, Juan Enrique (*with* Douglas, Jim, Jr.; Calderón, Alberto Pedro) Finite element methods for a composite model in elastodynamics. **89b:65277**
Sarsenov, B. Sh. *see* **Zhubaev, N. Zh.; et al., 89g:73015**
Schroeder, W. J. (*with* Shephard, M. S.) Geometry-based fully automatic mesh generation and the Delaunay triangulation. **89m:51003**
Schwab, C. H. (*with* Wendland, W.) 3D BEM numerical integration. (*see* **89f:65003**)
Shalashilin, V. I. Optimization of the parameter of continuation of the solution of the equations of nonlinear deformation of elastic systems. (Russian) **89f:73061**
Shen, Xin Zhuo (*with* Hu, Hai Chang) A new boundary integral equation for plane harmonic functions. **89h:73008**
Shephard, M. S. *see* **Schroeder, W. J., 89m:51003**
Sherief, H. H. *see* **Anwar, Mohamed Naim Yehia, 89a:73060**
Shih, C. F. *see* **Li, Fang Zhong; et al., 89j:73090**
Shikhvatov, A. M. *see* **Kustovskiĭ, V. D., 89g:73040**
Simitses, George J. *see* **Stubstad, John M., 89i:73041**
Simo, J. C. (*with* Vu-Quoc, L.) On the dynamics in space of rods undergoing large motions—a geometrically exact approach. **89a:73045**
Sinyaev, A. Ya. *see* **Zhubaev, N. Zh.; et al., 89g:73015**
Skosarenko, Yu. V. *see* **Amiro, I. Ya.; et al., 89h:73034**
Sochacki, James Absorbing boundary conditions for the elastic wave equations. **89h:73021**
Soldatov, M. M. *see* **Belotserkovskiĭ, S. M.; et al., 89c:73011**
Song, Wei Ping The Newton-spline function method in the nonlinear theory of rotating thin shells. (Chinese) (Not in MR)
Stenberg, R. Two low-order mixed methods for the elasticity problem. **89j:73074**
— A family of mixed finite elements for the elasticity problem. **89h:65192**
Stephan, E. P. *see* **Costabel, M., 89c:73025** *and* (**89c:65004**)
Strebkov, E. V. A difference scheme for a problem on the equilibrium of an elastic body of revolution. **89f:65109**
Stubstad, John M. (*with* Simitses, George J.) Solution methods for one-dimensional viscoelastic problems. **89i:73041**
Su, Xian Yue (*with* Wu, Ji Ke; Hu, Hai Chang) Large-displacement analysis of thin shells of revolution. **89b:73032**
Telalov, A. I. *see* **Amiro, I. Ya.; et al., 89h:73034**
Telles, J. C. F. *see* **Brebbia, Carlos Alberto; et al., 89i:65002**
Tirmizi, S. I. A. *see* **Noor, Muhammad Aslam**, (Not in MR)
To, C. W. S. Direct integration operators and their stability for random response of multi-degree-of-freedom systems. **89k:73050**
Turekulova, A. N. *see* **Zhubaev, N. Zh.; et al., 89g:73015**
Tvalchrelidze, A. K. *see* **Valishvili, N. V.; et al.,** (**89j:00031**)
Ueda, Sei The inverse problem for the string or rod clamped at both sides. **89i:73052**
Valishvili, N. V. (*with* Giorkhelidze, D. Sh.; Tvalchrelidze, A. K.) A numerical study of nonlinear deformation of shells made of composite materials. (Russian) (*see* **89j:00031**)
Varbanova, E. A. Difference method for the linear dynamical problem of coupled thermoelasticity. **89j:73101**
Vashakmadze, T. S. On the theory of Vekua elastic plates. (Russian. English and Georgian summaries) **89a:73042**
Viaño Rey, Juan M. *see* **Burguera, M., 89i:73069**
Vinogradov, Yu. I. Computational methods and the construction of algorithms for the solution of boundary value problems of structural mechanics. **89g:73039**
Voĭtsekhovskiĭ, S. A. (*with* Kalinin, V. M.; Makarov, Vladimir Leonidovich) An estimate for the rate of convergence of difference schemes for a system of equations of the equilibrium of an inhomogeneous anisotropic elastic solid under conditions of rigid fixing. (Russian) **89b:65244**
Vu-Quoc, L. *see* **Simo, J. C., 89a:73045**
Wendland, W. *see* **Schwab, C. H.,** (**89f:65003**)
White, L. W. Estimation of flexural rigidity in a Kirchhoff plate model. **89j:73079**
Wrobel, L. C. *see* **Brebbia, Carlos Alberto; et al., 89i:65002**
Wu, Ji Ke *see* **Su, Xian Yue; et al., 89b:73032**
Xu, Yue Heng (*with* Yang, Hai Yuan) Subdomain bounding technique for large scale shakedown analysis. **89k:73026**
Yang, Hai Yuan *see* **Xu, Yue Heng, 89k:73026**
Zarutskiĭ, V. A. *see* **Amiro, I. Ya.; et al., 89h:73034**
Zhubaev, N. Zh. (*with* Kal'ts, A. L.; Karymsakov, K. U.; Kim, V. T.; Kozhabekov, Zh. T.; Nurzhanova, Sh. Zh.; Sarsenov, B. Sh.; Sinyaev, A. Ya.; Turekulova, A. N.) ★ Численные методы исследования двухмерных волн напряжений (в упругих и упругопластических средах). (Russian) [Numerical methods for the study of two-dimensional stress waves (in elastic and elastoplastic media)] **89g:73015**
Zieliński, A. P. Treffiz method: elastic and elastoplastic problems. **89d:65103**
Zouain, N. *see* **Feijóo, R. A., 89f:73027**

Items listed otherwise than by author

Advanced boundary element methods ★ Advanced boundary element methods. **89b:65009**
Barcelona ★ Computational plasticity. Part I, II. **89c:73030**
Computational plasticity ★ Computational plasticity. Part I, II. **89c:73030**
Conference:
  Computational Plasticity ★ Computational plasticity. Part I, II. **89c:73030**
Helsinki ★ Theory and applications of inverse problems. **89c:00029**
IUTAM Symposium:
  Advanced Boundary Element Methods ★ Advanced boundary element methods. **89b:65009**
San Antonio, Tex. ★ Advanced boundary element methods. **89b:65009**
Symposium:
  Theory and Applications of Inverse Problems ★ Theory and applications of inverse problems. **89c:00029**
Theory and applications of inverse problems ★ Theory and applications of inverse problems. **89c:00029**

73A05 Axiomatics, foundations

Aaberge, T. Equations of motion for continuum systems. **89f:73006**

Carini, Giovanni On the variational principles in classical continuum mechanics. (Italian. English summary) **89h:73004**
Fosdick, Roger L. (*with* Virga, Epifanio G.) A variational proof of the stress theorem of Cauchy. **89j:73009**
Haupt, P. (*with* Tsakmakis, Ch.) Über duale Variablen in der Kontinuumsmechanik. [On dual variables in continuum mechanics] **89k:73003**
Segev, Reuven On the existence of stresses in continuum mechanics. **89h:73005b**
Tsakmakis, Ch. *see* **Haupt, P., 89k:73003**
Uziembło, Bogdan On the construction of configuration spaces. (Russian summary) **89b:73003**
Virga, Epifanio G. *see* **Fosdick, Roger L., 89j:73009**

Items with secondary classifications in 73A05

Lal, R. N. On fuzzy mechanical structures. I, II. **89f:03051**
Mimura, Fumitake *see* **Nôno, Takayuki, 89f:58047**
Nôno, Takayuki (*with* Mimura, Fumitake) A differential geometric foundation for invariant variational principle in continuum dynamics. (Turkish summary) **89f:58047**

73Bxx Continuum mechanics {For fluids, see 76Axx.}

73B05 Constitutive equations

Betounes, David E. Differential geometric aspects of continuum mechanics in higher dimensions. **89c:73006**
Betten, J. Formulation of anisotropic constitutive equations. (*see* **89m:73002**)
— Interpolation methods for tensor functions. (*see* **89m:73002**)
Boehler, J.-P. Introduction to the invariant formulation of anisotropic constitutive equations. (*see* **89m:73002**)
Dubey, R. N. Choice of tensor-rates—a methodology. **89h:73006**
Kolokol′chikov, V. V. Anisotropy reduced to fictitious isotropy by transformations of tensors in the solution of problems. **89j:73010**
Rivlin, R. S. (*with* Smith, G. F.) A note on material frame indifference. **89c:73007**
Rougée, Paul La variété des formes d'un élément simple et son utilisation dans la formulation lagrangienne intrinsèque du comportement. (English summary) [The manifold of the shapes of a simple material and its use in the intrinsic Lagrangian statement of constitutive laws] **89i:73011**
Smith, G. F. *see* **Rivlin, R. S., 89c:73007**
Spencer, A. J. M. Kinematic constraints, constitutive equations and failure rules for anisotropic materials. (*see* **89m:73002**)
Xing, Jing Tang A note about Oden's constitutive variational principle. **89a:73004**

Items with secondary classifications in 73B05

Aaberge, T. Equations of motion for continuum systems. **89f:73006**
Aifantis, Elias *see* **Kuttler, Kenneth, 89i:35118**
Atluri, S. N. *see* **Im, S.; et al., 89k:73025**
(Betten, J.) *see* **Applications of tensor functions in solid mechanics, 89m:73002**
(Boehler, J.-P.) *see* **Applications of tensor functions in solid mechanics, 89m:73002**
Brilla, Jozef Mathematical aspects of the theory of viscoelasticity. (*see* **89g:58004**)
(Chandra, Jagdish) *see* **Constitutive models of deformation, 89f:73004**
Chandrasekharaiah, D. S. Naghdi-Hsu type solution in elastodynamics. **89m:73011**
Demiray, Hilmi (*with* Dost, S.) A variational formulation of diatomic elastic dielectrics. **89h:73040**
Dost, S. *see* **Demiray, Hilmi, 89h:73040**
Haupt, P. (*with* Tsakmakis, Ch.) Über duale Variablen in der Kontinuumsmechanik. [On dual variables in continuum mechanics] **89k:73003**
Im, S. (*with* Watanabe, O.; Atluri, S. N.) Observations on phenomenological plasticity theories and constitutive modelling of finite deformation elastoplasticity based upon an internal time concept. **89k:73025**
Jeng, Jiann-Hwa *see* **Varadan, Vasundara V.; et al., 89f:73070**
Kuttler, Kenneth (*with* Aifantis, Elias) Quasilinear evolution equations in nonclassical diffusion. **89i:35118**
Maugin, Gérard A. ★ Continuum mechanics of electromagnetic solids. **89i:73004**
Plohr, B. (*with* Sharp, David H.) A conservative Eulerian formulation of the equations for elastic flow. **89k:73006**
Sharp, David H. *see* **Plohr, B., 89k:73006**
(Spencer, A. J. M.) *see* **Applications of tensor functions in solid mechanics, 89m:73002**
(Srivastav, Ram P.) *see* **Constitutive models of deformation, 89f:73004**
Tiersten, H. F. Deformable semiconductors, boundary conditions and the associated constitutive equations. **89m:73032**
Trusov, P. V. On a generalization of Il′yushin's theory of elastoplastic processes to the case of large plastic deformations. (Russian) **89h:73025**
Tsakmakis, Ch. *see* **Haupt, P., 89k:73003**
Varadan, Vasundara V. (*with* Jeng, Jiann-Hwa; Varadan, Vijay K.) Form invariant constitutive relations for transversely isotropic piezoelectric materials. **89f:73070**
Varadan, Vijay K. *see* **Varadan, Vasundara V.; et al., 89f:73070**
Watanabe, O. *see* **Im, S.; et al., 89k:73025**

Items listed otherwise than by author

Applications of tensor functions in solid mechanics ★ Applications of tensor functions in solid mechanics. **89m:73002**
Blacksburg, VA ★ Constitutive models of deformation. **89f:73004**
Constitutive models of deformation ★ Constitutive models of deformation. **89f:73004**
Workshop:
  Constitutive Models ★ Constitutive models of deformation. **89f:73004**

73B10 Isotropic functionals

Boehler, J.-P. Representations for isotropic and anisotropic nonpolynomial tensor functions. (*see* **89m:73002**)
Pennisi, S. (*with* Trovato, M.) On the irreducibility of Professor G. F. Smith's representations for isotropic functions. **89d:73002**
(Smith, G. F.) *see* **Pennisi, S., 89d:73002**
Spencer, A. J. M. Isotropic polynomial invariants and tensor functions. (*see* **89m:73002**)
Trovato, M. *see* **Pennisi, S., 89d:73002**

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Sivaloganathan, J. Implications of rank one convexity. (French summary) **89g:49030**

73B25 Multipolar stress theory

Chadha, T. K. *see* **Kumar, Rajive^{1}, 89d:73003**
Dai, Tian Min (*with* Fu, Min Fu; Lin, Zhong Xiang; Yang, De Pin) Variational methods for the problems of nonconservative force fields in the micropolar elastodynamics. **89c:73008**
Fu, Min Fu *see* **Dai, Tian Min; et al., 89c:73008**
Kumar, Rajive^{1} (*with* Chadha, T. K.) Lamb's plane problem in micropolar elastic half-space with stretch. (Russian summary) **89d:73003**
Lin, Zhong Xiang *see* **Dai, Tian Min; et al., 89c:73008**
Markov, Konstantin Z. Inhomogeneity problem in micropolar elasticity. (Russian summary) **89g:73009**
Musgrave, M. J. P. Stress waves in orthorhombic micropolar media. **89a:73005**
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Buchukuri, T. V. (*with* Gegelia, T. G.) The character of the isolated singularities of the solutions of a system of equations of elasticity theory. (Russian. English and Georgian summaries) **89c:73075**
Chkadua, O. O. (*with* Khamza, F.) Investigation of basic problems of the moment theory of elasticity for anisotropic media. (Russian. English and Georgian summaries) **89h:73012**
Gachechiladze, R. I. *see* **Maisaia, O. I., 89g:73043**
Gegelia, T. G. *see* **Buchukuri, T. V., 89c:73075**
Khamza, F. *see* **Chkadua, O. O., 89h:73012**
Maisaia, O. I. (*with* Gachechiladze, R. I.) The quasireversibility method for contact problems of elasticity theory. (Russian. English and Georgian summaries) **89g:73043**
Meladze, R. V. Solution of the third and fourth boundary value problems of the statics of the moment theory of elasticity for a ball. (Russian. English and Georgian summaries) **89d:73009**

73B30 Thermodynamics of solids [see also 73U05; for gases and fluids, see 80–XX]

Aifantis, Elias *see* **Kuttler, Kenneth, 89m:73006**
Ferrarese, Giorgio On the thermodynamical formulation of relativistic continua. (Italian. English summary) **89m:73005**
Grinfel′d, M. A. (*with* Lazarev, M. P.) Sufficient conditions for the instability of coherent interfaces. **89k:73004**
Hill, J. M. (*with* Willis, J. R.) Analytical aspects of heat flow in random two-component laminates. **89f:73007**
Khoroshun, L. P. On the foundations of the thermomechanics of porous saturated media. **89i:73012**
Kuttler, Kenneth (*with* Aifantis, Elias) Existence and uniqueness in nonclassical diffusion. **89m:73006**
Lazarev, M. P. *see* **Grinfel′d, M. A., 89k:73004**
Noll, Walter (*with* Virga, Epifanio G.) Fit regions and functions of bounded variation. **89k:73005**
Pasquino, Mario The energy criterion for hypoelastic materials. (Italian) **89a:73006**
Plohr, B. (*with* Sharp, David H.) A conservative Eulerian formulation of the equations for elastic flow. **89k:73006**
Racke, Reinhard Uniqueness of weak solutions in linear thermoelasticity. (Russian summary) **89f:73008**
Sharp, David H. *see* **Plohr, B., 89k:73006**
Virga, Epifanio G. *see* **Noll, Walter, 89k:73005**
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Woźniak, Czesław On the modelling of materials and interactions with thermoelectromechanical constraints. (Russian summary) **89b:73004**

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Ball, J. M. (*with* James, Richard Dana) Fine phase mixtures as minimizers of energy. **89c:80005**
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Day, W. A. The efficiency of an irreversible cycle. **89h:80004**
— Parity, and the mechanical energy of a heated body. **89c:73091**
Fabrizio, M. (*with* Morro, A.) Viscoelastic relaxation functions compatible with thermodynamics. **89m:73019**
Fusco, Domenico *see* **Bampi, Franco, 89k:35194**
Gawinecki, Jerzy The Cauchy problem for the linear hyperbolic equations system of the theory of thermoelasticity of the temperature-rate-dependent solids. (Russian summary) **89k:35154**
Gurtin, Morton E. Toward a nonequilibrium thermodynamics of two phase materials with sharp interface. **89c:80009**
— (*with* Hrusa, William J.) On energies for nonlinear viscoelastic materials of single-integral type. **89e:73020**
Hrusa, William J. *see* **Gurtin, Morton E., 89e:73020**
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Luca, Ioana Thermoacoustical waves in linear homogeneous isotropic thermoviscoelastic materials of integral type. **89m:73017**

Maugin, Gérard A. ★ Continuum mechanics of electromagnetic solids. **89i:73004**
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Nagayama, Kunihito An exact solution of the Riemann problem for solids with the Grüneisen equation of state. **89a:73024**
Pérez-García, Carlos *see* **Lebon, G.; et al., 89d:73025**
Pommaret, J.-F. Thermodynamique et théorie des groupes. (English summary) [Thermodynamics and group theory] **89m:35015**
Takagi, Shunsuke Approximate analytical solution of a Stefan's problem in a finite domain. **89i:35135**

73B99 None of the above, but in this section

Betten, J. Invariants of fourth-order tensors. (*see* **89m:73002**)
Cohen, Harley (*with* Wang, Chao Chen) On the stored energy functions of hyperelastic materials with internal constraints. **89h:73007**
Dell'isola, F. (*with* Romano, Antonio) On a general balance law for continua with an interface. **89c:73009**
Felder, Éric Un modèle de frottement solide anisotrope. (English summary) [A model of anisotropic solid friction] **89k:73007**
Fisher, Dawn Conservative configuration dependent loads on bounded surfaces. **89a:73007**
— Configuration dependent pressure potentials. **89m:73007**
Gałka, Andrzej (*with* Naniewicz, Zdzisław; Woźniak, Czesław) On ideal textile-type materials. IV. Examples of solutions. (Russian summary) **89b:73008**
— *see also* **Woźniak, Czesław; et al., 89b:73005; 89b:73006** *and* **Naniewicz, Zdzisław; et al., 89b:73007**
Hayes, Michael On strain and straining. **89d:73004**
Jin, Fu Sheng A practical unified theory for basic problems of continuum mechanics of a certain class (continued)—properties of the basic model. (Chinese. English summary) (Not in MR)
McLeod, J. Bryce (*with* Rajagopal, K. R.; Wineman, A. S.) On the existence of a class of deformations for incompressible isotropic elastic materials. **89m:73008**
Moreau, J.-J. Une formulation du contact à frottement sec; application au calcul numérique. (English summary) [A formulation of contact with dry friction; computational application] **89k:73008**
Naniewicz, Zdzisław (*with* Gałka, Andrzej; Woźniak, Czesław) On ideal textile-type materials. III. Existence problems. (Russian summary) **89b:73007**
— *see also* **Woźniak, Czesław; et al., 89b:73005; 89b:73006** *and* **Gałka, Andrzej; et al., 89b:73008**
Nayroles, B. Functional monotony and diagonal control in synchronous vibration absorption. (French summary) **89c:73010**
Negahban, M. *see* **Wineman, A. S.; et al., 89j:73011**
Orłowska, B. Multilevel model of micro-macro interactions and residual stresses in physical systems. (*see* **89g:58004**)
Podio-Guidugli, P. The Piola-Kirchhoff stress may depend linearly on the deformation gradient. **89a:73008**
Qian, Shu Fu On the additive decomposition of the finite deformation gradient. (Chinese. English summary) (Not in MR)
Rajagopal, K. R. *see* **Wineman, A. S.; et al., 89j:73011** *and* **McLeod, J. Bryce; et al., 89m:73008**
Romano, Antonio *see* **Dell'isola, F., 89c:73009**
Spencer, A. J. M. Anisotropic invariants and additional results for invariant and tensor representations. (*see* **89m:73002**)
Speziale, Charles G. The Einstein equivalence principle, intrinsic spin and the invariance of constitutive equations in continuum mechanics. **89f:73009**
Tosaka, N. New integral formulations for continuum mechanics. **89k:73009**
Wang, Chao Chen *see* **Cohen, Harley, 89h:73007**
Wineman, A. S. (*with* Rajagopal, K. R.; Negahban, M.) Changes in material symmetry associated with deformation: uniaxial extension. **89j:73011**
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Woźniak, Czesław (*with* Gałka, Andrzej; Naniewicz, Zdzisław) On ideal textile-type materials. I. Constitutive modelling. (Russian summary) **89b:73005**
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Berger, B. S. (*with* Rokni, M.) Lyapunov exponents and continuum kinematics. **89c:58073**
Fossa, G. (*with* Maier, Giulio; Masarati, P.; Novati, G.) Boundary element analysis in the presence of dihedral symmetry under general boundary conditions. (*see* **89f:65003**)
Kleinert, H. Fundamental phase space identities for gauge fields in superfluids and solids. **89i:81154**
Kolokol'chikov, V. V. Anisotropy reduced to fictitious isotropy by transformations of tensors in the solution of problems. **89j:73010**
Maier, Giulio *see* **Fossa, G.; et al., (89f:65003)**
Manole, D. Stability of elastic bodies with microstructure. **89k:73035**
Markov, Konstantin Z. On the class of symmetry groups for tensors and tensor functions. (Russian summary) **89g:15039**
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Milton, G. W. Multicomponent composites, electrical networks and new types of continued fraction. I. **89b:82084**
— Multicomponent composites, electrical networks and new types of continued fraction. II. **89b:82085**
Mimura, Fumitake (*with* Nôno, Takayuki) Conservation laws in continuum dynamics. **89m:70036**
Nôno, Takayuki *see* **Mimura, Fumitake, 89m:70036**
Novati, G. *see* **Fossa, G.; et al., (89f:65003)**
Nowinski, J. L. On the Saint-Venant torsion of elastic diatomic bars. **89f:73043**
Rokni, M. *see* **Berger, B. S., 89c:58073**
Russo, Remigio Uniqueness in brittle fracture mechanics. **89d:73043**

Tsypkin, A. G. Construction of models of continua in the special theory of relativity. **89f:83009**

73Cxx Elasticity {For the biharmonic equation, see 31A30, 31B30; for acoustics, see 76Q05.}

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Ciarlet, Philippe G. ★ Mathematical elasticity. Vol. I. **89e:73001**

73C02 Classical linear elasticity

Belotserkovskiĭ, S. M. (*with* Lifanov, I. K.; Soldatov, M. M.) The method of discrete singularities in plane problems of the theory of elasticity with nonsmooth boundaries. **89c:73011**
Chianese, R. B. (*with* Erdlac, R. J.) The general solution to the distribution of stresses in a circular ring compressed by two forces acting along a diameter. **89g:73010**
Chirkunov, Yu. A. *see* **Prudnikov, V. Yu., 89k:73010**
Erdlac, R. J. *see* **Chianese, R. B., 89g:73010**
Guseĭnov, G. G. *see* **Sabel'fel'd, K. K., 89c:73013**
Herrmann, G. *see* **Honein, T., 89i:73013**
Honein, T. (*with* Herrmann, G.) The involution correspondence in plane elastostatics for regions bounded by a circle. **89i:73013**
Hu, Hai Chang *see* **Shen, Xin Zhuo, 89h:73008**
Huang, Yu Ying A direct method for deriving fundamental solution of half-plane problem. (*see* **89f:73003**)
Levin, A. M. Isolation of singularities in the solution of two-dimensional problems of the theory of elasticity in irregular multiply connected domains. **89g:73011**
Lifanov, I. K. *see* **Belotserkovskiĭ, S. M.; et al., 89c:73011**
Maul, J. Perturbation of domains for some nonclassical BVP in elasticity. (German and Russian summaries) **89b:73009**
Naumov, V. V. Solution of two fundamental problems on the equilibrium of an elastic ball in closed form. (Russian) **89d:73005**
Oleĭnik, O. A. Some asymptotic problems of linear elasticity. (*see* **89f:73005**)
Piltner, R. The representation of three-dimensional elastic displacement fields with the aid of complex valued functions for several curvilinear coordinates. **89e:73007**
Podio-Guidugli, P. Load symmetry and energy minimization in Saint-Venant's problem. **89c:73012**
Prudnikov, A. P. *see* **Vlasov, V. I., 89c:73014**
Prudnikov, V. Yu. (*with* Chirkunov, Yu. A.) Group properties of equations in classical elasticity theory. **89k:73010**
Ruppeneĭt, S. K. A new method for constructing power polynomials for solving plane and axisymmetric problems of elasticity theory. (Russian) **89e:73008**
Sabel'fel'd, K. K. (*with* Guseĭnov, G. G.) Solution of the first three-dimensional problem of elasticity theory by the method of random walks on spheres. (Russian) **89c:73013**
Shen, Xin Zhuo (*with* Hu, Hai Chang) A new boundary integral equation for plane harmonic functions. **89h:73008**
Sheremet, V. D. Fundamental solutions of some problems in elasticity theory. **89m:73009**
Shidfar, Afima Abdullah On the Papkovich-Neuber representation of elastostatic displacement fields.
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Vlasov, V. I. (*with* Prudnikov, A. P.) Solution of some boundary value problems in domains with a curvilinear boundary. (Russian) **89c:73014**
Wang, Min Zhong Brebbia's indirect representation and the completeness of Papkovich-Neuber's and Boussinesq-Galerkin's solutions in elasticity. **89c:73015**
— On the completeness of solutions of Boussinesq, Timpe, Love, and Michell in axisymmetric elasticity. **89c:73016**
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Bulavenko, E. V. The Dirichlet problem for an operator of elasticity theory. **89c:35135**
Casalini, P. (*with* Guiggiani, M.) New developments in the boundary element method for plane and axisymmetric elasticity. **89c:73002**
Costabel, M. (*with* Lusikka, I.; Saranen, J.) Comparison of three boundary element approaches for the solution of the clamped plate problem. **89j:73004**
Díaz Díaz, Jesús Ildefonso (*with* Jiménez, Raúl Francisco) Boundary behaviour of solutions of the Signorini problem. I. The elliptic case. (Italian summary) **89f:35090**
(Grigolyuk, È. I.) *see* **Hahn, Hans Georg, 89f:73001**
Guiggiani, M. *see* **Casalini, P., 89c:73002**
Hackl, Klaus (*with* Zastrow, Udo) On the existence, uniqueness and completeness of displacements and stress functions in linear elasticity. **89h:73010**
Hahn, Hans Georg ★ Теория упругости. (Russian) [Elasticity theory] **89f:73001**
Jiménez, Raúl Francisco *see* **Díaz Díaz, Jesús Ildefonso, 89f:35090**
(Kogan, E. A.) *see* **Hahn, Hans Georg, 89f:73001**
Kondrat'ev, V. A. (*with* Oleĭnik, O. A.) Asymptotic properties of solutions of the elasticity system. **89a:35033**
— (*with* Oleĭnik, O. A.) Uniqueness of the solutions of boundary value problems in unbounded domains and isolated singular points of the solutions of a system of elasticity theory and of second-order elliptic equations. (Russian) **89b:35040**
— (*with* Oleĭnik, O. A.) Boundary value problems for a system in elasticity theory in unbounded domains. Korn inequalities. (Russian) **89m:35061**
Lapushkīn, Ī. T. Finite integral transformations in problems for biharmonic equations. (Ukrainian. Russian summary) **89g:73030**
Lusikka, I. *see* **Costabel, M.; et al., 89j:73004**
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Parreira, P. Self-adaptive P-hierarchical boundary elements in elastostatics. **89i:73007**

Patiño, Jorge ★ Introdução à teoria da elasticidade. (Portuguese) [Introduction to the theory of elasticity] **89i:73001**
Russo, Remigio On classical theorems for the dynamics of an infinite homogeneous isotropic elastic body. (Italian. English summary) **89a:73010**
Saranen, J. *see* **Costabel, M.; et al., 89j:73004**
Shelepov, V. Yu. The Noethericity of integral equations of the plane theory of elasticity in the spaces L_p, $p > 1$. (Russian. English summary) **89k:45006**
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Tosaka, N. New integral formulations for continuum mechanics. **89k:73009**
Vasilopoulos, D. On the determination of higher order terms of singular elastic stress fields near corners. **89h:65193**
Xue, Wei Min Multifield variational problems in linear elasticity. **89f:73022**
Zastrow, Udo *see* **Hackl, Klaus, 89h:73010**

73C03 Complex variable techniques

Aleksandrovich, A. I. (*with* Rodionov, A. Yu.) A study of anisotropic and thermoelastic problems using methods of complex analysis. (Russian) (*see* **89g:70002**)
Gabibzade, S. A. On a linearly loaded problem. (Russian) **89m:73010**
Kovalev, V. F. (*with* Mel′nichenko, I. P.) Biharmonic potentials and plane isotropic displacement fields. **89h:73009**
Liu, Shi Qiang On problems of elastic half-planes with periodic cracks. (Chinese. English summary) **89i:73015**
Mel′nichenko, I. P. *see* **Kovalev, V. F., 89h:73009**
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Antipov, Yu. A. (*with* Popov, G. Ya.; Yatsko, S. I.) Solution of the problem of stress concentration around intersecting defects by using the Riemann problem with an infinite index. **89h:73015**
Babich, S. Yu. (*with* Glukhov, Yu. P.; Guz′, A. N.) On the solution of a problem on the action of a moving load on a two-layer semispace with initial stresses. **89i:73027**
Buchanan, J. L. (*with* Gilbert, Robert P.) Hypermembrane shells. (*see* **89g:58004**)
Chalidze, A. K. Boundary value problems for an exponentially inhomogeneous elastic ellipsoid of revolution. (Russian) (*see* **89j:00031**)
Constanda, Christian Fonctions de tension dans un problème de la théorie de l'élasticité. (English summary) [Stress functions in a problem of elasticity theory] **89j:73012**
Emel′yanov, A. P. Justification of a passage to the limit in the plane theory of elasticity. (Russian. English summary) **89g:30074**
Gilbert, Robert P. *see* **Buchanan, J. L., (89g:58004)**
Glukhov, Yu. P. *see* **Babich, S. Yu.; et al., 89i:73027**
Guz′, A. N. *see* **Babich, S. Yu.; et al., 89i:73027**
Kaczyński, A. (*with* Matysiak, S. J.) On the complex potentials of the linear thermoelasticity with microlocal parameters. **89f:73077**
Liu, Shi Qiang The fundamental problem for a long elastic strip with periodic cracks. (Chinese) **89k:73013**
Matysiak, S. J. *see* **Kaczyński, A., 89f:73077**
Maul, J. Perturbation of domains for some nonclassical BVP in elasticity. (German and Russian summaries) **89b:73009**
Meunargiya, T. V. ★ Развитие метода И. Н. Векуа для задач трехмерной моментной теории упругости. (Russian) [The development of I. N. Vekua's method for problems in the three-dimensional moment theory of elasticity] **89k:73058**
Popov, G. Ya. *see* **Antipov, Yu. A.; et al., 89h:73015**
Theotokoglou, E. N. Modified trapezoidal quadratures and accurate potential evaluation for numerical solutions of SIEs on the unit circle. **89g:73008**
Yatsko, S. I. *see* **Antipov, Yu. A.; et al., 89h:73015**
Zheng, Ke Fundamental problems in doubly periodic planar elasticity. (Chinese) **89k:73014**

73C05 Stress functions

Chandrasekharaiah, D. S. Naghdi-Hsu type solution in elastodynamics. **89m:73011**
Constanda, Christian Fonctions de tension dans un problème de la théorie de l'élasticité. (English summary) [Stress functions in a problem of elasticity theory] **89j:73012**
Ding, Hao Jiang (*with* Xu, Bo Hou) General solutions of axisymmetric problems in transversely isotropic body. **89f:73010**
Hackl, Klaus (*with* Zastrow, Udo) On the existence, uniqueness and completeness of displacements and stress functions in linear elasticity. **89h:73010**
Shield, R. T. Variational principles for some nonstandard elastic problems. **89a:73009**
Xu, Bo Hou *see* **Ding, Hao Jiang, 89f:73010**
Zastrow, Udo *see* **Hackl, Klaus, 89h:73010**

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Gachechiladze, R. I. *see* **Maisaia, O. I., 89f:35194**
Maisaia, O. I. (*with* Gachechiladze, R. I.) Investigation of ill-posed problems in the classical and the moment theory of elasticity. (Russian) **89f:35194**
Nazarov, S. A. (*with* Shoĭkhet, B. A.) Ellipticity of a two-dimensional problem of elasticity theory in stresses. **89h:35107**
Shoĭkhet, B. A. *see* **Nazarov, S. A., 89h:35107**
Zhikov, V. V. Estimates for the trace of an averaged tensor. **89j:35031**

73C10 Saint-Venant's principle

Mielke, A. On Saint-Venant's problem and Saint-Venant's principle in nonlinear elasticity. (*see* **89g:58004**)

Items with secondary classifications in 73C10

Cimetière, A. (*with* Geymonat, G.; Le Dret, Hervé; Raoult, A.; Tutek, Z.) Asymptotic theory and analysis for displacements and stress distribution in nonlinear elastic straight slender rods. **89f:73042**
Geymonat, G. *see* **Cimetière, A.; et al., 89f:73042**
Horgan, C. O. Some applications of maximum principles in linear and nonlinear elasticity. **89i:35028**
— *see also* **Vafeades, P., 89i:73020**
Ieşan, D. ★ Saint-Venant's problem. **89g:73012**
Le Dret, Hervé *see* **Cimetière, A.; et al., 89f:73042**
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73C15 Uniqueness theorems

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Weinitschke, H. J. On uniqueness of axisymmetric deformations of elastic plates and shells. **89k:73011**

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73C20 Strain energy methods

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Dassios, George *see* **Andreou, Elias; et al., 89j:73014**
Ieşan, D. ★ Saint-Venant's problem. **89g:73012**
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73C25 Thermal stress problems

Annanurov, B. B. (*with* Orazov, M. B.) A problem on the thermoelastic oscillations of a body and the nonselfadjoint quadratic pencils connected with it. (Russian) **89e:73009**
Jentsch, Lothar On a thermal stress problem for contacting half-spaces with inclusions of other material involving a new method for computing potentials and singular integrals. **89h:73011**
Kolyano, Yu. M. *see* **Verba, I. I., 89f:73011**
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Ignaczak, Józef *see* **Carbonaro, Bruno, 89g:73044**
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Vasin, V. V. On a justification for the projection-grid method and for the numerical procedures for stationary problems in thermoelasticity. (Russian) **89m:73004**
Zhang, Xiang Zhou *see* **Chen, Bao Xing, 89i:73072**
Zhuravkov, M. A. *see* **Martynenko, M. D.; et al., 89m:73034**

73C30 Anisotropic bodies

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Boehler, J.-P. Physical motivation. (*see* **89m:73002**)
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Caviglia, Giacomo (*with* Morro, A.) Conservation laws in anisotropic elastostatics. **89i:73017**
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Kobayashi, Shoichi *see* **Nishimura, N., 89k:73012**
Morro, A. *see* **Caviglia, Giacomo, 89i:73017**
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Debnath, Lokenath *see* **Pal Roy, P., 89d:73013**
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Ieşan, D. ★ Saint-Venant's problem. **89g:73012**
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Kosloff, D. *see* **Carcione, J. M.; et al., 89h:73018**
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Martirosyan, A. N. Movement of a crack in an anisotropic medium. (Russian. Armenian summary) **89c:73072**
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Novichenko, V. N. *see* **Voĭtsekhovskiĭ, S. A., 89a:73043**
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Orazov, M. B. (*with* Shukurov, K. A.) On a problem in elasticity theory in a transversely isotropic medium. (Russian. English summary) **89h:73019**
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Radiollo, M. V. *see* **Krivoĭ, A. F.; et al., 89b:73025**
Rodionov, A. Yu. *see* **Aleksandrovich, A. I., (89g:70002)**
Sánchez-Palencia, Enrique *see* **Leguillon, D., 89b:73014**
Santos, Juan Enrique *see* **Lovera, Oscar Mario, 89d:73012**
Shukurov, K. A. *see* **Orazov, M. B., 89h:73019**
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Applications of tensor functions in solid mechanics ★ Applications of tensor functions in solid mechanics. **89m:73002**

73C35 Mixed boundary value problems [see also 45F05]

Alekseeva, L. A. Boundary integral equations for an elastic half plane with an opening under dynamic loads on its contour. (Russian. Kazakh summary) **89c:73019**
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Meleshko, V. V. *see* **Gomilko, A. M.; et al., 89j:73015**
Ogden, R. W. *see* **Haddow, J. B., (89g:58004)**
Pandey, S. S. *see* **Trivedi, T. N., 89k:73015**
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Arscott, F. M. *see* **Darai, A., 89e:73038**
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73C40 Nonhomogeneous bodies and inclusions

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Items with secondary classifications in 73C40

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Kohn, Robert V. *see* **Buttazzo, Giuseppe, 89a:73048**

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— *see also* **Iosif′yan, G. A.; et al., 89f:35026** *and* **89k:35030**

Payne, L. E. *see* **Knops, R. J., 89d:73008**

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Sánchez-Palencia, Enrique *see* **Leguillon, D., 89b:73014**

Shamaev, A. S. *see* **Iosif′yan, G. A.; et al., 89f:35026**; **Oleĭnik, O. A.; et al., 89i:35014** *and* **Iosif′yan, G. A.; et al., 89k:35030**

Shikula, E. N. *see* **Khoroshun, L. P., 89j:76082**

Soldatov, A. P. *see* **Zhura, N. A., 89b:73012**

Telega, Józef Joachim Variational methods in contact problems of mechanics. (Russian. English summary) **89i:73071**

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Zhura, N. A. (*with* Soldatov, A. P.) A mixed-contact problem in the plane theory of elasticity in domains with a piecewise smooth boundary. **89b:73012**

73C45 Stress concentrations

Aleksandrov, Viktor Mikhaĭlovich (*with* Grishin, S. A.) State of stress and strain of a small neighbourhood of the apex of a wedge for a physical nonlinearity and different boundary conditions. **89j:73019**

Antipov, Yu. A. (*with* Popov, G. Ya.; Yatsko, S. I.) Solution of the problem of stress concentration around intersecting defects by using the Riemann problem with an infinite index. **89h:73015**

Firmani, Bruno The stress concentration factor at the edge of an elastic prism subject to nonuniform bending. (Italian) **89j:73020**

Grishin, S. A. *see* **Aleksandrov, Viktor Mikhaĭlovich, 89j:73019**

Kamysheva, G. A. (*with* Nuller, B. M.) The Flamant problem for a half plane weakened by a periodic system of inclined slots. (Russian. Armenian summary) **89d:73011**

Leguillon, D. (*with* Sánchez-Palencia, Enrique) Singularities in elliptic nonsmooth problems. Applications to elasticity. **89b:73014**

Nuller, B. M. *see* **Kamysheva, G. A., 89d:73011**

Popov, G. Ya. *see* **Antipov, Yu. A.; et al., 89h:73015**

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Yatsko, S. I. *see* **Antipov, Yu. A.; et al., 89h:73015**

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Iosif′yan, G. A. *see* **Oleĭnik, O. A.; et al., 89h:35061**

Oleĭnik, O. A. (*with* Shamaev, A. S.; Iosif′yan, G. A.) Asymptotic expansions of solutions of the Dirichlet problem for elliptic equations in perforated domains. **89h:35061**

Sablé-Tougeron, Monique Existence pour un problème de l'élastodynamique Neumann non linéaire en dimension 2. [Existence for a two-dimensional nonlinear Neumann

elastodynamics problem] **89f:35191**
Shamaev, A. S. *see* **Oleĭnik, O. A.; et al., 89h:35061**
Ting, T. C. T. The critical angle of the anisotropic elastic wedge subject to uniform tractions. **89h:73014**

73C50 Nonlinear elasticity

Antman, Stuart S. (*with* Negrón-Marrero, Pablo V.) The remarkable nature of radially symmetric equilibrium states of aeolotropic nonlinearly elastic bodies. **89c:73023**
Beevers, C. E. (*with* Craine, R. E.) Asymptotic stability in nonlinear elastic materials with dissipation. **89f:73015**
Carroll, M. M. (*with* Rajagopal, K. R.) Pseudoplanar elastic deformations and motions of nonlinear elastic solids. **89e:73012**
Chao, R. M. (*with* Rajagopal, K. R.; Wineman, A. S.) Nonhomogeneous tension-torsion of neo-Hookean and Mooney-Rivlin materials. (Russian and Polish summaries) **89i:73019**
Charrier, P. (*with* Dacorogna, Bernard; Hanouzet, B.; Laborde, P.) An existence theorem for slightly compressible materials in nonlinear elasticity. **89m:73013**
Craine, R. E. *see* **Beevers, C. E., 89f:73015**
Dacorogna, Bernard *see* **Charrier, P.; et al., 89m:73013**
DeTurck, D. (*with* Kamberov, Georgi) A singular problem in elasticity theory. **89f:73016**
Fedorov, S. I. On the passage to the limit with respect to the parameter of incompressibility for some mathematical models in nonlinear elasticity. (Russian) **89j:73021**
Fonseca, Irene Stability of elastic crystals. **89f:73017**
Hanouzet, B. *see* **Charrier, P.; et al., 89m:73013**
Horgan, C. O. *see* **Vafeades, P., 89i:73020**
Kamberov, Georgi *see* **DeTurck, D., 89f:73016**
Koltsakis, E. K. *see* **Panagiotopoulos, P. D., 89b:73015**
Laborde, P. *see* **Charrier, P.; et al., 89m:73013**
Le Dret, Hervé Structure of the set of equilibrated loads in nonlinear elasticity and applications to existence and nonexistence. (French summary) **89a:73014**
Mielke, A. Saint-Venant's problem and semi-inverse solutions in nonlinear elasticity. **89h:73016**
— On Saint-Venant's problem for an elastic strip. **89j:73022**
Misyura, V. A. Estimate of the error occurring in the linearization of geometrically nonlinear problems of the theory of elasticity. **89a:73015**
Negrón-Marrero, Pablo V. *see* **Antman, Stuart S., 89c:73023**
Nzengwa, Robert Incremental methods in nonlinear three-dimensional, incompressible elasticity. (French summary) **89j:73023**
Oniskiv, V. D. An approach to the solution of a nonlinear problem of elasticity. (Russian) (*see* **89c:00008**)
Panagiotopoulos, P. D. (*with* Koltsakis, E. K.) Hemivariational inequalities for linear and nonlinear elastic materials. (Italian summary) **89b:73015**
Pericak-Spector, K. A. (*with* Spector, Scott J.) Nonuniqueness for a hyperbolic system: cavitation in nonlinear elastodynamics. **89e:73013**
Rajagopal, K. R. *see* **Carroll, M. M., 89e:73012** *and* **Chao, R. M.; et al., 89i:73019**
Rong, Ting-Yu Generalized mixed variational principles and new FEM models in solid mechanics. **89k:73017**
Rubin, M. B. The significance of pure measures of distortion in nonlinear elasticity with reference to the Poynting problem. **89f:73018**
Spector, Scott J. *see* **Pericak-Spector, K. A., 89e:73013**
Šverák, Vladimír Regularity properties of deformations with finite energy. **89g:73013**
Tang, Qi Almost-everywhere injectivity in nonlinear elasticity. **89g:73014**
Vafeades, P. (*with* Horgan, C. O.) Exponential decay estimates for solutions of the von Kármán equations on a semi-infinite strip. **89i:73020**
Wineman, A. S. *see* **Chao, R. M.; et al., 89i:73019**

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Andersson, Börje *see* **Storåkers, Bertil, 89m:73025**
Ballmann, J. *see* **Staat, M., (89j:35007)**
Beatty, Millard F. Finite amplitude, periodic motion of a body supported by arbitrary isotropic, elastic shear mountings. **89j:73053**
(Betten, J.) *see* **Applications of tensor functions in solid mechanics, 89m:73002**
(Boehler, J.-P.) *see* **Applications of tensor functions in solid mechanics, 89m:73002**
Carroll, M. M. Finite strain solutions in compressible isotropic elasticity. **89f:73033**
Cimetière, A. (*with* Geymonat, G.; Le Dret, Hervé; Raoult, A.; Tutek, Z.) Asymptotic theory and analysis for displacements and stress distribution in nonlinear elastic straight slender rods. **89f:73042**
Dubey, R. N. Choice of tensor-rates—a methodology. **89h:73006**
Fabrizio, M. (*with* Santi, Ettore) A uniqueness theorem for nonlinear hyperbolic systems of elasticity and electromagnetism. **89i:35093**
Fyodorov, S. I. A numerical algorithm for solving problems of geometrically nonlinear elasticity for incompressible media. (Russian) (*see* **89f:00005**)
Gaete, Sergio (*with* Manasevich, Raul F.) Existence of a pair of periodic solutions of an O.D.E. generalizing a problem in nonlinear elasticity, via variational methods. **89k:34059**
Galanov, B. A. (*with* Krivonos, Yu. M.) The method of nonlinear boundary equations and its numerical realization in three-dimensional contact problems in elasticity theory with a free boundary. (Russian) **89j:73096**
Gao, Yang Inverse variational principle in finite elasticity. **89f:73035**
Gawinecki, Jerzy *see* **Hung Do Duc; et al., (89j:31001)**
Geymonat, G. *see* **Cimetière, A.; et al., 89f:73042**
Grigolyuk, È. I. (*with* Shalashilin, V. I.) ★ Проблемы нелинейного деформирования. (Russian) [Problems of nonlinear deformation] **89m:73001**
Haddow, J. B. (*with* Ogden, R. W.) Application of extremum principles to mixed boundary value problems in nonlinear elasticity. (*see* **89g:58004**)
— (*with* Ogden, R. W.) Compression of bonded elastic bodies. **89g:73023**
Horgan, C. O. Some applications of maximum principles in linear and nonlinear elasticity. **89i:35028**
Hrusa, William J. (*with* Renardy, Michael) An existence theorem for the Dirichlet problem in the elastodynamics of incompressible materials. **89i:35096**
Hung Do Duc (*with* Gawinecki, Jerzy; Piskorek, Adam) On thermoelastic potential. (*see* **89j:31001**)
Ieşan, D. Continuous dependence, uniqueness and existence theorems in nonlinear theory of elastic materials with voids. **89c:73034**
John, Fritz Almost global existence of elastic waves of finite amplitude arising from small initial disturbances. **89j:35087**
Kravchuk, A. S. Solution by variational methods of nonlinear contact problems taking friction into account. (Russian) (*see* **89j:73002**)
Krejčí, Pavel On Ishlinskiĭ's model for non-perfectly elastic bodies. (Russian and Czech summaries) **89i:34088**
Krivonos, Yu. M. *see* **Galanov, B. A., 89j:73096**
Le Dret, Hervé *see* **Cimetière, A.; et al., 89f:73042**
Le Floch, Philippe Entropy weak solutions to nonlinear hyperbolic systems under nonconservative form. **89h:35194**
Manasevich, Raul F. *see* **Gaete, Sergio, 89k:34059**
McLeod, J. Bryce (*with* Rajagopal, K. R.; Wineman, A. S.) On the existence of a class of deformations for incompressible isotropic elastic materials. **89m:73008**
Mielke, A. On Saint-Venant's problem and Saint-Venant's principle in nonlinear elasticity. (*see* **89g:58004**)
Moon, F. Chaotic dynamics in solid mechanics. (*see* **89f:58049**)
Ogden, R. W. *see* **Haddow, J. B., 89g:73023** *and* **(89g:58004)**
Owen, Nicholas C. On a variational problem from one-dimensional nonlinear elasticity. **89f:49003**
Panagiotopoulos, P. D. Variational-hemivariational inequalities in nonlinear elasticity. The coercive case. (Russian and Czech summaries) **89i:49005**
Piskorek, Adam *see* **Hung Do Duc; et al., (89j:31001)**
Qian, Wei Chang Variational principles and generalized variational principles for nonlinear elasticity with finite displacement. **89f:73021**
Rajagopal, K. R. *see* **McLeod, J. Bryce; et al., 89m:73008**
Raoult, A. *see* **Cimetière, A.; et al., 89f:73042**
Renardy, Michael *see* **Hrusa, William J., 89i:35096**
Rosakis, Ares J. *see* **Rosakis, Phoebus, 89f:73036**
Rosakis, Phoebus (*with* Rosakis, Ares J.) The screw dislocation problem in incompressible finite elastostatics: a discussion of nonlinear effects. **89f:73036**
Sablé-Tougeron, Monique Propagation des singularités faibles en élastodynamique non linéaire. [Propagation of weak singularities in nonlinear elastodynamics] **89m:35008**
Samsonov, A. M. (*with* Sokurinskaya, E. V.) Solitary longitudinal waves in an inhomogeneous nonlinearly elastic rod. **89f:73025**
Santi, Ettore *see* **Fabrizio, M., 89i:35093**
Scarpetta, Edoardo On uniqueness in finite elastodynamics for unbounded bodies without strain energy function. (Russian summary) **89h:73024**
Shalashilin, V. I. *see* **Grigolyuk, È. I., 89m:73001**
Sokurinskaya, E. V. *see* **Samsonov, A. M., 89f:73025**
(Spencer, A. J. M.) *see* **Applications of tensor functions in solid mechanics, 89m:73002**
Staat, M. (*with* Ballmann, J.) Fundamental aspects of numerical methods for the propagation of multi-dimensional nonlinear waves in solids. (*see* **89j:35007**)
Storåkers, Bertil (*with* Andersson, Börje) Nonlinear plate theory applied to delamination in composites. **89m:73025**
Tahraouri, R. Théorèmes d'existence en calcul des variations et applications à l'élasticité non linéaire. (English summary) [Existence theorems in the calculus of variations and applications to nonlinear elasticity] **89k:49002**
Tutek, Z. *see* **Cimetière, A.; et al., 89f:73042**
Valent, Tullio ★ Boundary value problems of finite elasticity. **89c:73001**
Wineman, A. S. *see* **McLeod, J. Bryce; et al., 89m:73008**

Items listed otherwise than by author

Applications of tensor functions in solid mechanics ★ Applications of tensor functions in solid mechanics. **89m:73002**

73C60 Variational methods [see also 35J85, 35K85, 35L85, 49A29]

Anzellotti, Gabriele Elasticity with unilateral constraints on the stress. **89f:73019**
Arnold, D. N. (*with* Falk, Richard S.) A new mixed formulation for elasticity. **89f:73020**
Falk, Richard S. *see* **Arnold, D. N., 89f:73020**
Long, Yu Qiu Several patterns of functional transformation and generalized variational principles with several arbitrary parameters. **89c:73024**
Naniewicz, Zdzisław On some nonconvex variational problems related to hemivariational inequalities. **89j:73024**
Noor, Muhammad Aslam (*with* Tirmizi, S. I. A.) Numerical techniques for a class of unilateral problems. (Not in MR)
Olver, Peter J. Conservation laws in elasticity. III. Planar linear anisotropic elastostatics. **89m:73014**
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Qian, Wei Chang Variational principles and generalized variational principles for nonlinear elasticity with finite displacement. **89f:73021**
Tirmizi, S. I. A. *see* **Noor, Muhammad Aslam, (Not in MR)**
Tomarelli, Franco Unilateral problems in continuum mechanics. (*see* **89f:73005**)
Xue, Wei Min Multifield variational problems in linear elasticity. **89f:73022**

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Andersson, Börje *see* **Storåkers, Bertil, 89m:73025**
Bogan, Yu. A. Bending of a strongly anisotropic plate over an obstacle. (Russian) **89c:73047**
Brilla, Jozef Mathematical aspects of the theory of viscoelasticity. (*see* **89g:58004**)
Caviglia, Giacomo (*with* Morro, A.) Conservation laws in anisotropic elastostatics. **89i:73017**
Charrier, P. (*with* Dacorogna, Bernard; Hanouzet, B.; Laborde, P.) An existence theorem for slightly compressible materials in nonlinear elasticity. **89m:73013**
Dacorogna, Bernard *see* **Charrier, P.; et al., 89m:73013**

Dai, Tian Min (*with* Fu, Min Fu; Lin, Zhong Xiang; Yang, De Pin) Variational methods for the problems of nonconservative force fields in the micropolar elastodynamics. **89c:73008**
Demiray, Hilmi (*with* Dost, S.) A variational formulation of diatomic elastic dielectrics. **89h:73040**
Dost, S. *see* **Demiray, Hilmi, 89h:73040**
Dzhorbenadze, A. N. An optimal control problem for systems that can be described by oscillation equations of elasticity theory. (Russian. English and Georgian summaries) **89e:49017**
— An optimal control problem for systems that can be described by the static and oscillation equations of elasticity theory. (Russian. English and Georgian summaries) **89b:49035**
— Optimal control for a nonlinear problem in elasticity theory. (Russian. English and Georgian summaries) **89b:49036**
Fu, Min Fu *see* **Dai, Tian Min; et al., 89c:73008**
Galba, E. F. *see* **Molchanov, I. N., 89j:73064**
Gao, Yang Inverse variational principle in finite elasticity. **89f:73035**
Haddow, J. B. (*with* Ogden, R. W.) Application of extremum principles to mixed boundary value problems in nonlinear elasticity. (*see* **89g:58004**)
— (*with* Ogden, R. W.) Compression of bonded elastic bodies. **89g:73023**
Hanouzet, B. *see* **Charrier, P.; et al., 89m:73013**
Haslinger, J. *see* **Hlaváček, I.; et al., 89i:73003**
Hlaváček, I. (*with* Haslinger, J.; Nečas, Jindřich; Lovíšek, J.) ★ Solution of variational inequalities in mechanics. **89i:73003**
(Jarník, Jiří) *see* **Hlaváček, I.; et al., 89i:73003**
Kikuchi, Noboru (*with* Oden, J. T.) ★ Contact problems in elasticity: a study of variational inequalities and finite element methods. **89j:73097**
Kinderlehrer, David Remarks about equilibrium configurations of crystals. (*see* **89f:73005**)
Koltsakis, E. K. *see* **Panagiotopoulos, P. D., 89b:73015**
Komkov, V. The critical points theory and the variational principles in continuous mechanics of solids. (Russian and Polish summaries) **89k:49031**
Kravchuk, A. S. Solution by variational methods of nonlinear contact problems taking friction into account. (Russian) (*see* **89j:73002**)
Laborde, P. *see* **Charrier, P.; et al., 89m:73013**
Lin, Zhong Xiang *see* **Dai, Tian Min; et al., 89c:73008**
Lobo-Hidalgo, Miguel (*with* Pérez, Eugenia) Comportement asymptotique d'un corps élastique dont une surface présente de petites zones de collage. (English summary) [Asymptotic behavior of an elastic body with a surface having small sticking regions] **89j:73099**
Lovíšek, J. *see* **Hlaváček, I.; et al., 89i:73003**
Molchanov, I. N. (*with* Galba, E. F.) Variational formulations and discretization of the problem of the bending of a thin plate with a free boundary. (Russian. English summary) **89j:73064**
Morro, A. *see* **Caviglia, Giacomo, 89i:73017**
Nečas, Jindřich *see* **Hlaváček, I.; et al., 89i:73003**
Oden, J. T. *see* **Kikuchi, Noboru, 89j:73097**
Ogden, R. W. *see* **Haddow, J. B., 89g:73023** *and* (**89g:58004**)
Owen, Nicholas C. On a variational problem from one-dimensional nonlinear elasticity. **89f:49003**
— Nonconvex variational problems with general singular perturbations. **89m:49025**
Panagiotopoulos, P. D. Multivalued boundary integral equations for inequality problems. The convex case. **89d:73051**
— (*with* Koltsakis, E. K.) Hemivariational inequalities for linear and nonlinear elastic materials. (Italian summary) **89b:73015**
— Hemivariational inequalities and their applications. **89j:49002**
— Hemivariational inequalities and their applications to composite material structures. (*see* **89g:58004**)
— Variational-hemivariational inequalities in nonlinear elasticity. The coercive case. (Russian and Czech summaries) **89i:49005**
— (*with* Stavroulakis, G. E.) A variational-hemivariational inequality approach to the laminated plate theory under subdifferential boundary conditions. **89m:73027b**
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Pérez, Eugenia *see* **Lobo-Hidalgo, Miguel, 89j:73099**
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Rong, Ting-Yu Generalized mixed variational principles and new FEM models in solid mechanics. **89k:73017**
Serëgin, G. A. On the differentiability of extremals of variational problems of the mechanics of ideally elastoplastic media. (Russian) **89d:49008**
Shield, R. T. Variational principles for some nonstandard elastic problems. **89a:73009**
Sokołowski, Jan (*with* Zolésio, J.-P.) Shape sensitivity analysis of contact problem with prescribed friction. **89m:73033**
Souza de Cursi, José Eduardo Statique des fils sans raideur à comportement unilatéral. (English summary) [The statics of unilateral strings] **89f:73072**
Stavroulakis, G. E. (*with* Panagiotopoulos, P. D.) Laminated orthotropic plates under subdifferential boundary conditions. A variational-hemivariational inequality approach. (German and Russian summaries) **89m:73027a**
— *see also* **Panagiotopoulos, P. D., 89m:73027b**
Storåkers, Bertil (*with* Andersson, Börje) Nonlinear plate theory applied to delamination in composites. **89m:73025**
Tahraouri, R. Théorèmes d'existence en calcul des variations et applications à l'élasticité non linéaire. (English summary) [Existence theorems in the calculus of variations and applications to nonlinear elasticity] **89k:49002**
Telega, Józef Joachim Variational methods in contact problems of mechanics. (Russian. English summary) **89i:73071**
Yang, De Pin *see* **Dai, Tian Min; et al., 89c:73008**
Zolésio, J.-P. *see* **Sokołowski, Jan, 89m:73033**

73C99 None of the above, but in this section

Bigi, Dante (*with* Cicala, Placido) Weighted residuals as a basis of a general solution method in elasticity. (Italian summary) **89k:73018**
Cicala, Placido *see* **Bigi, Dante, 89k:73018**
Svanadze, M. Zh. Fundamental solutions of the equations of the linear theory of elastic mixtures. (Russian. English and Georgian summaries) **89j:73025**

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Bassout-Lellich, Maarouf (*with* Weber, Jean-Daniel) Sur la stabilité d'un corps élastique homogène à frontière fixe. (English summary) [On the stability of an elastic homogeneous body with fixed boundary] **89k:73036**
Bilonosov, S. M. Analysis of the solvability of Fredholm boundary integral equations of the second kind in the classical problem of the torsion of an elastic body of revolution. (Russian) **89b:65310**
Brandt, Achi *see* **Ruge, J., 89i:73008**
Chandrasekharaiah, D. S. Naghdi-Hsu type solution in elastodynamics. **89m:73011**
Cioranescu, Doïna (*with* Saint Jean Paulin, Jeannine) Tall structures—problem of towers and cranes. **89k:73054**
Dunwoody, J. (*with* Villaggio, P.) Self straining at the interface of two bonded hyperelastic half-spaces uniformly pre-stressed. **89j:73095**
El-Damanawi, K. E. S. *see* **Jaswon, Maurice A., 89i:73006**
Jaswon, Maurice A. (*with* El-Damanawi, K. E. S.) The representation of elastostatic fields by vector potentials (invited contribution). **89i:73006**
Karapetyants, N. K. (*with* Rubin, B. S.) Integral equations of the first kind with a weak singularity with a radial right-hand side. (Russian) **89g:45010**
Manning, Gerald S. *see* **Nickerson, H. K., 89h:53003**
Nickerson, H. K. (*with* Manning, Gerald S.) Intrinsic equations for a relaxed elastic line on an oriented surface. **89h:53003**
Ramm, A. G. An inverse problem for biharmonic equation. **89h:35342**
Rubin, B. S. *see* **Karapetyants, N. K., 89g:45010**
Ruge, J. (*with* Brandt, Achi) A multigrid approach for elasticity problems on "thin" domains. **89i:73008**
Saint Jean Paulin, Jeannine *see* **Cioranescu, Doïna, 89k:73054**
Villaggio, P. *see* **Dunwoody, J., 89j:73095**
Weber, Jean-Daniel *see* **Bassout-Lellich, Maarouf, 89k:73036**
Zhdanova, G. V. Asymptotic behavior of the solution of the Dirichlet problem for a system of elasticity theory in the exterior of a thin solid of revolution. **89a:35026**

73Dxx Wave propagation in and vibrations of solids

Kal'ts, A. L. *see* **Zhubaev, N. Zh.; et al., 89g:73015**
Karymsakov, K. U. *see* **Zhubaev, N. Zh.; et al., 89g:73015**
Kim, V. T. *see* **Zhubaev, N. Zh.; et al., 89g:73015**
Kozhabekov, Zh. T. *see* **Zhubaev, N. Zh.; et al., 89g:73015**
Nurzhanova, Sh. Zh. *see* **Zhubaev, N. Zh.; et al., 89g:73015**
Sarsenov, B. Sh. *see* **Zhubaev, N. Zh.; et al., 89g:73015**
Sinyaev, A. Ya. *see* **Zhubaev, N. Zh.; et al., 89g:73015**
Turekulova, A. N. *see* **Zhubaev, N. Zh.; et al., 89g:73015**
Zhubaev, N. Zh. (*with* Kal'ts, A. L.; Karymsakov, K. U.; Kim, V. T.; Kozhabekov, Zh. T.; Nurzhanova, Sh. Zh.; Sarsenov, B. Sh.; Sinyaev, A. Ya.; Turekulova, A. N.) ★ Численные методы исследования двухмерных волн напряжений (в упругих и упругопластических средах). (Russian) [Numerical methods for the study of two-dimensional stress waves (in elastic and elastoplastic media)] **89g:73015**

73D05 Impact and explosion problems [see also 76L05]

Kazakevich, G. I. Extension of an explosion cavity in a geomaterial with very rapidly changing properties. (Russian) (Not in MR)
Tanzi Cattabianchi, Luigi An inverse problem associated with the Levi-Civita effect of terminal ballistics and its generalizations. (Italian. English summary) (Not in MR)

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Andriankin, È. I. (*with* Andrushchenko, V. A.; Kholin, N. N.) Numerical methods for solving three-dimensional time-dependent problems of the dynamics of elastoplastic media. (Russian) **89k:73027**
Andrushchenko, V. A. *see* **Andriankin, È. I.; et al., 89k:73027**
Bunimovich, A. I. (*with* Yakunina, G. E.) On the shape of minimum-resistance solids of revolution moving in plastically compressible and elastic-plastic media. **89j:73044**
Colombeau, J.-F. Generalized functions; multiplication of distributions; applications to elasticity, elastoplasticity, fluid dynamics and acoustics. (*see* **89i:00025**)
Fickett, Wildon A mathematical problem from detonation theory. **89k:76070**
Glimm, James (*with* Grove, John; Lindquist, W. Brent; McBryan, Oliver A.; Tryggvason, Grétar) The bifurcation of tracked scalar waves. **89g:76032**
Grove, John *see* **Glimm, James; et al., 89g:76032**
Kholin, N. N. *see* **Andriankin, È. I.; et al., 89k:73027**
Kulikovskiĭ, A. G. Strong discontinuities in flows of continua and their structure. (Russian) **89k:76001**
Lindquist, W. Brent *see* **Glimm, James; et al., 89g:76032**
McBryan, Oliver A. *see* **Glimm, James; et al., 89g:76032**
Tryggvason, Grétar *see* **Glimm, James; et al., 89g:76032**
Yakunina, G. E. *see* **Bunimovich, A. I., 89j:73044**

73D10 Integral transforms

Callias, C. (*with* Markenscoff, X.) Singular asymptotics of integrals and the near-field radiated from nonuniformly moving dislocations. **89j:73026**
Itskovitš, M. A. *see* **Lokshin, A. A., 89j:73027**
Lokshin, A. A. (*with* Itskovitš, M. A.) A note concerning generalization of the Landau method for waves in nonlinear hereditary media. **89j:73027**
Markenscoff, X. *see* **Callias, C., 89j:73026**

Items with secondary classifications in 73D10

Angel, Y. C. On the reduction of elastodynamic crack problems to singular integral equations. **89i:73021**

Baimagambetov, U. Investigation of the propagation of SH-waves in a layered cubic anisotropic elastic system. (Russian) **89j:73032**

Naumov, V. V. Mean value theorems for the equation of harmonic oscillations of an elastic body. (Russian) **89j:73037**

Payton, R. G. Stresses in a constrained transversely isotropic elastic solid caused by a moving dislocation. **89i:73028**

73D15 Dilatational and shear waves

Abd-Alla, A. N. (*with* Maugin, Gérard A.) Linear and nonlinear surface waves on magnetostrictive crystals in a bias magnetic field. (*see* **89g:73001**)

Alekseeva, L. A. Short-wave asymptotics and the asymptotics of a remote source field in an elastic half-plane. (Russian. Kazakh summary) **89k:73019**

Angel, Y. C. On the reduction of elastodynamic crack problems to singular integral equations. **89i:73021**

Antman, Stuart S. (*with* Malek-Madani, Reza) Travelling waves in nonlinearly viscoelastic media and shock structure in elastic media. **89h:73017**

Carcione, J. M. (*with* Kosloff, D.; Kosloff, R.) Wave-propagation simulation in an elastic anisotropic (transversely isotropic) solid. **89h:73018**

Debnath, Lokenath *see* **Pal Roy, P., 89d:73013**

García-Reimbert, Catherine (*with* Minzoni, A. A.) Some nonlinear effects on Love waves. **89k:73020**

Hager, W. W. (*with* Rostamian, R.) Reflection and refraction of elastic waves for stratified materials. **89g:73016**

Kosloff, D. *see* **Carcione, J. M.; et al., 89h:73018**

Kosloff, R. *see* **Carcione, J. M.; et al., 89h:73018**

Lovera, Oscar Mario (*with* Santos, Juan Enrique) Numerical methods for a model for wave propagation in composite anisotropic media. (French summary) **89d:73012**

Malek-Madani, Reza *see* **Antman, Stuart S., 89h:73017**

Maugin, Gérard A. *see* **Abd-Alla, A. N., (89g:73001)**

Minzoni, A. A. *see* **García-Reimbert, Catherine, 89k:73020**

Nikolaevskiĭ, V. N. Solitary waves and earthquakes. (Russian) (*see* **89j:73002**)

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Rostamian, R. *see* **Hager, W. W., 89g:73016**

Santos, Juan Enrique *see* **Lovera, Oscar Mario, 89d:73012**

Teymur, M. Nonlinear modulation of Love waves in a compressible hyperelastic layered half space. **89i:73022**

Tupholme, G. E. Multiple scale techniques applied to nonlinear elastic and piezoelectric surface waves. (*see* **89g:73001**)

Wu, Ru-Shan Representation integrals for elastic wave propagation containing either the displacement term or the stress term alone. **89j:73028**

Items with secondary classifications in 73D15

Burridge, R. (*with* Papanicolaou, George C.; White, Benjamin S.) One-dimensional wave propagation in a highly discontinuous medium. **89g:86002**

Busch-Vishniac, Ilene J. *see* **Paynter, Henry M., 89i:35088**

Callias, C. (*with* Markenscoff, X.) Singular asymptotics of integrals and the near-field radiated from nonuniformly moving dislocations. **89j:73026**

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Kazakevich, G. I. Extension of an explosion cavity in a geomaterial with very rapidly changing properties. (Russian) (Not in MR)

Krauklis, L. A. *see* **Krauklis, P. V., (Not in MR)**

Krauklis, P. V. (*with* Krauklis, L. A.) On a type of wave in media that contain surfaces of weakened mechanical contact. (Russian. English summary) (Not in MR)

Markenscoff, X. *see* **Callias, C., 89j:73026**

Papanicolaou, George C. *see* **Burridge, R.; et al., 89g:86002**

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Rostamian, R. *see* **Hager, W. W., (89j:00028)**

Teymur, M. Finite amplitude Love waves on an incompressible elastic layered half space. **89i:73025**

White, Benjamin S. *see* **Burridge, R.; et al., 89g:86002**

73D20 Surface waves

Azhotkin, V. D. (*with* Babich, V. M.) The propagation of Love waves along the surface of an anisotropic body of arbitrary shape. (Russian. English summary) **89a:73016**

Babich, V. M. *see* **Azhotkin, V. D., 89a:73016**

Bamberger, A. (*with* Joly, Patrick; Kern, Michel) Mathematical and computational aspects of the determination of elastic surface waves along cylindrical cavities of general cross section. **89k:73021**

Chadwick, P. Aspects of the behaviour of surface waves in transversely isotropic elastic media. (*see* **89g:73001**)

Debnath, Lokenath *see* **Maiti, Narayan Chandra, 89j:73030**

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Joly, Patrick *see* **Bamberger, A.; et al., 89k:73021**

Kern, Michel *see* **Bamberger, A.; et al., 89k:73021**

Kirpichnikova, N. Ya. (*with* Kiselev, A. P.) Polarization-spectral anomalies of surface waves in an almost layered elastic half space. (Russian) **89a:73017**

Kiselev, A. P. *see* **Kirpichnikova, N. Ya., 89a:73017**

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Lenz, J. *see* **Majorkowska-Knap, K., (89g:73001)**

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Majorkowska-Knap, K. (*with* Lenz, J.) Electromechanical surface waves in layered elastic dielectrics with polarization gradient. (*see* **89g:73001**)

Maradudin, A. A. Surface acoustic waves on rough surfaces. **89i:73023**

— Nonlinear surface acoustic waves and their associated surface acoustic solitons. (*see* **89g:73001**)

— *see also* **McGurn, A. R., 89j:73031**

Maugin, Gérard A. Shear horizontal surface acoustic waves on solids. **89i:73024**

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Teymur, M. Finite amplitude Love waves on an incompressible elastic layered half space. **89i:73025**

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Gatignol, Ph. *see* **Rousseau, M., 89a:76046**

Rousseau, M. (*with* Gatignol, Ph.) Analyse asymptotique des faisceaux ultrasonores et problèmes d'interface. (English summary) [Asymptotic analysis of ultrasonic beams and interface problems] **89a:76046**

Teymur, M. Nonlinear modulation of Love waves in a compressible hyperelastic layered half space. **89i:73022**

73D25 Wave diffraction and dispersion

Aubry, Denis (*with* Crépel, J. M.) Hybrid formulation for the Green function in stratified media: application to wave scattering against lateral heterogeneities. (*see* **89b:65009**)

Babich, V. M. Asymptotic methods in the theory of elastic waves. (Russian) (*see* **89h:86005**)

Baĭmagambetov, U. Investigation of the propagation of SH-waves in a layered cubic anisotropic elastic system. (Russian) **89j:73032**

Belokon', A. V. (*with* Nasedkin, A. V.) Waves caused by moving loads in an isotropic layer inhomogeneous through the thickness. **89d:73014**

Belyaev, A. Yu. Wave propagation in a continuous medium with periodically distributed inclusions. (Russian) **89a:73018**

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Costabel, M. (*with* Stephan, E. P.) Coupling of finite elements and boundary elements for transmission problems of elastic waves in $\mathbf{R}^3$. **89c:73025**

Crépel, J. M. *see* **Aubry, Denis, (89b:65009)**

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— (*with* Payne, L. E.) Estimates for low-frequency elastic scattering by a rigid body. **89i:73026**

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Karlsson, Anders *see* **Corones, James, 89m:73016**

Khutoryanskiĭ, N. M. The method of boundary-time elements in three-dimensional nonstationary problems of diffraction of elastic waves. (Russian) **89k:73022**

Kiriaki, Kiriakie *see* **Dassios, George; et al., 89a:73019**

Kooij, Bert Jan (*with* Quak, Dirk) Three-dimensional scattering of impulsive acoustic waves by a semi-infinite crack in the plane interface of a half-space and a layer. **89f:73023**

Kosiński, S. Normal reflection transmission of shocks waves on a plane interface between two rubber-like media. (*see* **89j:35007**)

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Nasedkin, A. V. *see* **Belokon', A. V., 89d:73014**

Nédélec, Jean-Claude The double layer potential for periodic elastic waves in $\mathbf{R}^3$. **89j:73034**

Orazov, M. B. (*with* Shukurov, K. A.) On a problem in elasticity theory in a transversely isotropic medium. (Russian. English summary) **89h:73019**

Payne, L. E. *see* **Dassios, George, 89i:73026**

Polyzos, Demosthenes *see* **Dassios, George; et al., 89a:73019**

Quak, Dirk *see* **Kooij, Bert Jan, 89f:73023**

Rostamian, R. *see* **Hager, W. W., (89j:00028)**

Shukurov, K. A. *see* **Orazov, M. B., 89h:73019**

Stephan, E. P. *see* **Costabel, M., 89c:73025**

Storozhev, V. I. Special functions of generalized complex variables in problems of the diffraction of elastic shear waves for anisotropic media. (Russian) **89j:73035**

Tleukenov, S. K. Distribution of the roots of a dispersion equation of a wavequide that is periodically inhomogeneous with respect to depth. (Russian. English summary) (Not in MR)

Zakradze, M. V. On a matrix of fundamental solutions of the equation of the dynamics of elasticity theory. (Russian) **89a:73020**

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Achenbach, J. D. (*with* Kechter, G. E.; Xu, Yong Lin) Off-boundary approach to the boundary element method. **89g:73002**

Alekseeva, L. A. Short-wave asymptotics and the asymptotics of a remote source field in an elastic half-plane. (Russian. Kazakh summary) **89k:73019**

Briggs, G. A. D. *see* **Tew, R. H.; et al., 89i:76085**

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Demiray, Hilmi (*with* Dost, S.) A variational formulation of diatomic elastic dielectrics. **89h:73040**
Dermenjian, Yves (*with* Guillot, Jean-Claude) Scattering of elastic waves in a perturbed isotropic half space with a free boundary. The limiting absorption principle. **89i:35109**
Dos Santos, A. F. (*with* Teixeira, F. S.) Theory of a class of Wiener-Hopf equations of the first kind: application to the Sommerfeld problem. **89a:45011**
Dost, S. *see* **Demiray, Hilmi, 89h:73040**
England, Roland *see* **Ize, Jorge; et al., 89g:35027**
Fadeev, V. M. *see* **Slepyan, L. I., 89c:73044**
Gao, Long Sheng *see* **Shang, Tie Liang, 89m:86012**
Guillot, Jean-Claude *see* **Dermenjian, Yves, 89i:35109**
Hager, W. W. (*with* Rostamian, R.) Reflection and refraction of elastic waves for stratified materials. **89g:73016**
Howe, M. S. Attenuation and diffraction of bending waves at gaps in fluid loaded plates. (Not in MR)
Ize, Jorge (*with* England, Roland; Sabina, Federico J.) Diffraction of waves by inhomogeneous obstacles. **89g:35027**
Kechter, G. E. *see* **Achenbach, J. D.; et al., 89g:73002**
Kosov, V. V. *see* **Urupov, A. K.; et al., 89m:86014**
Kostopoulos, Vassilis *see* **Dassios, George, 89c:73090**
(Lavrent′ev, M. M.) *see* **Mathematical modeling in geophysics, 89h:86005**
Maradudin, A. A. Surface acoustic waves on rough surfaces. **89i:73023**
— *see also* **McGurn, A. R., 89j:73031**
Maugin, Gérard A. Shear horizontal surface acoustic waves on solids. **89i:73024**
McGurn, A. R. (*with* Maradudin, A. A.) Localization effects in the scattering of acoustic waves from a random stress-free grating surface. **89j:73031**
Ockendon, J. R. *see* **Tew, R. H.; et al., 89i:76085**
Rakesh (*with* Symes, W. W.) On the relation between the wavefront sets of the scatterer and the data. **89g:73018**
Rostamian, R. *see* **Hager, W. W., 89g:73016**
Sabina, Federico J. *see* **Ize, Jorge; et al., 89g:35027**
Shang, Tie Liang (*with* Gao, Long Sheng) Transportation theory of multiple scattering and its application to seismic coda waves of impulse source. **89m:86012**
Sharifullin, R. G. *see* **Urupov, A. K.; et al., 89m:86014**
Slepyan, L. I. (*with* Fadeev, V. M.) Reflection, refraction and radiation of waves in a piecewise homogeneous elastic system that interacts with a fluid. **89c:73044**
Soga, Hideo On the representation of the scattering kernel for the elastic wave equation. **89j:35104**
Symes, W. W. *see* **Rakesh, 89g:73018**
Teixeira, F. S. *see* **Dos Santos, A. F., 89a:45011**
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Urupov, A. K. (*with* Sharifullin, R. G.; Kosov, V. V.) Continuation of seismic fields. (Russian) **89m:86014**
Xu, Yong Lin *see* **Achenbach, J. D.; et al., 89g:73002**
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Items listed otherwise than by author

Mathematical modeling in geophysics ★ Математическое моделирование в геофизике. (Russian) [Mathematical modeling in geophysics] **89h:86005**

73D30 Linear vibrations [see also 70Jxx]

Anderson, J. S. *see* **Hosseini-Hashemi, S., 89c:73027**
Gol′denveĭzer, A. L. *see* **Vasil′ev, D. G.**, (**89j:73002**)
Hosseini-Hashemi, S. (*with* Anderson, J. S.) Orthogonality and normalization of torsional modes of vibration of solid elastic spheres. **89c:73027**
Kazakevich, V. A. (*with* Martynenko, M. D.) The method of Green quasifunctions in the theory of steady oscillations of elastic bodies. (Russian. English summary) **89j:73036**
Leipholz, H. H. E. On the modal approach to the stability of certain nonselfadjoint problems in elastodynamics. **89d:73017**
— On the application of the modal approach to plates with a nonselfadjoint control. **89d:73018**
Martynenko, M. D. *see* **Kazakevich, V. A., 89j:73036**
Nasedkin, A. V. Principles of limiting absorption and limiting amplitude in steady-state problems of elasticity theory. (Russian) **89a:73021**
Naumov, V. V. General solution of an equation of the harmonic oscillations of an elastic body. (Russian) **89d:73019**
— Mean value theorems for the equation of harmonic oscillations of an elastic body. (Russian) **89j:73037**
Vasil′ev, D. G. (*with* Gol′denveĭzer, A. L.) Distribution of the frequencies of free oscillations of two- and three-dimensional elastic bodies. (Russian) (*see* **89j:73002**)
Villaggio, P. The virtual friction of a sphere vibrating in an elastic medium. **89k:73023**
Zhdanova, G. V. Asymptotic behavior of the solution of the Dirichlet problem for a system of elasticity theory outside a thin body of revolution. **89a:73022**

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Alekseeva, L. A. Boundary integral equations for an elastic half plane with an opening under dynamic loads on its contour. (Russian. Kazakh summary) **89c:73019**
Chabas, F. (*with* Soize, C.) Modeling mechanical subsystems by boundary impedance in the finite element method. **89d:73036**
Chêng, Sui Shêng Optimal fundamental frequencies of the loaded vibrating string. **89j:34030**
Davet, Jean-Louis Correction du second ordre pour le calcul des fréquences propres d'une plaque en flexion. (English summary) [A second-order correction formula for the eigenfrequencies of a bending plate] **89j:73067**
Golovatyĭ, Yu. D. (*with* Nazarov, S. A.; Oleĭnik, O. A.) Asymptotic behavior of eigenvalues and eigenfunctions in problems on oscillations of a medium with singular perturbation of the density. (Russian) **89k:35172**
Gottlieb, H. P. W. Density distribution for isospectral circular membranes. **89j:73068**
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Kelkel, K. *see* **Hagedorn, Peter; et al., 89k:73047**
Kushunina, N. A. *see* **Lizarev, A. D., 89g:34011**
Lizarev, A. D. (*with* Kushunina, N. A.) Equations of hypergeometric type that are integrable in elementary functions. (Russian) **89g:34011**
Maezawa, Seiichiro Vibration of a bowed string (a supplement). **89k:73040**
Musgrave, M. J. P. Stress waves in orthorhombic micropolar media. **89a:73005**
Nazarov, S. A. *see* **Golovatyĭ, Yu. D.; et al., 89k:35172**
Oleĭnik, O. A. *see* **Golovatyĭ, Yu. D.; et al., 89k:35172**
Pel′ts, S. P. (*with* Shikhman, V. M.) Convergence of the method of homogeneous solutions in a dynamic mixed problem for a half-strip. (Russian) **89b:73011**
Pierre, Christophe Comments on Rayleigh's quotient and perturbation theory for the eigenvalue problem. **89m:70038**
Russo, Remigio On classical theorems for the dynamics of an infinite homogeneous isotropic elastic body. (Italian. English summary) **89a:73010**
Schumacher, J. M. Analytic methods for the modeling of flexible structures. **89j:93066**
Shikhman, V. M. *see* **Pel′ts, S. P., 89b:73011**
Sidel′nik, Ya. I. Existence and uniqueness of the generalized solution of a mixed problem for an equation of plate vibration type in a noncylindrical domain. (Russian) **89k:35242**
Soize, C. *see* **Chabas, F., 89d:73036**
Sumbatyan, M. A. Asymptotic behavior of the solution of a contact problem for an elastic layer for high oscillation frequencies. **89c:73088**
Svanadze, K. N. Solution of the third and fourth plane boundary value problems of the steady-state oscillations of an isotropic elastic body, taking into account the moment stresses. (Russian. English and Georgian summaries) **89i:73018**
Svanadze, M. Zh. Fundamental solutions of the equations of the linear theory of elastic mixtures. (Russian. English and Georgian summaries) **89j:73025**
Wallaschek, J. *see* **Hagedorn, Peter; et al., 89k:73047**

73D35 Nonlinear vibrations [see also 70Kxx]

Chugaĭnova, A. P. Formation of a self-similar solution in a problem of nonlinear waves in an elastic semispace. (Russian) (Not in MR)
Orlov, V. P. (*with* Sobolevskiĭ, P. E.) Solvability of longitudinal oscillations of a viscoelastic one-dimensional continuum. (Russian. English summary) **89h:73020**
Samsonov, A. M. On the existence of solitons of longitudinal deformation in an infinite nonlinearly elastic rod. **89d:73020**
Sobolevskiĭ, P. E. *see* **Orlov, V. P., 89h:73020**

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Abrahams, I. D. Acoustic scattering by a finite nonlinear elastic plate. I. Primary, secondary and combination resonances. **89a:76045**
Beatty, Millard F. (*with* Chow, Alan C.) Finite amplitude vibrations of a Mooney-Rivlin oscillator. **89f:73041**
— Finite amplitude, periodic motion of a body supported by arbitrary isotropic, elastic shear mountings. **89j:73053**
Cartmell, M. P. (*with* Roberts, John Wilson) Simultaneous combination resonances in an autoparametrically resonant system. **89c:70052**
Chow, Alan C. *see* **Beatty, Millard F., 89f:73041**
Ding, Yan Heng Nonlinear vibrations in the *n*-dimensional beam equation. (Chinese. English summary) **89k:35144**
García-Reimbert, Catherine (*with* Minzoni, A. A.) Some nonlinear effects on Love waves. **89k:73020**
Itskovitš, M. A. *see* **Lokshin, A. A., 89j:73027**
Lokshin, A. A. (*with* Itskovitš, M. A.) A note concerning generalization of the Landau method for waves in nonlinear hereditary media. **89j:73027**
Mikhlin, Yu. V. (*with* Morgunov, B. I.) Investigation of the quasinormal oscillations of nonlinear viscoelastic systems. (Russian) **89e:73019**
Minzoni, A. A. *see* **García-Reimbert, Catherine, 89k:73020**
Morgunov, B. I. *see* **Mikhlin, Yu. V., 89e:73019**
Roberts, John Wilson *see* **Cartmell, M. P., 89c:70052**
Teymur, M. Finite amplitude Love waves on an incompressible elastic layered half space. **89i:73025**
von Wahl, Wolf Some nonlinear hyperbolic problems in elasticity. **89a:35138**

73D40 Singular surfaces

Bailey, Paul B. (*with* Chen, Peter J.) On the local and global behavior of weak shocks and induced discontinuities in a class of materials with internal state variables. **89g:73017**
Chen, Peter J. *see* **Bailey, Paul B., 89g:73017**
De Luca, P. *see* **LeRoux, A. Y.**, (**89j:35007**)
LeRoux, A. Y. (*with* De Luca, P.) A velocity-pressure model for elastodynamics. (*see* **89j:35007**)
Silli, Carlo Ordinary discontinuity waves in two-dimensional thin continua. (Italian. English summary) **89j:73038**

Items with secondary classifications in 73D40

Ames, William F. (*with* Donato, A.) On the evolution of weak discontinuities in a state characterized by invariant solutions. **89k:35141**
Antman, Stuart S. (*with* Malek-Madani, Reza) Travelling waves in nonlinearly viscoelastic media and shock structure in elastic media. **89h:73017**
Colombeau, J.-F. Generalized functions; multiplication of distributions; applications to elasticity, elastoplasticity, fluid dynamics and acoustics. (*see* **89i:00025**)
Donato, A. (*with* Oliveri, F.) On nonlinear plane vibration of a moving threadline. (Italian summary) **89h:73027**
— *see also* **Ames, William F., 89k:35141**

Estrada, Ricardo (*with* Kanwal, R. P.) Higher order fundamental forms of a surface and their applications to wave propagation and generalized derivatives. **89i:46045**

Kanwal, R. P. *see* **Estrada, Ricardo, 89i:46045**

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Malek-Madani, Reza *see* **Antman, Stuart S., 89h:73017**

Oliveri, F. *see* **Donato, A., 89h:73027**

Yamamoto, Kazuhiro Singularities of solutions to the boundary value problems for elastic and Maxwell's equations. **89k:35235**

73D50 Inverse problems [see also 35Lxx, 35R30]

Baev, A. V. On the solution of an inverse problem of the scattering of a plane wave by a multilayered inhomogeneous medium. **89e:73014**

Esmersoy, Cengiz *see* **Levy, Bernard C., 89j:73039**

Kirsch, Andreas (*with* Kress, Rainer; Monk, P. B.; Zinn, A.) Two methods for solving the inverse acoustic scattering problem. **89k:73024**

Kress, Rainer *see* **Kirsch, Andreas; et al., 89k:73024**

Levy, Bernard C. (*with* Esmersoy, Cengiz) Variable background Born inversion by wavefield backpropagation. **89j:73039**

Monk, P. B. *see* **Kirsch, Andreas; et al., 89k:73024**

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Symes, W. W. *see* **Rakesh, 89g:73018**

Zinn, A. *see* **Kirsch, Andreas; et al., 89k:73024**

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Alekseev, A. S. (*with* Lavrent′ev, M. M.; Romanov, V. G.; Romanov, M. E.) Theoretical and numerical questions in seismic tomography. (Russian) (*see* **89h:86005**)

Baev, A. V. Solution of the inverse Lamb problem with an unknown source. (Russian) **89i:35126**

Berendt, G. *see* **Schomburg, B., 89h:86002**

Bube, Kenneth P. The effect of discontinuities on the order of convergence of numerical inversion methods. **89d:86004**

Carroll, Robert Wayne (*with* Raphael, Louise) Some inverse problems with spectral limitations on data. **89k:35248**

Cheney, Margaret (*with* Kristensson, Gerhard) Three-dimensional inverse scattering: layer-stripping formulae and ill-posedness results. **89i:35128**

Corones, James (*with* Karlsson, Anders) Transient direct and inverse scattering for inhomogeneous viscoelastic media: obliquely incident SH mode. **89m:73016**

Foster, Douglas J. (*with* Mosher, Charles C.) Multidimensional inversion of seismic data. **89d:86005**

Gottlieb, H. P. W. Density distribution for isospectral circular membranes. **89j:73068**

Huang, Jau-Inn Solution to the inverse problem of the 1-D wave equation. **89m:35214**

Karlsson, Anders *see* **Corones, James, 89m:73016**

Kristensson, Gerhard *see* **Cheney, Margaret, 89i:35128**

Lavrent′ev, M. M. *see* **Alekseev, A. S.; et al.,** (**89h:86005**) *and* **Mathematical modeling in geophysics, 89h:86005**

Mosher, Charles C. *see* **Foster, Douglas J., 89d:86005**

Raphael, Louise *see* **Carroll, Robert Wayne, 89k:35248**

Romanov, M. E. *see* **Alekseev, A. S.; et al.,** (**89h:86005**)

Romanov, V. G. *see* **Alekseev, A. S.; et al.,** (**89h:86005**)

Santosa, Fadil (*with* Symes, W. W.) Reconstruction of blocky impedance profiles from normal-incidence reflection seismograms which are band-limited and miscalibrated. **89c:86002**

Sarwar, A. K. M. Some closed-form solutions of the impedance inverse problem. **89c:86003**

Schomburg, B. (*with* Berendt, G.) On the convergence of the Backus-Gilbert algorithm. **89h:86002**

Somersalo, E. On the solutions of the one-dimensional wave equation with complex potential. **89i:86006**

Sun, Zi Qi On the uniqueness of a multidimensional hyperbolic inverse problem. **89f:35212**

Symes, W. W. *see* **Santosa, Fadil, 89c:86002**

Tarantola, Albert Inversion of elastic seismic reflection data. **89j:86004**

Ueda, Sei The inverse problem for the string or rod clamped at both sides. **89i:73052**

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Mathematical modeling in geophysics ★ Математическое моделирование в геофизике. (Russian) [Mathematical modeling in geophysics] **89h:86005**

73D99 None of the above, but in this section

Babich, S. Yu. (*with* Glukhov, Yu. P.; Guz′, A. N.) On the solution of a problem on the action of a moving load on a two-layer semispace with initial stresses. **89i:73027**

Belokon′, A. V. (*with* Vorovich, I. I.) Some regularities in the formation of wave fields in an anisotropic layer under a pulsating moving load. (Russian) (*see* **89j:73002**)

Büttiker, Markus (*with* Thomas, Harry) Propagation and stability of kinks in driven and damped nonlinear Klein-Gordon chains. **89b:73016**

Carbonaro, Bruno (*with* Russo, Remigio) Examples of nonuniqueness and nonvalidity of the domain of influence theorem for a linear elastodynamic differential system. (Italian. English summary) **89c:73028**

— Addendum to: "Some examples of nonuniqueness of solutions to the equation of linear elastodynamics" [J. Elasticity 17 (1987), no. 3, 207–222; MR 88d:73020]. **89a:73023**

Dassios, George Energy behaviour for conservative and dissipative wave processes in continuum mechanics. **89b:73017**

Glukhov, Yu. P. *see* **Babich, S. Yu.; et al., 89i:73027**

Gorskiĭ, N. M. (*with* Mikhaĭlenko, B. G.) ★ Решение пространственных задач теории распространения сейсмических волн в скоростях и напряжениях. (Russian) [Solution of spatial problems in the theory of the propagation of seismic waves in velocities and stresses] **89j:73040**

Guz′, A. N. *see* **Babich, S. Yu.; et al., 89i:73027**

Hong, Shan Tao Dynamics of multideformable bodies. **89d:73021**

Luca, Ioana Thermoacoustical waves in linear homogeneous isotropic thermoviscoelastic materials of integral type. **89m:73017**

Mikhaĭlenko, B. G. *see* **Gorskiĭ, N. M., 89j:73040**

Nagayama, Kunihito An exact solution of the Riemann problem for solids with the Grüneisen equation of state. **89a:73024**

Payton, R. G. Stresses in a constrained transversely isotropic elastic solid caused by a moving dislocation. **89i:73028**

Russo, Remigio Uniqueness theorems in linear elastodynamics without strain-energy function. **89f:73024**

— *see also* **Carbonaro, Bruno, 89c:73028**

Samsonov, A. M. (*with* Sokurinskaya, E. V.) Solitary longitudinal waves in an inhomogeneous nonlinearly elastic rod. **89f:73025**

Silli, Carlo Discontinuity waves in a certain class of two-dimensional thin continua. (Italian. English summary) (Not in MR)

Slepyan, L. I. (*with* Tsareva, O. V.) Energy flux for the zero group velocity of a carrier wave. (Russian) **89a:73025**

Sochacki, James Absorbing boundary conditions for the elastic wave equations. **89h:73021**

Sokurinskaya, E. V. *see* **Samsonov, A. M., 89f:73025**

Sotiropoulos, Dimitrios A. Response of elastic solids to a moving discontinuity. **89a:73026**

Thomas, Harry *see* **Büttiker, Markus, 89b:73016**

Tsareva, O. V. *see* **Slepyan, L. I., 89a:73025**

Vorovich, I. I. *see* **Belokon′, A. V.,** (**89j:73002**)

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Adomian, George A. Wave propagation in nonlinear media. **89a:35040**

Andriankin, È. I. (*with* Andrushchenko, V. A.; Kholin, N. N.) Numerical methods for solving three-dimensional time-dependent problems of the dynamics of elastoplastic media. (Russian) **89k:73027**

Andrushchenko, V. A. *see* **Andriankin, È. I.; et al., 89k:73027**

Annanurov, B. B. (*with* Orazov, M. B.) A problem on the thermoelastic oscillations of a body and the nonselfadjoint quadratic pencils connected with it. (Russian) **89e:73009**

Antes, Heinz ★ Anwendungen der Methode der Randelemente in der Elastodynamik und der Fluiddynamik. (German) [Applications of the method of boundary elements in elastodynamics and in fluid dynamics] **89k:73002**

Babich, V. M. Asymptotic methods in the theory of elastic waves. (Russian) (*see* **89h:86005**)

Ballmann, J. *see* **Staat, M.,** (**89j:35007**)

Bamberger, A. (*with* Engquist, Björn; Halpern, Laurence; Joly, Patrick) Parabolic wave equation approximations in heterogenous media. **89h:35225**

— (*with* Engquist, Björn; Halpern, Laurence; Joly, Patrick) Higher order paraxial wave equation approximations in heterogeneous media. **89h:35226**

Calderón, Alberto Pedro *see* **Santos, Juan Enrique; et al., 89b:65277**

Chadha, T. K. *see* **Kumar, Rajive^1, 89d:73003**

Dai, Tian Min (*with* Fu, Min Fu; Lin, Zhong Xiang; Yang, De Pin) Variational methods for the problems of nonconservative force fields in the micropolar elastodynamics. **89c:73008**

Douglas, Jim, Jr. (*with* Santos, Juan Enrique) Approximation of waves in composite media. (*see* **89c:65004**)

— *see also* **Santos, Juan Enrique; et al., 89b:65277**

Engquist, Björn *see* **Bamberger, A.; et al., 89h:35225** *and* **89h:35226**

Fu, Min Fu *see* **Dai, Tian Min; et al., 89c:73008**

Galiev, Sh. U. ★ Нелинейные волны в ограниченных сплошных средах. (Russian) [Nonlinear waves in bounded continua] **89i:73042**

Gustafsson, Bertil Inhomogeneous conditions at open boundaries for wave propagation problems. **89b:65212**

Halpern, Laurence *see* **Bamberger, A.; et al., 89h:35225** *and* **89h:35226**

Hunter, J. K. (*with* Keller, J. B.) Nonlinear hyperbolic waves. **89f:35129**

John, Fritz Existence for large times of finite amplitude elastic waves arising from small disturbances. **89d:35032**

Joly, Patrick *see* **Bamberger, A.; et al., 89h:35225** *and* **89h:35226**

Kashcheev, V. N. Kinks in systems with cubic and quartic anharmonism. **89i:81018**

Keller, J. B. *see* **Hunter, J. K., 89f:35129**

Kholin, N. N. *see* **Andriankin, È. I.; et al., 89k:73027**

Kovenskiĭ, S. Yu. (*with* Tikhonravov, A. V.) Synthesis of absorbing layered media. (Russian) **89f:76071**

Kukudzhanov, V. N. Numerical modeling of wave propagation in elastoplastic bodies taking into account finite deformations and fracture. (Russian) (*see* **89j:73002**)

Kumar, Rajive^1 (*with* Chadha, T. K.) Lamb's plane problem in micropolar elastic half-space with stretch. (Russian summary) **89d:73003**

Lim, Chee Seng A class of problems of pulsatory radiation from a travelling source distribution. **89d:35165**

Lin, Zhong Xiang *see* **Dai, Tian Min; et al., 89c:73008**

Liu, Meng-Ru *see* **Malkus, David S.; et al., 89d:73038**

Malkus, David S. (*with* Plesha, Michael E.; Liu, Meng-Ru) Reversed stability conditions in transient finite element analysis. **89d:73038**

(Maugin, Gérard A.) *see* **Recent developments in surface acoustic waves, 89g:73001**

Orazov, M. B. *see* **Annanurov, B. B., 89e:73009**

(Parker, David F.) *see* **Recent developments in surface acoustic waves, 89g:73001**

Pipkin, A. C. Asymptotic behaviour of viscoelastic waves. **89a:73033**

Plesha, Michael E. *see* **Malkus, David S.; et al., 89d:73038**

Plohr, B. (*with* Sharp, David H.) A conservative Eulerian formulation of the equations for elastic flow. **89k:73006**

Santos, Juan Enrique (*with* Douglas, Jim, Jr.; Calderón, Alberto Pedro) Finite element methods for a composite model in elastodynamics. **89b:65277**

— *see also* **Douglas, Jim, Jr.,** (**89c:65004**)

Sharp, David H. *see* **Plohr, B., 89k:73006**

Staat, M. (*with* Ballmann, J.) Fundamental aspects of numerical methods for the propagation of multi-dimensional nonlinear waves in solids. (*see* **89j:35007**)

Stacey, Richard Improved transparent boundary formulations for the elastic-wave equation. **89m:86013**

Suveĭka, I. V. Asymptotic behavior of the solutions of basic mixed problems in the exterior of a compact set for an equation of the propagation of perturbations in elastoviscous media. (Russian) **89h:35047**

Taran, È. P. Invariant solutions of dynamic equations of an orthotropic medium. (Russian) **89i:58163**

Tikhonravov, A. V. *see* **Kovenskiĭ, S. Yu., 89f:76071**

Yang, De Pin *see* **Dai, Tian Min; et al., 89c:73008**

Items listed otherwise than by author

Colloquium:

Recent Developments in Surface Acoustic Waves ★ Recent developments in surface acoustic waves. **89g:73001**

Nottingham ★ Recent developments in surface acoustic waves. **89g:73001**

Recent developments in surface acoustic waves ★ Recent developments in surface acoustic waves. **89g:73001**

73Exx Plasticity

Items with secondary classifications in 73Exx

Haslinger, J. *see* **Hlaváček, I.; et al., 89i:73003**

Hlaváček, I. (*with* Haslinger, J.; Nečas, Jindřich; Lovíšek, J.) ★ Solution of variational inequalities in mechanics. **89i:73003**

(Jarník, Jiří) *see* **Hlaváček, I.; et al., 89i:73003**

Lovíšek, J. *see* **Hlaváček, I.; et al., 89i:73003**

Nečas, Jindřich *see* **Hlaváček, I.; et al., 89i:73003**

73E05 Yield criteria and flow rules

Atluri, S. N. *see* **Im, S.; et al., 89k:73025**

Boehler, J.-P. Yielding and failure of transversely isotropic solids. (*see* **89m:73002**)

— On a rational formulation of isotropic and anisotropic hardening. (*see* **89m:73002**)

— Anisotropic hardening of rolled sheet-steel. (*see* **89m:73002**)

Im, S. (*with* Watanabe, O.; Atluri, S. N.) Observations on phenomenological plasticity theories and constitutive modelling of finite deformation elastoplasticity based upon an internal time concept. **89k:73025**

Lucchesi, M. (*with* Podio-Guidugli, P.) Materials with elastic range and the possibility of stress oscillations in pure shear. **89g:73020**

Nyashin, Yu. I. *see* **Pozdeev, A. A.; et al., 89j:73041**

Pitman, E. Bruce *see* **Schaeffer, David G., 89m:73018**

Podio-Guidugli, P. *see* **Lucchesi, M., 89g:73020**

Pozdeev, A. A. (*with* Trusov, P. V.; Nyashin, Yu. I.) ★ Большие упруго-пластические деформации. (Russian) [Large elastoplastic deformations] **89j:73041**

Pukhnacheva, T. P. Determination of a yield criterion for a plane problem of plasticity theory in the linearized case. (Russian) **89e:73015**

Reed, Martin Brian Stresses and displacements around a cylindrical cavity in soft rock. (Not in MR)

Schaeffer, David G. (*with* Pitman, E. Bruce) Ill-posedness in three-dimensional plastic flow. **89m:73018**

Trusov, P. V. *see* **Pozdeev, A. A.; et al., 89j:73041**

Watanabe, O. *see* **Im, S.; et al., 89k:73025**

Items with secondary classifications in 73E05

(Betten, J.) *see* **Applications of tensor functions in solid mechanics, 89m:73002**

(Boehler, J.-P.) *see* **Applications of tensor functions in solid mechanics, 89m:73002**

Feijóo, R. A. (*with* Zouain, N.) Formulations in rates and increments for elastic-plastic analysis. **89e:73002**

Govindjee, S. *see* **Simo, J. C.; et al., 89i:73009**

Karamanlidis, Dimitrios On a modified Hellinger/Reissner variational theorem for the analysis of elastoplastic solids. **89f:73029**

Kennedy, J. G. *see* **Simo, J. C.; et al., 89i:73009**

Maier, Giulio (*with* Novati, G.) Deformation bounds for elastic-plastic discrete structures with piecewise linear yield locus and nonlinear hardening. **89j:73045**

Novati, G. *see* **Maier, Giulio, 89j:73045**

Polizzotto, C. A consistent formulation of the BEM within elastoplasticity. **89c:73005**

Simo, J. C. (*with* Kennedy, J. G.; Govindjee, S.) Nonsmooth multisurface plasticity and viscoplasticity. Loading/unloading conditions and numerical algorithms. **89i:73009**

(Spencer, A. J. M.) *see* **Applications of tensor functions in solid mechanics, 89m:73002**

Zouain, N. *see* **Feijóo, R. A., 89e:73002**

Zubchaninov, V. G. Theory of the stability of plates and shells beyond the limits of elasticity under complex loading. (Russian) **89g:73024**

Items listed otherwise than by author

Applications of tensor functions in solid mechanics ★ Applications of tensor functions in solid mechanics. **89m:73002**

73E10 Method of successive approximations

Gelin, J. C. (*with* Picart, P.) Use of quasi-Newton methods for large strain elastic-plastic finite element computations. **89d:73022**

Picart, P. *see* **Gelin, J. C., 89d:73022**

Shardakov, I. N. Theoretical aspects of the method of geometric imbedding for boundary value problems of an elastoplastic body. (Russian) **89h:73022**

Items with secondary classifications in 73E10

Zieliński, A. P. Trefftz method: elastic and elastoplastic problems. **89d:65103**

73E20 Limit analysis

Bjerager, Peter *see* **Madsen, Henrik O., 89j:73043**

Gao, Yang On the complementary bounding theorems for limit analysis. **89i:73029**

Hu, Yu Ren The application of graph theory to the limit analysis for torsion of thin-walled bars. **89j:73042**

Madsen, Henrik O. (*with* Bjerager, Peter) Reliability of ideal plastic systems based on lower-bound theorem. **89j:73043**

Morelle, P. A finite element lower bound formulation for thermomechanical shakedown analysis of continua with variable yield stress. **89i:73030**

Pellegrino, S. "Upper-bound" plastic collapse analysis of frameworks. (*see* **89c:73030**)

Xu, Yue Heng (*with* Yang, Hai Yuan) Subdomain bounding technique for large scale shakedown analysis. **89k:73026**

Yang, Hai Yuan *see* **Xu, Yue Heng, 89k:73026**

Items with secondary classifications in 73E20

Banichuk, N. V. (*with* Kobelev, V. V.) On optimal plastic anisotropy. **89f:73054**

Ditlevsen, O. Reliability computations for rigid plastic frames with general yield conditions. **89j:73080**

Feijóo, R. A. (*with* Zouain, N.) Variational formulations for rates and increments in plasticity. **89f:73027**

Kobelev, V. V. *see* **Banichuk, N. V., 89f:73054**

Serëgin, G. A. On the differentiability of extremals of variational problems of the mechanics of ideally elastoplastic media. (Russian) **89d:49008**

Zouain, N. *see* **Feijóo, R. A., 89f:73027**

73E25 Creep

Items with secondary classifications in 73E25

Atluri, S. N. *see* **Im, S.; et al., 89k:73025**

Buonocore, Pasquale Some isoperimetric inequalities in a special case of the problem of torsional creep. **89d:35057**

Edelen, Dominic G. B. On solving problems in the mechanics of solids and fluids by a generalized method of characteristics. **89i:76026**

Guz′, A. N. Theory of long-duration fracture of composite materials under compression. **89j:73089**

Hsu, Tai Ran ★ The finite element method in thermomechanics. **89g:73005**

Im, S. (*with* Watanabe, O.; Atluri, S. N.) Observations on phenomenological plasticity theories and constitutive modelling of finite deformation elastoplasticity based upon an internal time concept. **89k:73025**

Li, Fang Zhong (*with* Needleman, A.; Shih, C. F.) Creep crack growth by grain boundary cavitation: crack tip fields and crack growth rates under transient conditions. (French summary) **89j:73090**

Needleman, A. *see* **Li, Fang Zhong; et al., 89j:73090**

Shih, C. F. *see* **Li, Fang Zhong; et al., 89j:73090**

Watanabe, O. *see* **Im, S.; et al., 89k:73025**

73E50 Time-dependent problems

Andriankin, È. I. (*with* Andrushchenko, V. A.; Kholin, N. N.) Numerical methods for solving three-dimensional time-dependent problems of the dynamics of elastoplastic media. (Russian) **89k:73027**

Andrushchenko, V. A. *see* **Andriankin, È. I.; et al., 89k:73027**

Erber, T. (*with* Guralnick, S. A.) Hysteresis and incremental collapse: the iterative evolution of a complex system. **89a:73027**

Guralnick, S. A. *see* **Erber, T., 89a:73027**

Kholin, N. N. *see* **Andriankin, È. I.; et al., 89k:73027**

Matthies, Hermann G. A decomposition method for the integration of the elastic-plastic rate problem. **89k:73028**

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Colombeau, J.-F. Generalized functions; multiplication of distributions; applications to elasticity, elastoplasticity, fluid dynamics and acoustics. (*see* **89i:00025**)

De Simone, P. Analysis of Coulomb isotropic hardening media by means of characteristics. **89i:73031**

Kukudzhanov, V. N. Numerical modeling of wave propagation in elastoplastic bodies taking into account finite deformations and fracture. (Russian) (*see* **89j:73002**)

Romenskiĭ, E. I. Godunov's difference scheme for one-dimensional relaxation equations of thermoelastoplasticity. (Russian) **89e:73005**

Steinbach, Jörg Existenzsätze für eine Klasse von evolutionären Variationsungleichungen. [Existence theorems for a class of evolutionary variational inequalities] **89j:58023**

Stephan, Y. (*with* Temam, Roger) Finite element computation of discontinuous solutions in the perfect plasticity theory. (*see* **89c:73030**)

Temam, Roger *see* **Stephan, Y., (89c:73030)**

73E99 None of the above, but in this section

Annin, B. D. Development of methods for solving elastoplastic problems. (Russian) (*see* **89j:73002**)

Betten, J. Tensor function theory and classical plastic potential. (*see* **89m:73002**)

Bunimovich, A. I. (*with* Yakunina, G. E.) On the shape of minimum-resistance solids of revolution moving in plastically compressible and elastic-plastic media. **89j:73044**

Chan, Andrew H. C. (*with* Zienkiewicz, O. C.; Pastor, M.) Transformation of incremental plasticity relation from defining space to general Cartesian stress space. **89d:73023**

Coleman, Bernard D. (*with* Hodgdon, Marion L.) A theory of shear bands. (*see* **89f:73004**)

Corradi, Leone (*with* Poggi, Carlo) Estimates of the post-shakedown response of hardening structures by means of simplified computations. (Italian summary) **89g:73021**
Denda, M. A complex variable Green's function representation of plane inelastic deformation in isotropic solids. **89f:73026**
De Simone, P. Analysis of Coulomb isotropic hardening media by means of characteristics. **89i:73031**
Dudar', O. I. *see* **Trusov, P. V.; et al., (89b:00008)**
Durban, D. (*with* Stronge, W. J.) End effects in instantaneous torsion of initially stretched elastoplastic cylinders. **89i:73032**
Feijóo, R. A. (*with* Zouain, N.) Variational formulations for rates and increments in plasticity. **89f:73027**
Gasanov, A. I. Mathematical principles of the nondestructive diagnosis of an elastoplastic medium (theory and computational experiment). (Russian. English summary) **89f:73028**
— An inverse problem of nondestructive diagnostics of an elastoplastic medium. **89c:73029**
Griffin, T. B. (*with* Reddy, B. D.; Martin, John B.) A numerical study of holonomic approximations to problems in plasticity. **89b:73018**
(Hinton, E.) *see* **Computational plasticity, 89c:73030**
Hodgdon, Marion L. *see* **Coleman, Bernard D., (89f:73004)**
Huang, Yong Jian Variational principles for a rigid-plastic body in a completely plastic state. (Chinese. English summary) **89i:73033**
Karamanlidis, Dimitrios On a modified Hellinger/Reissner variational theorem for the analysis of elastoplastic solids. **89f:73029**
Kleiber, Michał (*with* Mróz, Z.) Computer-aided inelastic analysis for design and instruction. (*see* **89c:73030**)
Lubliner, Jacob Nonisothermal generalized plasticity. **89a:73028**
Maier, Giulio (*with* Novati, G.) Deformation bounds for elastic-plastic discrete structures with piecewise linear yield locus and nonlinear hardening. **89j:73045**
Martin, John B. Integration along the path of loading in elastic-plastic problems. (*see* **89c:73030**)
— *see also* **Griffin, T. B.; et al., 89b:73018**
Mróz, Z. *see* **Kleiber, Michał, (89c:73030)**
Novati, G. *see* **Maier, Giulio, 89j:73045**
(Oñate, E.) *see* **Computational plasticity, 89c:73030**
(Owen, D. R. J.) *see* **Computational plasticity, 89c:73030**
Pastor, M. *see* **Chan, Andrew H. C.; et al., 89d:73023**
Pitman, E. Bruce The stability of granular flow in converging hoppers. **89j:73046**
Poggi, Carlo *see* **Corradi, Leone, 89g:73021**
Reddy, B. D. *see* **Griffin, T. B.; et al., 89b:73018**
Rosenberg, Josef Variational formulation of unilateral problems in mechanics applied to plasticity. **89i:73034**
Selyaninov, A. A. (*with* Sobolev, A. V.) Investigation of the trajectory of a deformation with a break. (Russian) (*see* **89b:00008**)
Simo, J. C. Maximum plastic dissipation and the multiplicative decomposition in finite strain plasticity. (*see* **89c:73030**)
— A framework for finite strain elastoplasticity based on maximum plastic dissipation and the multiplicative decomposition. I. Continuum formulation. **89a:73029**
Sobolev, A. V. *see* **Selyaninov, A. A., (89b:00008)**
Stolbov, V. Yu. *see* **Trusov, P. V.; et al., (89b:00008)**
Stronge, W. J. *see* **Durban, D., 89i:73032**
Trusov, P. V. (*with* Stolbov, V. Yu.; Dudar', O. I.) Application of the theory of mean curvature in the investigation of processes for treating metal by pressure. (Russian) (*see* **89b:00008**)
Wu, Lan Cheng A note on the regularity of solutions to a nonlinear elliptic system from elasticity-plasticity theory. **89a:73030**
Yakunina, G. E. *see* **Bunimovich, A. I., 89j:73044**
Zhang, R. L. *see* **Zhong, Wan Xie, 89k:73029**
Zhong, Wan Xie (*with* Zhang, R. L.) Parametric variational principles and their quadratic programming solutions in plasticity. **89k:73029**
Zienkiewicz, O. C. *see* **Chan, Andrew H. C.; et al., 89d:73023**
Zouain, N. *see* **Feijóo, R. A., 89f:73027**

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Barcelona ★ Computational plasticity. Part I, II. **89c:73030**
Computational plasticity ★ Computational plasticity. Part I, II. **89c:73030**
Conference:
  Computational Plasticity ★ Computational plasticity. Part I, II. **89c:73030**

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Aleksandrov, Viktor Mikhaĭlovich (*with* Grishin, S. A.) State of stress and strain of a small neighbourhood of the apex of a wedge for a physical nonlinearity and different boundary conditions. **89j:73019**
— Contact problems in tribology. (Russian) (*see* **89j:73002**)
Arutyunyan, N. Kh. (*with* Radaev, Yu. N.) Elastoplastic torsion of prismatic rods. (Russian) **89a:73038**
Atkinson, Colin *see* **Bastero, C., 89i:73065**
Bakelman, Ilya J. Boundary value problems for n-dimensional Monge-Ampère equations and n-dimensional plasticity equations. I. **89i:35055**
Banerjee, Prasanta K. *see* **Henry, Donald P., Jr., 89g:73004b**
Banichuk, N. V. Structural design and optimization of elastoplastic constructions. (Russian) (*see* **89j:73002**)
Bastero, C. (*with* Atkinson, Colin) Incipient yielding at a debond crack tip under mixed mode loading. **89i:73065**
Chaboche, J. L. A review of computational methods for cyclic plasticity and viscoplasticity. (*see* **89c:73030**)
Cohen, Harley (*with* Muncaster, Robert G.) ★ The theory of pseudo-rigid bodies. **89i:73002**
Crisfield, M. A. Consistent schemes for plasticity computation with the Newton-Raphson method. (*see* **89c:73030**)
Doltsinis, J. St. (*with* Luginsland, J.; Nölting, S.) Some developments in the numerical simulation of metal forming processes. (*see* **89c:73030**)
Durban, D. *see* **Fleck, N. A., (Not in MR)**
Fleck, N. A. (*with* Durban, D.) Asymptotic fields at tip of conical notches and inclusions in a power hardening solid. (Not in MR)
Govindjee, S. *see* **Simo, J. C.; et al., 89i:73009**
Grishin, S. A. *see* **Aleksandrov, Viktor Mikhaĭlovich, 89j:73019**
Henry, Donald P., Jr. (*with* Banerjee, Prasanta K.) A new BEM formulation for two- and three-dimensional elastoplasticity using particular integrals. **89g:73004b**
Hlaváček, I. Shape optimization of elastoplastic bodies by the finite element method. **89f:73059**
Hoppe, Ronald H. W. Multigrid solutions to the elastic plastic torsion problem in multiply connected domains. **89a:73001**
Hsu, Tai Ran ★ The finite element method in thermomechanics. **89g:73005**
Kennedy, J. G. *see* **Simo, J. C.; et al., 89i:73009**
Khidirov, Yu. È. The one-sided elastoplastic bending of a rigidly fixed plate. (Russian) **89a:73040**
Léger, Alain (*with* Potier-Ferry, Michel) Bifurcations plastiques à partir d'un état inhomogène. (English summary) [Elastoplastic bifurcations from an inhomogeneous state] **89j:73056**
Li, Wen Long (*with* Zhang, Xiang Lin) On the convergence of elastoplastic boundary element analysis. **89m:73003**
Lo, Sai-Huen Stress evaluation algorithms for rate constitutive equations in finite deformation analysis. **89a:73002**
Luginsland, J. *see* **Doltsinis, J. St.; et al., (89c:73030)**
Muncaster, Robert G. *see* **Cohen, Harley, 89i:73002**
Nölting, S. *see* **Doltsinis, J. St.; et al., (89c:73030)**
Potier-Ferry, Michel *see* **Léger, Alain, 89j:73056**
Radaev, Yu. N. *see* **Arutyunyan, N. Kh., 89a:73038**
Shvab, A. A. Determination of the stress field in an inelastic body from the value of the load and displacement vectors, given on part of the surface of the body. (Russian) **89d:73024**
Simo, J. C. (*with* Kennedy, J. G.; Govindjee, S.) Nonsmooth multisurface plasticity and viscoplasticity. Loading/unloading conditions and numerical algorithms. **89i:73009**
Trusov, P. V. On a generalization of Il'yushin's theory of elastoplastic processes to the case of large plastic deformations. (Russian) **89h:73025**
Visintin, A. Mathematical models of hysteresis. **89j:82096**
Wang, Zi Qiang Plane strain problem of growing crack for a perfectly plastic solid. **89d:73045**
Zhang, Xiang Lin *see* **Li, Wen Long, 89m:73003**
Zubchaninov, V. G. Theory of the stability of plates and shells beyond the limits of elasticity under complex loading. (Russian) **89g:73024**

73Fxx Viscoelasticity

73F05 Creep and relaxation functions

Bavaud, François Statistical mechanics of viscoelasticity. **89a:73031**
Fabrizio, M. (*with* Morro, A.) Viscoelastic relaxation functions compatible with thermodynamics. **89m:73019**
Guerriero, Gabriele On the stability problem for the exterior linear viscoelasticity. **89j:73047**
Manole, D. Inégalités dissipatives et viscoélasticité linéaire avec microstructure. [Dissipation inequalities and linear viscoelasticity with microstructure] **89j:73048**
Morro, A. *see* **Fabrizio, M., 89m:73019**
Nicklason, G. R. The asymptotic form of shocks in relaxing media. **89e:73016**
Shvab, A. A. Determination of the stress field in an inelastic body from the value of the load and displacement vectors, given on part of the surface of the body. (Russian) **89d:73024**

Items with secondary classifications in 73F05

D'Acunto, B. (*with* D'Anna, A.; Renno, P.) On the motion of a viscoelastic solid in the presence of a rigid wall. II. Impact laws for the hereditary case. Solution of the unilateral problem. **89e:73017**
D'Anna, A. *see* **D'Acunto, B.; et al., 89e:73017**
Golden, J. M. (*with* Graham, G. A. C.) ★ Boundary value problems in linear viscoelasticity. **89i:73035**
Graham, G. A. C. *see* **Golden, J. M., 89i:73035**
Nazarov, S. A. (*with* Trapeznikov, L. P.; Shoĭkhet, B. A.) On the correspondence principle in the plane creep problem of ageing homogeneous media with developing slits and cavities. **89j:73049**
Renno, P. *see* **D'Acunto, B.; et al., 89e:73017**
Shoĭkhet, B. A. *see* **Nazarov, S. A.; et al., 89j:73049**
Trapeznikov, L. P. *see* **Nazarov, S. A.; et al., 89j:73049**
Zabello, I. N. Solution in quadratures of a matrix integral equation. (Russian) **89c:45018**

73F10 Correspondence principle

Golden, J. M. (*with* Graham, G. A. C.) ★ Boundary value problems in linear viscoelasticity. **89i:73035**
Graham, G. A. C. *see* **Golden, J. M., 89i:73035**
Nazarov, S. A. (*with* Trapeznikov, L. P.; Shoĭkhet, B. A.) On the correspondence principle in the plane creep problem of ageing homogeneous media with developing slits and cavities. **89j:73049**
Shoĭkhet, B. A. *see* **Nazarov, S. A.; et al., 89j:73049**
Trapeznikov, L. P. *see* **Nazarov, S. A.; et al., 89j:73049**

73F15 Time-dependent boundary value problems

Agalarov, D. G. (*with* Ismailov, V. I.; Aliev, V. T.) Error estimates for the numerical solution of a problem of the propagation of visco-nonlinear elastic waves. (Russian. English and Azerbaijani summaries) **89k:73030**
Aliev, V. T. *see* **Agalarov, D. G.; et al., 89k:73030**

Badalov, F. B. (*with* Èshmatov, Kh.; Yusupov, M.) On certain methods of solving systems of integrodifferential equations encountered in viscoelasticity problems. (Not in MR)

Beevers, C. E. (*with* Šilhavý, M.) The asymptotic behavior of classical solutions to the mixed initial-boundary value problem in finite thermo-viscoelasticity. **89f:73030**

Brilla, Jozef Laplace transform-boundary element method for time dependent problems (invited contribution). **89i:73036**

Buhariwala, K. J. (*with* Hansen, J. S.) Dynamics of viscoelastic structures. **89c:73031**

Capriz, Gianfranco (*with* Virga, Epifanio G.) Examples of nonuniqueness in linear viscoelasticity. (Italian) **89h:73023**

— *see also* **Virga, Epifanio G.**, **89j:73052**

Carini, A. (*with* De Donato, O.) Quadratic extremum principles for finite strain rigid-viscoplastic dynamics of continua. **89f:73031**

Chełmiński, K. A mixed boundary value problem in linear thermoviscoelasticity. (Russian and Polish summaries) **89f:73032**

D'Acunto, B. (*with* D'Anna, A.; Renno, P.) On the motion of a viscoelastic solid in the presence of a rigid wall. II. Impact laws for the hereditary case. Solution of the unilateral problem. **89e:73017**

D'Anna, A. *see* **D'Acunto, B.; et al.**, **89e:73017**

De Donato, O. *see* **Carini, A.**, **89f:73031**

Desch, W. (*with* Grimmer, R.) Singular relaxation moduli and smoothing in three-dimensional viscoelasticity. **89k:73031**

Èshmatov, Kh. *see* **Badalov, F. B.; et al.**, (Not in MR)

Făciu, C. (*with* Mihăilescu-Suliciu, M.) The energy in one-dimensional rate-type semilinear viscoelasticity. **89a:73032**

Filatova, O. A. Analysis of the high-frequency vibrations of a viscoelastic rod. (Russian) (*see* **89c:00019**)

Grimmer, R. *see* **Desch, W.**, **89k:73031**

Hansen, J. S. *see* **Buhariwala, K. J.**, **89c:73031**

Ionescu, Ioan R. (*with* Sofonea, Mircea) Quasistatic processes for elastic-viscoplastic materials. **89j:73050**

Ismailov, V. I. *see* **Agalarov, D. G.; et al.**, **89k:73030**

Klimov, V. S. (*with* Semko, E. R.) On the well-posedness of nonstationary boundary value problems of the mechanics of viscoplastic media. **89e:73018**

Lazzari, B. (*with* Vuk, Elena) An existence and uniqueness theorem for a dynamical problem in linear viscoelasticity. (Italian. English summary) **89m:73020**

Luca, Ioana Singular surfaces of order 1 in linear homogeneous isotropic thermoviscoelastic materials of integral type. **89b:73019**

Mihăilescu-Suliciu, M. *see* **Făciu, C.**, **89a:73032**

Mikhlin, Yu. V. (*with* Morgunov, B. I.) Investigation of the quasinormal oscillations of nonlinear viscoelastic systems. (Russian) **89e:73019**

Miloslavskiĭ, A. I. Stability of a viscoelastic isotropic medium. **89c:73032**

Morgunov, B. I. *see* **Mikhlin, Yu. V.**, **89e:73019**

Pego, Robert L. Phase mixtures in nonlinear viscoelasticity in one dimension. **89j:73051**

Pipkin, A. C. Asymptotic behaviour of viscoelastic waves. **89a:73033**

— *see also* **Warhola, G. T.**, **89c:73033**

Renno, P. *see* **D'Acunto, B.; et al.**, **89e:73017**

Semko, E. R. *see* **Klimov, V. S.**, **89e:73018**

Šilhavý, M. *see* **Beevers, C. E.**, **89f:73030**

Sofonea, Mircea *see* **Ionescu, Ioan R.**, **89j:73050**

Virga, Epifanio G. (*with* Capriz, Gianfranco) A uniqueness theorem in linear viscoelasticity. (Italian. English summary) **89j:73052**

— *see also* **Capriz, Gianfranco**, **89h:73023**

Vuk, Elena *see* **Lazzari, B.**, **89m:73020**

Warhola, G. T. (*with* Pipkin, A. C.) Rayleigh's problem for viscoelastic materials. **89c:73033**

Yusupov, M. *see* **Badalov, F. B.; et al.**, (Not in MR)

Items with secondary classifications in 73F15

Badalov, F. B. (*with* Khuzhayarov, N. Yu.) A method for the exact solution of integro-differential equations of dynamic problems of the linear theory of viscoelasticity. **89i:65138**

Corones, James (*with* Karlsson, Anders) Transient direct and inverse scattering for inhomogeneous viscoelastic media: obliquely incident SH mode. **89m:73016**

Cui, Shang Bin Initial-boundary value problems for semilinear hyperbolic convolutional integro-differential equations. (Chinese. English summary) **89k:35143**

Dáng Dình Áng *see* **Pham Ngoc Dinh, A.**, (**89j:35007**)

Desch, W. (*with* Grimmer, R.) Smoothing properties of linear Volterra integro-differential equations. **89m:45014**

Èshmatov, Kh. *see* **Sharova, L. V.**, **89e:73021**

Fabrizio, M. (*with* Morro, A.) Viscoelastic relaxation functions compatible with thermodynamics. **89m:73019**

Gaeva, E. A. (*with* Kolomiets, V. G.) Asymptotic solutions of nonlinear integro-partial differential equations. (Russian) **89j:45008**

Golden, J. M. (*with* Graham, G. A. C.) ★ Boundary value problems in linear viscoelasticity. **89i:73035**

Graham, G. A. C. *see* **Golden, J. M.**, **89i:73035**

Grimmer, R. *see* **Desch, W.**, **89m:45014**

Guerriero, Gabriele On the stability problem for the exterior linear viscoelasticity. **89j:73047**

Hannsgen, Kenneth B. (*with* Renardy, Yuriko; Wheeler, Robert L.) Effectiveness and robustness with respect to time delays of boundary feedback stabilization in one-dimensional viscoelasticity. **89k:93165**

Hicks, D. *see* **Kuttler, Kenneth**, **89k:35147**

Hrusa, William J. (*with* Renardy, Michael) A model equation for viscoelasticity with a strongly singular kernel. **89d:35159**

— *see also* **Renardy, Michael; et al.**, **89b:35134**

Itskovitš, M. A. *see* **Lokshin, A. A.**, **89j:73027**

Kalantarov, V. K. Global behavior of the solutions of an initial-boundary value problem for a class of systems of nonlinear equations. (Russian. English and Azerbaijani summaries) **89j:35027**

Kal'ts, A. L. *see* **Zhubaev, N. Zh.; et al.**, **89g:73015**

Karlsson, Anders *see* **Corones, James**, **89m:73016**

Karymsakov, K. U. *see* **Zhubaev, N. Zh.; et al.**, **89g:73015**

Khuzhayarov, N. Yu. *see* **Badalov, F. B.**, **89i:65138**

Kim, V. T. *see* **Zhubaev, N. Zh.; et al.**, **89g:73015**

Kolomiets, V. G. *see* **Gaeva, E. A.**, **89j:45008**

Kozhabekov, Zh. T. *see* **Zhubaev, N. Zh.; et al.**, **89g:73015**

Kuttler, Kenneth (*with* Hicks, D.) Initial-boundary value problems for the equation $u_{tt} = (\sigma(u_x))_x + (\alpha(u_x)u_{xt})_x + f$. **89k:35147**

Lin, Yanping A mixed type boundary problem describing the propagation of disturbances in viscous media. I. Weak solutions for quasi-linear equations. **89j:35074**

Liu, Tai-Ping Nonlinear waves for viscoelasticity with fading memory. **89m:35149**

Lokshin, A. A. (*with* Itskovitš, M. A.) A note concerning generalization of the Landau method for waves in nonlinear hereditary media. **89j:73027**

Luca, Ioana Thermoacoustical waves in linear homogeneous isotropic thermoviscoelastic materials of integral type. **89m:73017**

Mamedov, Yu. A. Solution of a mixed problem of viscoelasticity. (Russian. English and Azerbaijani summaries) **89d:35167**

Morro, A. *see* **Fabrizio, M.**, **89m:73019**

Nazarov, S. A. (*with* Trapeznikov, L. P.; Shoĭkhet, B. A.) On the correspondence principle in the plane creep problem of ageing homogeneous media with developing slits and cavities. **89j:73049**

Nohel, John A. (*with* Rogers, R. C.; Tzavaras, A. E.) Weak solutions for a nonlinear system in viscoelasticity. **89h:35063**

— *see also* **Renardy, Michael; et al.**, **89b:35134**

Nurzhanova, Sh. Zh. *see* **Zhubaev, N. Zh.; et al.**, **89g:73015**

Orlov, V. P. (*with* Sobolevskiĭ, P. E.) Solvability of longitudinal oscillations of a viscoelastic one-dimensional continuum. (Russian. English summary) **89h:73020**

Pham Ngoc Dinh, A. (*with* Dáng Dình Áng) On some viscoelastic strongly damped nonlinear wave equations. (*see* **89j:35007**)

Prüss, Jan Positivity and regularity of hyperbolic Volterra equations in Banach spaces. **89h:45004**

Renardy, Michael (*with* Hrusa, William J.; Nohel, John A.) ★ Mathematical problems in viscoelasticity. **89b:35134**

— Coercive estimates and existence of solutions for a model of one-dimensional viscoelasticity with a nonintegrable memory function. **89k:45009**

— *see also* **Hrusa, William J.**, **89d:35159**

Renardy, Yuriko *see* **Hannsgen, Kenneth B.; et al.**, **89k:93165**

Rogers, R. C. *see* **Nohel, John A.; et al.**, **89h:35063**

Sarsenov, B. Sh. *see* **Zhubaev, N. Zh.; et al.**, **89g:73015**

Sharova, L. V. (*with* Èshmatov, Kh.) Dynamic stability of a viscoelastic rod with a viscoelastic base. (Russian) **89e:73021**

Shoĭkhet, B. A. *see* **Nazarov, S. A.; et al.**, **89j:73049**

Simitses, George J. *see* **Stubstad, John M.**, **89i:73041**

Sinyaev, A. Ya. *see* **Zhubaev, N. Zh.; et al.**, **89g:73015**

Sobolevskiĭ, P. E. *see* **Orlov, V. P.**, **89h:73020**

Stubstad, John M. (*with* Simitses, George J.) Solution methods for one-dimensional viscoelastic problems. **89i:73041**

Suveĭka, I. V. Asymptotic behavior of the solutions of basic mixed problems in the exterior of a compact set for an equation of the propagation of perturbations in elastoviscous media. (Russian) **89h:35047**

Trapeznikov, L. P. *see* **Nazarov, S. A.; et al.**, **89j:73049**

Turekulova, A. N. *see* **Zhubaev, N. Zh.; et al.**, **89g:73015**

Tzavaras, A. E. *see* **Nohel, John A.; et al.**, **89h:35063**

Wheeler, Robert L. *see* **Hannsgen, Kenneth B.; et al.**, **89k:93165**

Zhubaev, N. Zh. (*with* Kal'ts, A. L.; Karymsakov, K. U.; Kim, V. T.; Kozhabekov, Zh. T.; Nurzhanova, Sh. Zh.; Sarsenov, B. Sh.; Sinyaev, A. Ya.; Turekulova, A. N.) ★ Численные методы исследования двухмерных волн напряжений (в упругих и упругопластических средах). (Russian) [Numerical methods for the study of two-dimensional stress waves (in elastic and elastoplastic media)] **89g:73015**

73F20 Aging of materials

Arutyunyan, N. Kh. (*with* Drozdov, A. D.; Kolmanovskiĭ, V. B.) Stability of viscoelastic bodies and of elements of constructions. (Russian. English summary) **89a:73034**

Drozdov, A. D. *see* **Arutyunyan, N. Kh.; et al.**, **89a:73034**

Kolmanovskiĭ, V. B. *see* **Arutyunyan, N. Kh.; et al.**, **89a:73034**

Marcus, Moshe M. (*with* Mizel', Victor J.) Dynamical behavior under random perturbation of materials with selective recall. **89a:73035**

Mizel, Victor J. *see* **Marcus, Moshe M.**, **89a:73035**

Items with secondary classifications in 73F20

Capriz, Gianfranco (*with* Virga, Epifanio G.) Examples of nonuniqueness in linear viscoelasticity. (Italian) **89h:73023**

Drozdov, A. D. (*with* Zhukhovitskiĭ, D. M.) Stability of circular plates from ageing viscoelastic material. **89c:73048**

Golden, J. M. (*with* Graham, G. A. C.) ★ Boundary value problems in linear viscoelasticity. **89i:73035**

Graham, G. A. C. *see* **Golden, J. M.**, **89i:73035**

Manzhirov, A. V. Contact problems of the interaction between viscoelastic foundations subjected to aging and systems of stamps not applied simultaneously. **89k:73062**

Nazarov, S. A. (*with* Trapeznikov, L. P.; Shoĭkhet, B. A.) On the correspondence principle in the plane creep problem of ageing homogeneous media with developing slits and cavities. **89j:73049**

Shoĭkhet, B. A. *see* **Nazarov, S. A.; et al.**, **89j:73049**

Trapeznikov, L. P. *see* **Nazarov, S. A.; et al.**, **89j:73049**

Virga, Epifanio G. *see* **Capriz, Gianfranco**, **89h:73023**

Zhukhovitskiĭ, D. M. *see* **Drozdov, A. D.**, **89c:73048**

73F30 Viscoplasticity

Le Tallec, Patrick Numerical solution of viscoplastic flow problems by augmented Lagrangians. **89k:73032**
Nikitin, L. V. Directions of the development of models of elastoviscoplastic bodies. (Russian) (*see* **89j:73002**)
Şabac, Mihai *see* **Suliciu, I., 89b:73020**
Suliciu, I. (*with* Şabac, Mihai) Energy estimates in one-dimensional rate-type viscoplasticity. **89b:73020**

Items with secondary classifications in 73F30

Aubry, Denis *see* **Guennouni, Tajeddine, 89j:73092**
Carini, A. (*with* De Donato, O.) Quadratic extremum principles for finite strain rigid-viscoplastic dynamics of continua. **89f:73031**
De Donato, O. *see* **Carini, A., 89f:73031**
Galiev, Sh. U. ★ Нелинейные волны в ограниченных сплошных средах. (Russian) [Nonlinear waves in bounded continua] **89i:73042**
Govindjee, S. *see* **Simo, J. C.; et al., 89i:73009**
Guennouni, Tajeddine (*with* Aubry, Denis) Réponse homogénéisée en temps de structures sous chargements cycliques. (English summary) [Time-homogenized response of structures under cyclic loadings] **89j:73092**
Ibragimov, V. A. (*with* Nifagin, V. A.) Convergence of the expansion method with respect to the loading parameter in problems of elastoplastic deformation of rods. (Russian) (Not in MR)
Ionescu, Ioan R. (*with* Sofonea, Mircea) Quasistatic processes for elastic-viscoplastic materials. **89j:73050**
Kal'ts, A. L. *see* **Zhubaev, N. Zh.; et al., 89g:73015**
Karymsakov, K. U. *see* **Zhubaev, N. Zh.; et al., 89g:73015**
Kennedy, J. G. *see* **Simo, J. C.; et al., 89i:73009**
Kim, V. T. *see* **Zhubaev, N. Zh.; et al., 89g:73015**
Klimov, V. S. (*with* Semko, E. R.) Solvability of boundary value problems in the mechanics of viscoplastic media. **89j:35118**
— (*with* Semko, E. R.) On the well-posedness of nonstationary boundary value problems of the mechanics of viscoplastic media. **89e:73018**
Kozhabekov, Zh. T. *see* **Zhubaev, N. Zh.; et al., 89g:73015**
Kravchuk, A. S. Solution by variational methods of nonlinear contact problems taking friction into account. (Russian) (*see* **89j:73002**)
Licht, Christian (*with* Suquet, Pierre) Potentiel viscoplastique d'un milieu poreux et croissance de cavités. (English summary) [Viscoplastic potential of a porous material and cavity growth] **89m:73030**
Nifagin, V. A. *see* **Ibragimov, V. A.**, (Not in MR)
Nurzhanova, Sh. Zh. *see* **Zhubaev, N. Zh.; et al., 89g:73015**
Sarsenov, B. Sh. *see* **Zhubaev, N. Zh.; et al., 89g:73015**
Semko, E. R. *see* **Klimov, V. S., 89e:73018** *and* **89j:35118**
Serëgin, G. A. On the differentiability of local extremals of variational problems of the mechanics of rigidly viscoplastic media. (Russian) **89b:49032**
Simo, J. C. (*with* Kennedy, J. G.; Govindjee, S.) Nonsmooth multisurface plasticity and viscoplasticity. Loading/unloading conditions and numerical algorithms. **89i:73009**
Sinyaev, A. Ya. *see* **Zhubaev, N. Zh.; et al., 89g:73015**
Sobotka, Zdeněk Different viscosities at the positive and negative shear flow of structured liquids. (Not in MR)
Sofonea, Mircea *see* **Ionescu, Ioan R., 89j:73050**
Suquet, Pierre *see* **Licht, Christian, 89m:73030**
Turekulova, A. N. *see* **Zhubaev, N. Zh.; et al., 89g:73015**
Zhubaev, N. Zh. (*with* Kal'ts, A. L.; Karymsakov, K. U.; Kim, V. T.; Kozhabekov, Zh. T.; Nurzhanova, Sh. Zh.; Sarsenov, B. Sh.; Sinyaev, A. Ya.; Turekulova, A. N.) ★ Численные методы исследования двухмерных волн напряжений (в упругих и упругопластических средах). (Russian) [Numerical methods for the study of two-dimensional stress waves (in elastic and elastoplastic media)] **89g:73015**

73F99 None of the above, but in this section

Brilla, Jozef Mathematical aspects of the theory of viscoelasticity. (*see* **89g:58004**)
Casas-Vázquez, J. *see* **Lebon, G.; et al., 89d:73025**
Gurtin, Morton E. (*with* Hrusa, William J.) On energies for nonlinear viscoelastic materials of single-integral type. **89e:73020**
Hrusa, William J. *see* **Gurtin, Morton E., 89e:73020**
Lebon, G. (*with* Pérez-García, Carlos; Casas-Vázquez, J.) On the thermodynamic foundations of viscoelasticity. **89d:73025**
Pérez-García, Carlos *see* **Lebon, G.; et al., 89d:73025**

Items with secondary classifications in 73F99

Antman, Stuart S. (*with* Malek-Madani, Reza) Travelling waves in nonlinearly viscoelastic media and shock structure in elastic media. **89h:73017**
— A zero-dimensional shock. **89i:34027**
Badalov, F. B. (*with* Khashimov, Zh.) ★ Решение неоднородных и нелинейных краевых задач теории пластин и оболочек методом сведения к задачам Коши. (Russian) [Solution of nonhomogeneous and nonlinear boundary value problems in the theory of plates and shells by the method of reduction to Cauchy problems] **89k:73044**
Bailey, Paul B. (*with* Chen, Peter J.) On the local and global behavior of weak shocks and induced discontinuities in a class of materials with internal state variables. **89g:73017**
Banks, H. T. (*with* Gates, S. S.; Rosen, I. G.; Wang, Y.) The identification of a distributed parameter model for a flexible structure. **89f:73049**
Camarero, Ricardo *see* **Pelletier, Dominique; et al., 89j:76024**
Caviglia, Giacomo *see* **Morro, A., (89d:00007)**
Cheban, V. G. *see* **Filippov, I. G., 89i:73049**
Chen, Peter J. *see* **Bailey, Paul B., 89g:73017**
Chevalier, Y. Dispersion of harmonic waves in elastic and viscoelastic periodic composite materials. (*see* **89g:73001**)
Coussy, Olivier Un modèle de viscoélasticité confinée en mécanique de la rupture. Propagation subcritique. (English summary) [A small-scale viscoelastic model in fracture mechanics. Subcritical growth] **89j:73088**
Desch, W. (*with* Grimmer, R.; Schappacher, W.) Well-posedness and wave propagation for a class of integrodifferential equations in Banach space. **89e:45012**
Dobordzhginidze, L. G. A plane contact problem in elasticity theory for viscoelastic bodies. (Russian) **89c:73082**
Èshmatov, Kh. (*with* Mukhitdinova, M. I.; Mukhitdinov, T. M.) A modification of the freezing method for systems of integro-differential and integral equations encountered in problems of the theory of viscoelasticity. (Russian) **89f:45012**
Filippov, I. G. (*with* Cheban, V. G.) ★ Математическая теория колебаний упругих и вязкоупругих пластин и стержней. (Russian) [Mathematical theory of the oscillations of elastic and viscoelastic plates and rods] **89i:73049**
Fortin, Andre *see* **Pelletier, Dominique; et al., 89j:76024**
Gates, S. S. *see* **Banks, H. T.; et al., 89f:73049**
Grimmer, R. *see* **Desch, W.; et al., 89e:45012**
Khashimov, Zh. *see* **Badalov, F. B., 89k:73044**
Ladopoulos, E. G. On the numerical solution of the multi-dimensional singular integrals and integral equations, used in the theory of linear viscoelasticity. **89f:65142**
Malek-Madani, Reza *see* **Antman, Stuart S., 89h:73017**
Milton, G. W. Multicomponent composites, electrical networks and new types of continued fraction. II. **89b:82085**
Morro, A. (*with* Caviglia, Giacomo) Conservation laws for systems with memory. (*see* **89d:00007**)
Mukhitdinov, T. M. *see* **Èshmatov, Kh.; et al., 89f:45012**
Mukhitdinova, M. I. *see* **Èshmatov, Kh.; et al., 89f:45012**
Noren, Richard A singular limit problem for a linear Volterra equation. **89c:45005**
Pelletier, Dominique (*with* Fortin, Andre; Camarero, Ricardo) Are FEM solutions of incompressible flows really incompressible? (or how simple flows can cause headaches!). **89j:76024**
Rosen, I. G. *see* **Banks, H. T.; et al., 89f:73049**
Schappacher, W. *see* **Desch, W.; et al., 89e:45012**
Wang, Y. *see* **Banks, H. T.; et al., 89f:73049**

73Gxx Finite deformations

73G05 Finite elasticity

Abeyaratne, Rohan (*with* Knowles, James K.) Nonelliptic elastic materials and the modeling of dissipative mechanical behavior: an example. **89g:73022**
Aron, M. A note on undistorted states of isotropic elastic solids. **89b:73021**
Beatty, Millard F. Finite amplitude, periodic motion of a body supported by arbitrary isotropic, elastic shear mountings. **89j:73053**
Carroll, M. M. Finite strain solutions in compressible isotropic elasticity. **89f:73033**
Christoffersen, J. A class of initially isotropic elastic materials. **89d:73026**
Fedorov, S. I. Existence of a solution of a boundary value problem of a class of models of geometrically nonlinear elasticity for incompressible media. **89a:73036**
Fried, Isaac (*with* Johnson, Arthur R.) A note on elastic energy density functions for largely deformed compressible rubber solids. **89f:73034**
Gao, Yang Inverse variational principle in finite elasticity. **89f:73035**
Ieşan, D. Continuous dependence, uniqueness and existence theorems in nonlinear theory of elastic materials with voids. **89c:73034**
Johnson, Arthur R. *see* **Fried, Isaac, 89f:73034**
Knowles, James K. *see* **Abeyaratne, Rohan, 89g:73022**
Marzano, Salvatore On mean rotations in finite deformations. (Italian summary) **89c:73035**
Podio-Guidugli, P. A variational approach to live loadings in finite elasticity. **89c:73036**
Rosakis, Ares J. *see* **Rosakis, Phoebus, 89f:73036**
Rosakis, Phoebus (*with* Rosakis, Ares J.) The screw dislocation problem in incompressible finite elastostatics: a discussion of nonlinear effects. **89f:73036**
Scarpetta, Edoardo On uniqueness in finite elastodynamics for unbounded bodies without strain energy function. (Russian summary) **89h:73024**
Silling, S. A. Consequences of the Maxwell relation for anti-plane shear deformations of an elastic solid. **89i:73037**

Items with secondary classifications in 73G05

Antman, Stuart S. (*with* Negrón-Marrero, Pablo V.) The remarkable nature of radially symmetric equilibrium states of aeolotropic nonlinearly elastic bodies. **89c:73023**
Cardona, A. (*with* Geradin, M.) A beam finite element nonlinear theory with finite rotations. **89k:73042**
Cohen, Harley (*with* Muncaster, Robert G.) ★ The theory of pseudo-rigid bodies. **89i:73002**
DaDeppo, D. A. (*with* Keppel, W. J.) Betti's theorem for rotationally symmetric infinitesimal deformations superimposed on the finite deformation of a thin shell of revolution. **89i:73054**
Fonseca, Irene The lower quasiconvex envelope of the stored energy function for an elastic crystal. **89g:73042**
Geradin, M. *see* **Cardona, A., 89k:73042**
Huang, Su Jian A derivation of the large deflection equations for plates from a generalized variational principle based on finite deformations. (Chinese. English summary) **89f:73047**
Keppel, W. J. *see* **DaDeppo, D. A., 89i:73054**
Kravchuk, A. S. Solution by variational methods of nonlinear contact problems taking friction into account. (Russian) (*see* **89j:73002**)
Le Tallec, Patrick (*with* Lotfi, A.) Decomposition methods for adherence problems in finite elasticity. **89i:73070**
Lotfi, A. *see* **Le Tallec, Patrick, 89i:73070**
Mandel, Jan (*with* Ombe, Hitoshi) Fourier estimates for a multigrid method for three-dimensional elasticity. **89j:73006**
Muncaster, Robert G. *see* **Cohen, Harley, 89i:73002**
Negrón-Marrero, Pablo V. *see* **Antman, Stuart S., 89c:73023**

Ombe, Hitoshi *see* **Mandel, Jan, 89j:73006**
Plohr, B. (*with* Sharp, David H.) A conservative Eulerian formulation of the equations for elastic flow. **89k:73006**
Sharp, David H. *see* **Plohr, B., 89k:73006**
Valent, Tullio ★ Boundary value problems of finite elasticity. **89c:73001**

73G10 Strain energy functions

Bourgat, J.-F. (*with* Le Tallec, Patrick; Mani, S.) Modélisation et calcul des grands déplacements de tuyaux élastiques en flexion-torsion. (English summary) [Numerical simulation of the large displacements of elastic pipes in flexion and torsion] **89m:73021**
Chen, Yi-Chao Stability of pure homogeneous deformations of an elastic plate with fixed edges. **89i:73038**
Le Tallec, Patrick *see* **Bourgat, J.-F.; et al., 89m:73021**
Mani, S. *see* **Bourgat, J.-F.; et al., 89m:73021**
Pipkin, A. C. *see* **Steigmann, D. J., 89i:73039**
Steigmann, D. J. (*with* Pipkin, A. C.) Stability of harmonic materials in plane strain. **89i:73039**

Items with secondary classifications in 73G10

Carroll, M. M. Finite strain solutions in compressible isotropic elasticity. **89f:73033**
Fisher, Dawn Configuration dependent pressure potentials. **89m:73007**
Fried, Isaac (*with* Johnson, Arthur R.) A note on elastic energy density functions for largely deformed compressible rubber solids. **89f:73034**
Gurtin, Morton E. (*with* Hrusa, William J.) On energies for nonlinear viscoelastic materials of single-integral type. **89e:73020**
— (*with* Matano, Hiroshi) On the structure of equilibrium phase transitions within the gradient theory of fluids. **89j:49015**
Hrusa, William J. *see* **Gurtin, Morton E., 89e:73020**
Johnson, Arthur R. *see* **Fried, Isaac, 89f:73034**
Matano, Hiroshi *see* **Gurtin, Morton E., 89j:49015**

73G15 Finite viscoelasticity

Items with secondary classifications in 73G15

Beevers, C. E. (*with* Šilhavý, M.) The asymptotic behavior of classical solutions to the mixed initial-boundary value problem in finite thermo-viscoelasticity. **89f:73030**
Šilhavý, M. *see* **Beevers, C. E., 89f:73030**
Simitses, George J. *see* **Stubstad, John M., 89i:73041**
Stubstad, John M. (*with* Simitses, George J.) Solution methods for one-dimensional viscoelastic problems. **89i:73041**

73G20 Metal forming problems

Trusov, P. V. On a generalization of Il′yushin's theory of elastoplastic processes to the case of large plastic deformations. (Russian) **89h:73025**

Items with secondary classifications in 73G20

Atluri, S. N. *see* **Im, S.; et al., 89k:73025**
(Betten, J.) *see* **Applications of tensor functions in solid mechanics, 89m:73002**
(Boehler, J.-P.) *see* **Applications of tensor functions in solid mechanics, 89m:73002**
Im, S. (*with* Watanabe, O.; Atluri, S. N.) Observations on phenomenological plasticity theories and constitutive modelling of finite deformation elastoplasticity based upon an internal time concept. **89k:73025**
Lucchesi, M. (*with* Podio-Guidugli, P.) Materials with elastic range and the possibility of stress oscillations in pure shear. **89g:73020**
Podio-Guidugli, P. *see* **Lucchesi, M., 89g:73020**
(Spencer, A. J. M.) *see* **Applications of tensor functions in solid mechanics, 89m:73002**
Watanabe, O. *see* **Im, S.; et al., 89k:73025**

Items listed otherwise than by author

Applications of tensor functions in solid mechanics ★ Applications of tensor functions in solid mechanics. **89m:73002**

73G99 None of the above, but in this section

Haddow, J. B. (*with* Ogden, R. W.) Compression of bonded elastic bodies. **89g:73023**
Ogden, R. W. *see* **Haddow, J. B., 89g:73023**

Items with secondary classifications in 73G99

Abeyaratne, Rohan (*with* Knowles, James K.) Nonelliptic elastic materials and the modeling of dissipative mechanical behavior: an example. **89g:73022**
Dunwoody, J. (*with* Villaggio, P.) Self straining at the interface of two bonded hyperelastic half-spaces uniformly pre-stressed. **89j:73095**
Johnson, Arthur R. (*with* Quigley, C. J.) Element level elimination of nonlinear constraints in total Lagrangian finite element formulations. **89c:73004**
Knowles, James K. *see* **Abeyaratne, Rohan, 89g:73022**
Kukudzhanov, V. N. Numerical modeling of wave propagation in elastoplastic bodies taking into account finite deformations and fracture. (Russian) (*see* **89j:73002**)
Nyashin, Yu. I. *see* **Pozdeev, A. A.; et al., 89j:73041**
Pozdeev, A. A. (*with* Trusov, P. V.; Nyashin, Yu. I.) ★ Большие упруго-пластические деформации. (Russian) [Large elastoplastic deformations] **89j:73041**
Quigley, C. J. *see* **Johnson, Arthur R., 89c:73004**
Trusov, P. V. *see* **Pozdeev, A. A.; et al., 89j:73041**
Villaggio, P. *see* **Dunwoody, J., 89j:73095**

73Hxx Stability (linear and nonlinear)

73H05 Buckling

Aston, P. J. (*with* Whiteman, J. R.) Analysis of two-way snap of shells of revolution. **89k:73033**
Atanacković, Teodor M. (*with* Strauss, Alvin M.) Stability of Pflüger's column with imperfections. **89c:73037**
Baginski, Frank E. Axisymmetric and nonaxisymmetric buckled states of a shallow spherical cap. **89j:73054**
Bousfield, R. A. (*with* Samuels, P.) A complete physical unfolding for the dual buckling eigenvalue problem for a beam on an elastic foundation. **89f:73037**
— *see also* **Samuels, P., 89c:73040**
Dost, S. (*with* Tabarrok, B.) Application of a mixed variational principle to buckling analysis of circular cylinders. (German and Russian summaries) **89c:73038**
He, Xiang Dong *see* **Wang, Min Zhong, 89d:73029**
Hoàng Xuân Phú Zur Lösung des linearisierten Knickstab-Problems mit beschränkter Ausbiegung. (English and Russian summaries) [On the solution of the linearized buckling-rod problem with restricted bending] **89a:73037**
Holmes, Philip *see* **Mielke, A., 89c:73039**
Ivanova, Jordanka (*with* Pastrone, Franco) Buckling of cylindrical plastic shells under axial compression. (Italian summary) **89k:73034**
Komkov, V. Variational principles for nonlinear buckling of elastic columns (a revival of Euler's theory). (German and Russian summaries) **89f:73038**
Lazopoulos, C. *see* **Markatis, S., 89d:73027**
Markatis, S. (*with* Lazopoulos, C.) Intrinsic differentials in buckling theory—cuspoids. **89d:73027**
Mielke, A. (*with* Holmes, Philip) Spatially complex equilibria of buckled rods. **89c:73039**
Mullin, T. *see* **Tavener, S. J., 89d:73028**
Panayotounakos, D. E. (*with* Theocaris, P. S.) Analytic solutions for nonlinear differential equations describing the elastica of straight bars: theory. **89i:73040**
Pastrone, Franco *see* **Ivanova, Jordanka, 89k:73034**
Sadovský, Z. Approximate solution to the Föppl-Kármán-Marguerre equations. (Not in MR)
Samuels, P. (*with* Bousfield, R. A.) An investigation of dual eigenvalue systems using trigonometric polynomials and differential geometry. **89c:73040**
— *see also* **Bousfield, R. A., 89f:73037**
Simitses, George J. *see* **Stubstad, John M., 89i:73041**
Strauss, Alvin M. *see* **Atanacković, Teodor M., 89c:73037**
Stubstad, John M. (*with* Simitses, George J.) Solution methods for one-dimensional viscoelastic problems. **89i:73041**
Tabarrok, B. *see* **Dost, S., 89c:73038**
Tavener, S. J. (*with* Mullin, T.) Buckling of coupled elastic rods. **89d:73028**
Teodorescu, P. P. (*with* Toma, Ileana) Bifurcation for two fundamental cases of a nonlinear straight bar. **89m:73022**
Theocaris, P. S. *see* **Panayotounakos, D. E., 89i:73040**
Toma, Ileana *see* **Teodorescu, P. P., 89m:73022**
Wang, Min Zhong (*with* He, Xiang Dong) A weakening of the initial conditions for stability of an Euler column. (Chinese. English summary) **89d:73029**
Whiteman, J. R. *see* **Aston, P. J., 89k:73033**
Zubchaninov, V. G. Theory of the stability of plates and shells beyond the limits of elasticity under complex loading. (Russian) **89g:73024**

Items with secondary classifications in 73H05

Barnes, David C. Extremal problems for eigenvalue functionals. II. **89h:35246**
Buzano, Ernesto (*with* Russo, Alessandro) Bifurcation problems with $O(2) \oplus Z_2$ symmetry and the buckling of a cylindrical shell. **89b:58044**
Fier, J. M. *see* **Keller, H. B., 89i:58088**
Haftka, Raphael T. *see* **Shin, Yung S.; et al., 89g:73035** *and* **89g:73036**
Healey, Timothy J. Global bifurcations and continuation in the presence of symmetry with an application to solid mechanics. **89k:58058**
Keller, H. B. (*with* Fier, J. M.) Equilibrium chaos and related parameter sequences. **89i:58088**
Krousgrill, C. M. (*with* Zadoks, R. I.) Periodic and chaotic motions of a buckled beam experiencing parametric and external excitation. **89i:73050**
van Lieshout, P. H. (*with* Rongen, P. M. J.; van de Ven, A. A. F.) A variational approach to magneto-elastic buckling problems for systems of ferromagnetic or superconducting beams. **89e:73037**
Machinek, A. K. Über die double cusp Katastrophe und ihre Anwendung auf das Plattenbeulen. [On the double cusp catastrophe and its application to plate buckling] **89c:58018**
Maugin, Gérard A. ★ Continuum mechanics of electromagnetic solids. **89i:73004**
Miersemann, Erich (*with* Mittelmann, H. D.) On the continuation for variational inequalities depending on an eigenvalue parameter. **89m:58055**
Mittelmann, H. D. *see* **Miersemann, Erich, 89m:58055**
Pastrone, Franco Existence and nonuniqueness of static solutions for cylindrical elastic shells in tension. (Italian) **89e:73035**
Pipkin, A. C. *see* **Steigmann, D. J., 89i:73039**
Plaut, Raymond H. *see* **Shin, Yung S.; et al., 89g:73035** *and* **89g:73036**
Pogorelov, A. V. ★ Bendings of surfaces and stability of shells. **89j:73084**
Rongen, P. M. J. *see* **van Lieshout, P. H.; et al., 89e:73037**
Russo, Alessandro *see* **Buzano, Ernesto, 89b:58044**
(Schulenberger, J. R.) *see* **Pogorelov, A. V., 89j:73084**
Shin, Yung S. (*with* Haftka, Raphael T.; Plaut, Raymond H.) Simultaneous analysis and design for eigenvalue maximization. **89g:73035**
— (*with* Haftka, Raphael T.; Watson, Layne T.; Plaut, Raymond H.) Tracing structural optima as a function of available resources by a homotopy method. **89g:73036**
Steigmann, D. J. (*with* Pipkin, A. C.) Stability of harmonic materials in plane strain. **89i:73039**
Steindl, A. (*with* Troger, H.) Flow induced bifurcations to three-dimensional motions of tubes with an elastic support. (*see* **89g:58004**)
Troger, H. *see* **Steindl, A.**, (**89g:58004**)
van de Ven, A. A. F. *see* **van Lieshout, P. H.; et al., 89e:73037**

Wang, Qing Ren Higher order behavior of the buckling branches. **89i:35016**
Watson, Layne T. *see* **Shin, Yung S.; et al., 89g:73036**
Zadoks, R. I. *see* **Krousgrill, C. M., 89i:73050**
Zhao, Yue Yu An approximation method based on a new variational principle. (Chinese. English summary) **89k:70028**

73H10 Dynamic stability

Èshmatov, Kh. *see* **Sharova, L. V., 89e:73021**
Manole, D. Stability of elastic bodies with microstructure. **89k:73035**
Sharova, L. V. (*with* Èshmatov, Kh.) Dynamic stability of a viscoelastic rod with a viscoelastic base. (Russian) **89e:73021**
Srubshchik, L. S. (*with* Yudovich, V. I.) On the dynamic snap-through of a nonlinear elastic system. **89h:73026**
Yudovich, V. I. *see* **Srubshchik, L. S., 89h:73026**

Items with secondary classifications in 73H10

Bajaj, A. K. Bifurcations in flow-induced oscillations in tubes carrying a fluid. **89j:73058**
Bauchau, O. A. (*with* Hong, C. H.) Nonlinear response and stability analysis of beams using finite elements in time. **89i:73048**
Erneux, Thomas (*with* Reiss, Edward L.; Magnan, J. F.; Jayakumar, P. K.) Nonlinear stability control and λ-bifurcation. **89g:73027**
Gajewski, Antoni (*with* Życzkowski, Michał) ★ Optimal structural design under stability constraints. **89i:73060**
Hong, C. H. *see* **Bauchau, O. A., 89i:73048**
Jayakumar, P. K. *see* **Erneux, Thomas; et al., 89g:73027**
Krousgrill, C. M. (*with* Zadoks, R. I.) Periodic and chaotic motions of a buckled beam experiencing parametric and external excitation. **89i:73050**
Lunardi, A. Local stability results for the elastic beam equation. **89g:35102**
Magnan, J. F. *see* **Erneux, Thomas; et al., 89g:73027**
Reiss, Edward L. *see* **Erneux, Thomas; et al., 89g:73027**
Zadoks, R. I. *see* **Krousgrill, C. M., 89i:73050**
Życzkowski, Michał *see* **Gajewski, Antoni, 89i:73060**

73H99 None of the above, but in this section

Bassout-Lellich, Maarouf (*with* Weber, Jean-Daniel) Sur la stabilité d'un corps élastique homogène à frontière fixe. (English summary) [On the stability of an elastic homogeneous body with fixed boundary] **89k:73036**
Chekhov, Viktor Nikolaevich The effect of a surface load on the stability of layered bodies. (Russian) **89j:73055**
Ivanov, Tsolo Neutral equilibrium and stability in the critical case of neutral equilibrium. (Russian and Bulgarian summaries) **89e:73022**
Léger, Alain (*with* Potier-Ferry, Michel) Bifurcations plastiques à partir d'un état inhomogène. (English summary) [Elastoplastic bifurcations from an inhomogeneous state] **89j:73056**
Potier-Ferry, Michel *see* **Léger, Alain, 89j:73056**
Weber, Jean-Daniel *see* **Bassout-Lellich, Maarouf, 89k:73036**

Items with secondary classifications in 73H99

Arutyunyan, N. Kh. (*with* Drozdov, A. D.; Kolmanovskiĭ, V. B.) Stability of viscoelastic bodies and of elements of constructions. (Russian. English summary) **89a:73034**
Chen, Yi-Chao Stability of pure homogeneous deformations of an elastic plate with fixed edges. **89i:73038**
Drozdov, A. D. (*with* Zhukhovitskiĭ, D. M.) Stability of circular plates from ageing viscoelastic material. **89c:73048**
— *see also* **Arutyunyan, N. Kh.; et al., 89a:73034**
Guerriero, Gabriele On the stability problem for the exterior linear viscoelasticity. **89j:73047**
Healey, Timothy J. A group-theoretic approach to computational bifurcation problems with symmetry. **89k:58057**
Kalamkarov, A. L. *see* **Parton, V. Z.,** (Not in MR)
Kolmanovskiĭ, V. B. *see* **Arutyunyan, N. Kh.; et al., 89a:73034**
Leipholz, H. H. E. On the occurrence of nonselfadjointness in the control of elastic structures. **89f:73062**
Mkrtchyan, P. A. Stability of a magnetically soft spherical shell in a homogeneous magnetic field. (Russian. Armenian summary) **89c:73078**
Parton, V. Z. (*with* Kalamkarov, A. L.) Equations on the stability of three-dimensional bodies made of composites of regular structure. (Not in MR)
Zhukhovitskiĭ, D. M. *see* **Drozdov, A. D., 89c:73048**

73Jxx Aero- and hydroelasticity

73J05 Interaction of aerodynamics and elasticity

Dowell, Earl H. (*with* Il'gamov, M. A.) ★ Studies in nonlinear aeroelasticity. **89k:73037**
Funtikov, A. V. *see* **Odareev, V. A., 89c:73041**
van Horssen, W. T. An asymptotic theory for a system of weakly nonlinear wave equations. (*see* **89g:58004**)
Il'gamov, M. A. *see* **Dowell, Earl H., 89k:73037**
Lokshin, B. Ya. (*with* Privalov, V. A.; Samsonov, V. A.) Qualitative analysis of the motion of a rigid body in a resistant medium. (Russian) **89j:73057**
Odareev, V. A. (*with* Funtikov, A. V.) Problems of the nonlinear dynamics of a transportation apparatus in a bounded flow. (Russian) **89c:73041**
Privalov, V. A. *see* **Lokshin, B. Ya.; et al., 89j:73057**
Samsonov, V. A. *see* **Lokshin, B. Ya.; et al., 89j:73057**

Items with secondary classifications in 73J05

Abrahams, I. D. Scattering of sound by a semi-infinite elastic plate with a soft backing; a matrix Wiener-Hopf problem. **89m:76056**
Burns, John A. (*with* Cliff, Eugene M.; Herdman, Terry L.; Turi, Janos) On integral transforms appearing in the derivation of the equations of an aeroelastic system. **89g:76013**
Cliff, Eugene M. *see* **Burns, John A.; et al., 89g:76013**
Dechaumphai, Pramote *see* **Thornton, Earl A., 89h:80001**
Herdman, Terry L. *see* **Burns, John A.; et al., 89g:76013**
Howe, M. S. Production of sound by turbulent flow over an embedded strut. **89k:76083**
Larcombe, P. J. (*with* Poots, G.; Skelton, P. L. I.; Shillor, M.) Mathematical models for ice accretion on conductors using free streamline theory. I. Single conductor. **89m:76020**
Poots, G. *see* **Skelton, P. L. I., 89k:76042** *and* **Larcombe, P. J.; et al., 89m:76020**
Shillor, M. *see* **Larcombe, P. J.; et al., 89m:76020**
Skelton, P. L. I. (*with* Poots, G.) Approximate predictions of ice accretion on an overhead transmission line which rotates with constant angular velocity. **89k:76042**
— *see also* **Larcombe, P. J.; et al., 89m:76020**
Thornton, Earl A. (*with* Dechaumphai, Pramote) Finite element methodology for integrated flow-thermal-structural analysis. **89h:80001**
Turi, Janos *see* **Burns, John A.; et al., 89g:76013**
Wang, P. K. C. Feedback control of vibrations in an extendible cantilever sweptback wing. (*see* **89c:00031**)

73J06 Interaction of hydrodynamics and elasticity

Bagdoev, A. G. (*with* Movsisyan, L. A.) Nonlinear waves in a cylindrical shell that contains a fluid with admixtures. (Russian. Armenian summary) **89c:73042**
Bajaj, A. K. Bifurcations in flow-induced oscillations in tubes carrying a fluid. **89j:73058**
Capodanno, Pierre Sur les petites oscillations d'un pendule élastique contenant un liquide. (English and Russian summaries) [Small oscillations of an elastic pendulum containing a liquid] **89c:73043**
Deneuvy, A. C. Theoretical study and optimization of a fluid-structure interaction problem. (French summary) **89d:73030**
Epifanov, O. V. (*with* Popov, O. N.; Tsionskiĭ, A. Ya.) Justification of the method of eigenforms for solving problems of the hydroelasticity of shells of finite dimensions. **89f:73039**
Ershov, B. A. The effect of the vortex wake on the perturbed motion of an elastic profile. (Russian. English summary) **89j:73059**
Fadeev, V. M. *see* **Slepyan, L. I., 89c:73044**
Galiev, Sh. U. ★ Нелинейные волны в ограниченных сплошных средах. (Russian) [Nonlinear waves in bounded continua] **89i:73042**
Gavrilenko, V. V. *see* **Kubenko, V. D., 89f:73040**
Huang, Yu Ying A variational solution of coupled vibration for moderately thick floating plate seated on the sea floor with variable water depth. (Not in MR)
Krasnopol'skaya, T. S. Vibrations of an infinite plate, in contact with a fluid, that is line-driven by a motor of limited power. (Russian) **89g:73025**
— (*with* Lavrov, K. A.) Nonlinear oscillations of a cylindrical shell with a fluid under limited excitation. **89k:73038**
Kubenko, V. D. (*with* Gavrilenko, V. V.) An axisymmetric problem of the penetration of thin elastic spherical shells into a compressible fluid. **89f:73040**
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Levitin, M. R. On the spectrum of natural oscillations of a shell filled with a viscous compressible fluid. (Russian) **89i:73043**
Liaw, C. Y. Chaotic and periodic responses of a coupled wave-force and structure system. **89k:73039**
Lukovskiĭ, I. A. (*with* Zolotenko, G. F.) Equations of motion in a fluid of a rigid body that is connected to a moving base by a thread of variable length. (Russian) **89e:73023**
Movsisyan, L. A. *see* **Bagdoev, A. G., 89c:73042**
Popov, O. N. *see* **Epifanov, O. V.; et al., 89f:73039**
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Steindl, A. (*with* Troger, H.) Flow induced bifurcations to three-dimensional motions of tubes with an elastic support. (*see* **89g:58004**)
Swaters, Gordon E. Resonant three-wave interactions in nonlinear hyper-elastic fluid-filled tubes. **89g:73026**
Troger, H. *see* **Steindl, A., (89g:58004)**
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Zolotenko, G. F. *see* **Lukovskiĭ, I. A., 89e:73023**

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Bajaj, A. K. Nonlinear dynamics of tubes carrying a pulsatile flow. **89h:92006**
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Douglas, Jim, Jr. (*with* Santos, Juan Enrique) Approximation of waves in composite media. (*see* **89c:65004**)
Dowell, Earl H. (*with* Il'gamov, M. A.) ★ Studies in nonlinear aeroelasticity. **89k:73037**
Forbes, Lawrence K. Surface waves of large amplitude beneath an elastic sheet. I. High-order series solution. **89e:76019**
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Gan, R. Z. (*with* Moodie, T. B.) Broad-spectrum impedance calculations for arterial models. (Not in MR)

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Ockendon, J. R. *see* **Tew, R. H.; et al., 89i:76085**

Quiblier, J. *see* **Bamberger, A.; et al., (89g:73001)**

Roy, S. *see* **Misra, J. C., 89h:92030**

Sahu, B. K. *see* **Misra, J. C., 89j:92034**

Santos, Juan Enrique *see* **Douglas, Jim, Jr., (89c:65004)**

Tew, R. H. (*with* Ockendon, J. R.; Briggs, G. A. D.) Acoustical scattering by a shallow surface-breaking crack in an elastic solid under light fluid loading. **89i:76085**

73J10 Vibrations, flutter

Erneux, Thomas (*with* Reiss, Edward L.; Magnan, J. F.; Jayakumar, P. K.) Nonlinear stability control and λ-bifurcation. **89g:73027**

Jayakumar, P. K. *see* **Erneux, Thomas; et al., 89g:73027**

Magnan, J. F. *see* **Erneux, Thomas; et al., 89g:73027**

Reiss, Edward L. *see* **Erneux, Thomas; et al., 89g:73027**

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Bajaj, A. K. Bifurcations in flow-induced oscillations in tubes carrying a fluid. **89j:73058**

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73J99 None of the above, but in this section

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Glasko, V. B. (*with* Nyunin, B. N.; Tikhonov, A. N.; Trubetskov, M. K.) The problem of reducing acoustic noise in the interior of a car. (Russian) **89j:76074**

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Trubetskov, M. K. *see* **Glasko, V. B.; et al., 89j:76074**

Items with secondary classifications in 73J99

Eastep, F. E. *see* **Khot, N. S.; et al.**, (Not in MR)

Grandhi, R. V. *see* **Khot, N. S.; et al.**, (Not in MR)

Khot, N. S. (*with* Öz, H.; Grandhi, R. V.; Eastep, F. E.; Venkayya, V. B.) Optimal structural design with control gain norm constraint. (Not in MR)

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73Kxx Structural mechanics

Items with secondary classifications in 73Kxx

Telega, Józef Joachim Variational methods in contact problems of mechanics. (Russian. English summary) **89i:73071**

73K03 Strings

Amerio, Luigi On the connection between elastic rebound and support phenomena for a vibrating string. (Italian. English summary) **89c:73045**

Beatty, Millard F. (*with* Chow, Alan C.) Finite amplitude vibrations of a Mooney-Rivlin oscillator. **89f:73041**

Boyadzhiev, Todor *see* **Deneva, Sonya, 89e:73024**

Chow, Alan C. *see* **Beatty, Millard F., 89f:73041**

Deneva, Sonya (*with* Boyadzhiev, Todor) The equations of motion of a flexible thread in special cases. (Russian. English summary) **89e:73024**

Maezawa, Seiichiro Series transformation method for analyzing steady vibration of a continuous body with piecewise-linear characteristic. (Russian summary) **89m:73023**

— Vibration of a bowed string (a supplement). **89k:73040**

Penkin, O. M. (*with* Pokornyĭ, Yu. V.; Provotorova, E. N.) A vector boundary value problem. (Russian) (*see* **89c:00008**)

Petrov, A. L. A finite-difference method for calculating the motion of a flexible thread in a gravitational field. (Russian) **89k:73041**

Pokornyĭ, Yu. V. *see* **Penkin, O. M.; et al., (89c:00008)**

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Pustovoĭt, S. P. Nonsymmetric continuations and the solution of the third boundary value problem for an equation of the vibrations of a bounded string of variable length. (Russian) (*see* **89c:00008**)

Rampazzo, Franco Unified versions, based on distributions, of the linearized equations for an elastic string carrying a concentrated mass. (Italian summary) **89e:73025**

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Büttiker, Markus (*with* Thomas, Harry) Propagation and stability of kinks in driven and damped nonlinear Klein-Gordon chains. **89b:73016**

Feireisl, Eduard Small time-periodic solutions to a nonlinear equation of a vibrating string. (Russian and Czech summaries) **89c:35009**

Tanaka, Kazunaga Forced vibrations for a superlinear vibrating string equation. **89d:35117**

Thomas, Harry *see* **Büttiker, Markus, 89b:73016**

73K05 Beams, columns, rods

Arutyunyan, N. Kh. (*with* Radaev, Yu. N.) Elastoplastic torsion of prismatic rods. (Russian) **89a:73038**

Bazdyreva, M. B. Solvability of the problem of the bending of a multilayered beam. (Russian) **89g:73028**

Bosák, Miroslav A unilateral boundary-value problem for the rod. (Russian and Czech summaries) **89i:73044**

Cardona, A. (*with* Geradin, M.) A beam finite element nonlinear theory with finite rotations. **89k:73042**

Cimetière, A. (*with* Geymonat, G.; Le Dret, Hervé; Raoult, A.; Tutek, Z.) Asymptotic theory and analysis for displacements and stress distribution in nonlinear elastic straight slender rods. **89f:73042**

Donato, A. (*with* Oliveri, F.) On nonlinear plane vibration of a moving threadline. (Italian summary) **89h:73027**

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Hsu, Sze Bi (*with* Hwang, Shin Feng) Analysis of large deformation of a heavy cantilever. **89k:73043**

Hwang, Shin Feng *see* **Hsu, Sze Bi, 89k:73043**

Kezerashvili, M. I. On the solution of a problem on the bending by a transverse force of a composite anisotropic rod with a slightly curved axis. (Russian. English and Georgian summaries) (Not in MR)

Kumsishvili, D. Ya. Deformation of a prismatic beam with a concave face. (Russian) (Not in MR)

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Nowinski, J. L. On the Saint-Venant torsion of elastic diatomic bars. **89f:73043**

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Agarwal, Ravi Prakash On fourth order boundary value problems arising in beam analysis. **89k:34038**

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Baillieul, J. (*with* Levi, Mark) Rotational elastic dynamics. **89a:70009**

Beletskaya, N. V. *see* **Samsonov, V. A., 89f:70009**

Bendsøe, Martin P. (*with* Olhoff, Niels; Taylor, John E.) On the design of structure and controls for optimal performance of actively controlled flexible structures. **89f:73055**

Bermúdez de Castro, Alfredo (*with* Saguez, C.) Optimality conditions for optimal control problems of variational inequalities. **89a:49009**

Bomash, A. Ya. (*with* Nagaev, R. F.) The structure of the characteristic equation of a linear mechanical system of chain type. (Russian. English summary) **89j:70027**

Bontsema, J. (*with* Curtain, R. F.; Schumacher, J. M.) Robust control of flexible structures: a case study. **89k:93161**

Bousfield, R. A. (*with* Samuels, P.) A complete physical unfolding for the dual buckling eigenvalue problem for a beam on an elastic foundation. **89f:73037**

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Curtain, R. F. (*with* Kotelenez, Peter) Stochastic bilinear spectral systems. **89b:60145**

— *see also* **Bontsema, J.; et al., 89k:93161**

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Feireisl, Eduard Time-periodic solutions of a quasilinear beam equation via accelerated convergence methods. (Russian and Czech summaries) **89j:35019**

Fu, Y. B. (*with* Scott, N. H.) Acceleration wave propagation in an inhomogeneous heat-conducting elastic rod of slowly varying cross section. **89c:73092**

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— Solvability of a fourth order boundary value problem with periodic boundary conditions. **89e:34035**

— Existence and uniqueness results for the bending of an elastic beam equation at resonance. **89i:34019**

Healey, Timothy J. Global bifurcations and continuation in the presence of symmetry with an application to solid mechanics. **89k:58058**

Hess, Walter Paul *see* **Schmidt, Jochen W., 89b:65034**

Higham, Nicholas J. The symmetric Procrustes problem. **89g:65047**

Holmes, Philip *see* **Mielke, A., 89c:73039**

Hu, Yu Ren The application of graph theory to the limit analysis for torsion of thin-walled bars. **89j:73042**

Ibragimov, V. A. (*with* Nifagin, V. A.) Convergence of the expansion method with respect to the loading parameter in problems of elastoplastic deformation of rods. (Russian) (Not in MR)

Kallay, Michael Plane curves of minimal energy. **89c:53002**

Khashimov, Zh. *see* **Badalov, F. B., 89k:73044**

Kobayashi, Toshihiro (*with* Luo, Zheng Hua) Dynamic shape control for a flexible beam. **89e:93094**

Komkov, V. Variational principles for nonlinear buckling of elastic columns (a revival of Euler's theory). (German and Russian summaries) **89f:73038**

Kotelenez, Peter *see* **Curtain, R. F., 89b:60145**

Koval, Leslie R. *see* **Ramakrishnan, Jayant V.; et al., 89m:93016**

Kranakis, Eda F. Navier's theory of suspension bridges. **89i:01039**

Krantz, Steven G. *see* **Chen, Goong; et al., 89d:35148**

Leipholz, H. H. E. On the modal approach to the stability of certain nonselfadjoint problems in elastodynamics. **89d:73017**

Levi, Mark *see* **Baillieul, J., 89a:70009**

Lunardi, A. Local stability results for the elastic beam equation. **89g:35102**

Luo, Zheng Hua *see* **Kobayashi, Toshihiro, 89e:93094**

Ma, D. W. *see* **Chen, Goong; et al., 89d:35148**

Maezawa, Seiichiro (*with* Temma, Katsuhiro; Ochiai, Hidenori) Vibration of a bowed string (application of Timoshenko's beam theory and transmission of sound energy through the bridge). **89j:73069**

Matsumoto, Hiroyuki[1] *see* **Murotsu, Yoshisada; et al., 89j:73083**

Mielke, A. (*with* Holmes, Philip) Spatially complex equilibria of buckled rods. **89c:73039**

— On Saint-Venant's problem for an elastic strip. **89j:73022**

Mullin, T. *see* **Tavener, S. J., 89d:73028**

Murotsu, Yoshisada (*with* Okubo, Hiroshi; Matsumoto, Hiroyuki[1]; Okawa, Yoshiyuki; Terui, Fuyuto) Tendon control system for flexible space structures. **89j:73083**

Nagaev, R. F. *see* **Bomash, A. Ya., 89j:70027**

(Navier, C. L. M. H.) *see* **Kranakis, Eda F., 89i:01039**

Nifagin, V. A. *see* **Ibragimov, V. A.**, (Not in MR)

Ochiai, Hidenori *see* **Maezawa, Seiichiro; et al., 89j:73069**

Okawa, Yoshiyuki *see* **Murotsu, Yoshisada; et al., 89j:73083**

Okubo, Hiroshi *see* **Murotsu, Yoshisada; et al., 89j:73083**

Olhoff, Niels *see* **Bendsøe, Martin P.; et al., 89f:73055**

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Owen, Nicholas C. On a variational problem from one-dimensional nonlinear elasticity. **89f:49003**

— Nonconvex variational problems with general singular perturbations. **89m:49025**

Panayotounakos, D. E. (*with* Theocaris, P. S.) Analytic solutions for nonlinear differential equations describing the elastica of straight bars: theory. **89i:73040**

Ramakrishnan, Jayant V. (*with* Rao, S. Vittal; Koval, Leslie R.) Reduced-order modeling of flexible structures. **89m:93016**

Rao, S. Vittal *see* **Ramakrishnan, Jayant V.; et al., 89m:93016**

Rybicki, J. *see* **Górecki, Z., 89j:73075**

Sadek, Ibrahim S. Variational method for the distributed control of a vibrating beam. **89c:49016**

Saguez, C. *see* **Bermúdez de Castro, Alfredo, 89a:49009**

Samsonov, A. M. (*with* Sokurinskaya, E. V.) Solitary longitudinal waves in an inhomogeneous nonlinearly elastic rod. **89f:73025**

Samsonov, V. A. (*with* Beletskaya, N. V.) On the problem of the stability of the relative equilibrium of a rigid body with elastic rods. (Russian) **89f:70009**

Samuels, P. *see* **Bousfield, R. A., 89f:73037**

Schmidt, Jochen W. (*with* Hess, Walter Paul) Positive interpolation with rational quadratic splines. (German summary) **89b:65034**

Schumacher, J. M. *see* **Bontsema, J.; et al., 89k:93161**

Scott, N. H. *see* **Fu, Y. B., 89c:73092**

Sharova, L. V. (*with* Èshmatov, Kh.) Dynamic stability of a viscoelastic rod with a viscoelastic base. (Russian) **89e:73021**

Simitses, George J. *see* **Stubstad, John M., 89i:73041**

Sokurinskaya, E. V. *see* **Samsonov, A. M., 89f:73025**

Storch, Joel (*with* Strang, Gilbert) Paradox lost: natural boundary conditions in the Ritz-Galerkin method. **89g:73007**

Strang, Gilbert *see* **Storch, Joel, 89g:73007**

Stubstad, John M. (*with* Simitses, George J.) Solution methods for one-dimensional viscoelastic problems. **89i:73041**

Tavener, S. J. (*with* Mullin, T.) Buckling of coupled elastic rods. **89d:73028**

Taylor, John E. *see* **Bendsøe, Martin P.; et al., 89f:73055**

Temma, Katsuhiro *see* **Maezawa, Seiichiro; et al., 89j:73069**

Teodorescu, P. P. (*with* Toma, Ileana) Bifurcation for two fundamental cases of a nonlinear straight bar. **89m:73022**

Terui, Fuyuto *see* **Murotsu, Yoshisada; et al., 89j:73083**

Theocaris, P. S. *see* **Panayotounakos, D. E., 89i:73040**

Toma, Ileana *see* **Teodorescu, P. P., 89m:73022**

Torrejón, Ricardo M. (*with* Yong, Jiong Min) A control problem for clamped extensible beams. **89k:93116**

Veselić, Krešimir On linear vibrational systems with one-dimensional damping. **89k:70039**

Wayne, C. Eugene *see* **Chen, Goong; et al., 89d:35148**

West, Harry H. *see* **Chen, Goong; et al., 89d:35148**

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Xing, Jing Tang A note about Oden's constitutive variational principle. **89a:73004**

Yong, Jiong Min *see* **Torrejón, Ricardo M., 89k:93116**

Yoshida, Norio On the zeros of solutions of beam equations. **89k:35024**

73K10 Plates, discs

Ahmed, Sk. Shamim (*with* Dey, Santi Sekhar) The circle-polygon paradox in the light of the boundary-element method. **89e:73026**

Al-Khaiat, Husain Initial-value analysis of continuous orthotropic plates. **89c:73046**

Ambartsumyan, S. A. ★ Теория анизотропных пластин. (Russian) [The theory of anisotropic plates] **89h:73028**

Andersson, Bőrje *see* **Storåkers, Bertil, 89m:73025**

Andrianov, I. V. (*with* Kholod, E. G.) Some exact solutions in the theory of flexible plates. **89g:73029**

Arimitsu, Y. *see* **Nishioka, K., 89c:73049**

Badalov, F. B. (*with* Khashimov, Zh.) ★ Решение неоднородных и нелинейных краевых задач теории пластин и оболочек методом сведения к задачам Коши. (Russian) [Solution of nonhomogeneous and nonlinear boundary value problems in the theory of plates and shells by the method of reduction to Cauchy problems] **89k:73044**

Bantsuri, R. D. (*with* Isakhanov, R. S.) Some inverse problems in elasticity theory. (Russian) **89b:73022**

Bendsøe, Martin P. (*with* Sokołowski, Jan) Sensitivity analysis and optimal design of elastic plates with unilateral point supports. **89f:73044**

Bogan, Yu. A. Bending of a strongly anisotropic plate over an obstacle. (Russian) **89c:73047**

Ciarlet, Philippe G. (*with* Le Dret, Hervé) Justification de la condition aux limites d'encastrement d'une plaque par une méthode asymptotique. (English summary) [Justification of the boundary conditions for a clamped plate by an asymptotic analysis] **89k:73045**

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Davydov, M. G. Stability of a rectilinear form and the supercritical deformation of rectangular plates under nonproportional loading. (Russian) (*see* **89b:00008**)

Destuynder, Philippe (*with* Nevers, Thierry) Une modification du modèle de Mindlin pour les plaques minces en flexion présentant un bord libre. (English summary) [A modification of the Mindlin model for bending thin plates with a free boundary] **89f:73045**

Dey, Santi Sekhar *see* **Ahmed, Sk. Shamim, 89e:73026**

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Galba, E. F. *see* **Molchanov, I. N., 89j:73064**

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Huang, Su Jian A derivation of the large deflection equations for plates from a generalized variational principle based on finite deformations. (Chinese. English summary) **89f:73047**

Isakhanov, R. S. *see* **Bantsuri, R. D., 89b:73022**

Kang, Lian Cheng (*with* Qin, Sheng Li; Zhang, Ai Shu) The axisymmetric nonlinear bending problem for thin circular plates. (Chinese) **89j:73062**

Khashimov, Zh. *see* **Badalov, F. B., 89k:73044**

Khidirov, Yu. È. The one-sided elastoplastic bending of a rigidly fixed plate. (Russian) **89a:73040**

Kholod, E. G. *see* **Andrianov, I. V., 89g:73029**

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Kozin, A. B. *see* **Kozīna, G. O., (89c:00008)**

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Ladevèze, Pierre Une nouvelle version de la théorie de Reissner-Mindlin pour les plaques homogènes orthotropes. (English summary) [A new version of the Reissner-Mindlin theory for orthotropic homogeneous plates] **89m:73024**

Lapushkīn, Ī. T. Finite integral transformations in problems for biharmonic equations. (Ukrainian. Russian summary) **89g:73030**

Le Dret, Hervé *see* **Ciarlet, Philippe G., 89k:73045**

Lewiński, Tomasz (*with* Telega, Józef Joachim) Asymptotic method of homogenization of fissured elastic plates. **89a:73041**

Molchanov, I. N. (*with* Galba, E. F.) Variational formulations and discretization of the problem of the bending of a thin plate with a free boundary. (Russian. English summary) **89j:73064**

Monavon, Arnault *see* **Coutris, Nicole, 89i:73045**

Nevers, Thierry *see* **Destuynder, Philippe, 89f:73045**

Nishioka, K. (*with* Arimitsu, Y.) Exact plane stress solution for some simple cases in anisotropic elasticity. (German and Russian summaries) **89c:73049**

Novichenko, V. N. *see* **Voĭtsekhovskiĭ, S. A., 89a:73043**

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Prusov, I. A. *see* **Korolevich, V. V., 89j:73063**

Qin, Sheng Li *see* **Kang, Lian Cheng; et al., 89j:73062**

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Vashakmadze, T. S. On the theory of Vekua elastic plates. (Russian. English and Georgian summaries) **89a:73042**

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— *see also* **Ye, Kai Yuan, 89d:73031** *and* **89m:73026**

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Zhou, You He *see* **Zheng, Xiao Jing, 89f:73048**

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Items with secondary classifications in 73K10

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Belytschko, Ted (*with* Lasry, David) A fractal patch test. **89f:73050**

Bhattacharyya, Pijush Kanti *see* **Balasundaram, S., 89i:65112**

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Franca, Leopoldo P. *see* **Hughes, Thomas J. R., 89g:73033**

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Horgan, C. O. *see* **Vafeades, P., 89i:73020**

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Lasry, David *see* **Belytschko, Ted, 89f:73050**

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Lokshin, B. Ya. (*with* Privalov, V. A.; Samsonov, V. A.) Qualitative analysis of the motion of a rigid body in a resistant medium. (Russian) **89j:73057**

Lusikka, I. *see* **Costabel, M.; et al., 89j:73004**

Maksimenko, V. N. The effect of reinforcing elements on the development of cracks near a hole in a plate. **89k:73060**

Morris, G. R. *see* **Ortiz, Michael, 89c:73062**

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— *see also* **Stavroulakis, G. E., 89m:73027a**

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Postnikov, A. A. Application of the method of discrete operators to the calculation of anisotropic plates and shells of composite materials. (Russian) **89e:73029**

Pramila, A. *see* **Virtanen, S., 89c:73064**

Privalov, V. A. *see* **Lokshin, B. Ya.; et al., 89j:73057**

Rózsa, P. *see* **Kónya, I.; et al., 89c:65121**

Sadek, Ibrahim S. *see* **Adali, S.; et al., 89d:49001**

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Samsonov, V. A. *see* **Lokshin, B. Ya.; et al., 89j:73057**

Saranen, J. *see* **Costabel, M.; et al., 89j:73004**

Sarigül, N. *see* **Hassan, K., 89d:73037**

Scapolla, Terenzio *see* **Babuška, I., 89j:73071**

Shalashilin, V. I. *see* **Grigolyuk, È. I., 89m:73001**

Sloss, J. M. *see* **Adali, S.; et al., 89d:49001**

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Szabados, T. *see* **Kónya, I.; et al., 89c:65121**

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Telega, Józef Joachim *see* **Bielski, W., 89i:73053**

Théra, M. *see* **Isac, G., 89m:49015**

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Troger, H. *see* **Xu, Gaofeng, 89c:58019**

Vafeades, P. (*with* Horgan, C. O.) Exponential decay estimates for solutions of the von Kármán equations on a semi-infinite strip. **89i:73020**

Venkatesh, A. *see* **Jirousek, J., 89j:73005**

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Weinacht, R. J. Degenerate elliptic equations and spongy elastic plates. **89a:35097**

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— Estimation of flexural rigidity in a Kirchhoff plate model. **89j:73079**

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Zhan, Chong Xi Nonconforming finite elements with compensation for plate bending problems. **89b:65283**

Zhang, Xiang Zhou *see* **Chen, Bao Xing, 89i:73072**

Zubchaninov, V. G. Theory of the stability of plates and shells beyond the limits of elasticity under complex loading. (Russian) **89g:73024**

73K12 Vibrations of beams, plates, etc.

Adzhubeĭ, L. T. (*with* Kudin, G. I.) Solution of a problem of estimating the state of a rod by the averaging method. (Russian) **89k:73046**

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Bauchau, O. A. (*with* Hong, C. H.) Nonlinear response and stability analysis of beams using finite elements in time. **89i:73048**

Cheban, V. G. *see* **Filippov, I. G., 89i:73049**

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Crandall, Stephen H. Nonlinearities in rotor dynamics. **89a:73044**

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Gabrielyan, M. S. *see* **Sarkisyan, V. S.; et al., 89d:73033**

Gates, S. S. *see* **Banks, H. T.; et al., 89f:73049**

Gottlieb, H. P. W. Density distribution for isospectral circular membranes. **89j:73068**

Hagedorn, Peter (*with* Kelkel, K.; Wallaschek, J.) ★ Vibrations and impedances of rectangular plates with free boundaries. **89k:73047**

Hong, C. H. *see* **Bauchau, O. A., 89i:73048**

Kelkel, K. *see* **Hagedorn, Peter; et al., 89k:73047**

Kolpakov, A. G. Averaging in problems of the bending and oscillation of stressed inhomogeneous plates. **89k:73048**

Kosmodamianskiĭ, A. S. *see* **Zhitnyaya, V. G., 89g:73032**

Krantz, Steven G. *see* **Chen, Goong; et al.,** (**89d:00007**)

Krousgrill, C. M. (*with* Zadoks, R. I.) Periodic and chaotic motions of a buckled beam experiencing parametric and external excitation. **89i:73050**
Kudin, G. I. *see* **Adzhubeĭ, L. T., 89k:73046**
Maezawa, Seiichiro (*with* Temma, Katsuhiro; Ochiai, Hidenori) Vibration of a bowed string (application of Timoshenko's beam theory and transmission of sound energy through the bridge). **89j:73069**
Markosyan, G. S. Propagation of flexural waves through an inhomogeneous plate with slowly changing parameters. (Russian) **89e:73027**
Mirzaeva, M. M. *see* **Rakhmatulin, Kh. A., 89c:73053**
Ochiai, Hidenori *see* **Maezawa, Seiichiro; et al., 89j:73069**
Rakhmatulin, Kh. A. (*with* Mirzaeva, M. M.) Solution of boundary value problems on forced vibrations of plates by means of integral equations. (Russian) **89c:73053**
Rosen, I. G. *see* **Banks, H. T.; et al., 89f:73049**
Russell, David L. *see* **Chen, Goong; et al.,** (**89d:00007**)
Sarkisyan, V. S. (*with* Gabrielyan, M. S.; Yusif, Yu. Dzh.) Optimal stabilization of an orthotropic rectangular plate. (Russian. English and Armenian summaries) **89d:73033**
Scott, R. A. *see* **Yigit, A.; et al., 89a:73046**
Sedin, W. *see* **Andrianov, I. V.,** (Not in MR)
Simo, J. C. (*with* Vu-Quoc, L.) On the dynamics in space of rods undergoing large motions—a geometrically exact approach. **89a:73045**
Stolyar, A. M. Asymptotic integration of an equation of the oscillations of a long rectangular plate. (Russian) **89c:73054**
Temma, Katsuhiro *see* **Maezawa, Seiichiro; et al., 89j:73069**
Udwadia, F. E. Uniqueness in the identification of a bending beam modeled by finite elements. **89i:73051**
Ueda, Sei The inverse problem for the string or rod clamped at both sides. **89i:73052**
Ulsoy, A. Galip *see* **Yigit, A.; et al., 89a:73046**
Vu-Quoc, L. *see* **Simo, J. C., 89a:73045**
Wallaschek, J. *see* **Hagedorn, Peter; et al., 89k:73047**
Wang, Y. *see* **Banks, H. T.; et al., 89f:73049**
Wayne, C. Eugene *see* **Chen, Goong; et al.,** (**89d:00007**)
West, Harry H. *see* **Chen, Goong; et al.,** (**89d:00007**)
Yigit, A. (*with* Scott, R. A.; Ulsoy, A. Galip) Flexural motion of a radially rotating beam attached to a rigid body. **89a:73046**
Yusif, Yu. Dzh. *see* **Sarkisyan, V. S.; et al., 89d:73033**
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Zhou, Jian-Xin *see* **Chen, Goong; et al.,** (**89d:00007**)

Items with secondary classifications in 73K12

Abrahams, I. D. Acoustic scattering by a finite nonlinear elastic plate. I. Primary, secondary and combination resonances. **89a:76045**
Adali, S. *see* **Sloss, J. M.; et al., 89m:93041**
Ambartsumyan, S. A. ★ Теория анизотропных пластин. (Russian) [The theory of anisotropic plates] **89h:73028**
Babich, S. Yu. (*with* Glukhov, Yu. P.; Guz′, A. N.) On the solution of a problem on the action of a moving load on a two-layer semispace with initial stresses. **89i:73027**
Blankenship, Gilmer L. Applications of homogenization theory to the control of flexible structures. **89k:73049**
Bondarev, P. A. *see* **Mitropol′skiĭ, Yu. A.; et al., 89g:34062**
Bourquin, Frédéric (*with* Ciarlet, Philippe G.) Modélisation des vibrations d'une multistructure formée d'un corps élastique tridimensionnel et d'une plaque. (English summary) [Modeling of the vibrations of a multistructure composed of a three-dimensional elastic body and a plate] **89i:73055**
Bruch, J. C., Jr. *see* **Sloss, J. M.; et al., 89m:93041**
Čanak, Miloš Der Zusammenhang zwischen der Randwertaufgabe von Riemann und einem Problem der mathematischen Musiktheorie. (Serbo-Croatian summary) [The connection between the Riemann boundary value problem and a problem of mathematical music theory] **89h:35172**
Cartmell, M. P. (*with* Roberts, John Wilson) Simultaneous combination resonances in an autoparametrically resonant system. **89c:70052**
Ciarlet, Philippe G. *see* **Bourquin, Frédéric, 89i:73055**
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Feireisl, Eduard Free vibrations for the equation of a rectangular thin plate. (Russian and Czech summaries) **89h:35209**
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Fu, Y. B. (*with* Scott, N. H.) Acceleration wave propagation in an inhomogeneous heat-conducting elastic rod of slowly varying cross section. **89c:73092**
Glukhov, Yu. P. *see* **Babich, S. Yu.; et al., 89i:73027**
Gol′denveĭzer, A. L. *see* **Vasil′ev, D. G.,** (**89j:73002**)
Gorman, D. G. (*with* Kennedy, William) ★ Applied solid dynamics. **89h:73001**
Gottlieb, H. P. W. Iso-spectral operators: some model examples with discontinuous coefficients. **89i:34022**
Guz′, A. N. *see* **Babich, S. Yu.; et al., 89i:73027**
Haftka, Raphael T. *see* **Shin, Yung S.; et al., 89g:73035**
Howe, M. S. Attenuation and diffraction of bending waves at gaps in fluid loaded plates. (Not in MR)
Kennedy, William *see* **Gorman, D. G., 89h:73001**
Kolomiets, V. G. *see* **Mitropol′skiĭ, Yu. A.; et al., 89g:34062**
Krasnopol′skaya, T. S. Vibrations of an infinite plate, in contact with a fluid, that is line-driven by a motor of limited power. (Russian) **89g:73025**
Ladevèze, Pierre (*with* Pelle, J.-P.) Optimisation des maillages pour les calculs de fréquences propres. (English summary) [Optimal meshes for the calculation of the natural frequencies] **89f:73051**
Lagnese, J. (*with* Lions, J.-L.) ★ Modelling analysis and control of thin plates. **89k:73001**
Leipholz, H. H. E. On the application of the modal approach to plates with a nonselfadjoint control. **89d:73018**
Lions, J.-L. *see* **Lagnese, J., 89k:73001**
Maezawa, Seiichiro Series transformation method for analyzing steady vibration of a continuous body with piecewise-linear characteristic. (Russian summary) **89m:73023**
Markosyan, G. S. Asymptotic solution of a scattering problem for a system of differential equations. (Russian. Armenian summary) **89d:73015**
Michel, A. N. *see* **Skaar, Steven B.; et al., 89a:93043**
Miller, Richard K. *see* **Skaar, Steven B.; et al., 89a:93043**
Mitropol′skiĭ, Yu. A. (*with* Kolomiets, V. G.; Bondarev, P. A.) Application of asymptotic methods of nonlinear mechanics for the investigation of the oscillations of systems with distributed parameters. (Russian) **89g:34062**
Mohamed, Fouad A. Identification of certain physical parameters in hyperbolic boundary value problems from overspecified boundary data. **89h:35340**
Nayfeh, Ali Hasan Numerical-perturbation methods in mechanics. **89i:70037**
Pelle, J.-P. *see* **Ladevèze, Pierre, 89f:73051**
Plaut, Raymond H. *see* **Shin, Yung S.; et al., 89g:73035**
Řeháček, Jan On periodic solutions of a special type of the beam equation. (Russian and Czech summaries) **89c:35010**
Roberts, John Wilson *see* **Cartmell, M. P., 89c:70052**
Sadek, Ibrahim S. *see* **Sloss, J. M.; et al., 89m:93041**
Samsonov, A. M. On the existence of solitons of longitudinal deformation in an infinite nonlinearly elastic rod. **89d:73020**
Scott, N. H. *see* **Fu, Y. B., 89c:73092**
Shin, Yung S. (*with* Haftka, Raphael T.; Plaut, Raymond H.) Simultaneous analysis and design for eigenvalue maximization. **89g:73035**
Sidel′nik, Ya. I. Existence and uniqueness of the generalized solution of a mixed problem for an equation of plate vibration type in a noncylindrical domain. (Russian) **89k:35242**
Skaar, Steven B. (*with* Michel, A. N.; Miller, Richard K.) Stability of viscoelastic control systems. **89a:93043**
Sloss, J. M. (*with* Adali, S.; Sadek, Ibrahim S.; Bruch, J. C., Jr.) Boundary feedback control of a vibrating beam subject to a displacement constraint. **89m:93041**
Stahel, Andreas A remark on the equation of a vibrating plate. **89h:35318**
Stoyan, V. A. Minimax filtering of space-time noise of forced oscillations of elastic rods. (Russian) **89k:93200**
Streng, J. H. Calculation of integrals which occur in the analysis of circular stretched membrane sound radiation. **89j:41043**
Trotsenko, V. A. Frequencies of the eigenoscillations of preliminarily deformed circular membranes with Biderman elastic potential. (Russian) **89h:73030**
Vasil′ev, D. G. (*with* Gol′denveĭzer, A. L.) Distribution of the frequencies of free oscillations of two- and three-dimensional elastic bodies. (Russian) (*see* **89j:73002**)
Wang, P. K. C. Feedback control of vibrations in an extendible cantilever sweptback wing. (*see* **89c:00031**)
Wojnar, Ryszard Uflyand-Mindlin's plate equations in thermoelasticity with one relaxation time. (Russian summary) **89b:73042**
You, Yun Cheng Dynamical boundary control of two-dimensional Petrovsky system: vibrating rectangular plate. **89e:93152**

73K15 Membranes, shells

Bielski, W. (*with* Telega, Józef Joachim) On existence of solutions for geometrically nonlinear shells and plates. **89i:73053**
Burygina, A. V. *see* **Rasskazov, A. O., 89j:73070**
DaDeppo, D. A. (*with* Keppel, W. J.) Betti's theorem for rotationally symmetric infinitesimal deformations superimposed on the finite deformation of a thin shell of revolution. **89i:73054**
Dickey, R. W. Membrane caps. **89a:73047a**
— Erratum: "Membrane caps". **89a:73047b**
— Membrane caps under hydrostatic pressure. **89c:73055**
Giorkhelidze, D. Sh. *see* **Valishvili, N. V.; et al.,** (**89j:00031**)
Grabmüller, Hans (*with* Novak, Erich) Nonlinear boundary value problems for the annular membrane: new results on existence of positive solutions. **89e:73028**
Grigorenko, Ya. M. Numerical solution of differential equations in the theory of shells with different formulations. (Russian) (*see* **89j:00031**)
van den Horn, B. A. (*with* Kuipers, M.) Strength and stiffness of a reinforced flexible hose. (Not in MR)
Keppel, W. J. *see* **DaDeppo, D. A., 89i:73054**
Kozin, A. B. *see* **Kozīna, G. O.,** (**89b:00008**)
Kozīna, G. O. (*with* Kozin, A. B.) Solution of a boundary value problem for a harmonic equation with jumps on two intersecting segments. (Russian) (*see* **89b:00008**)
Kuipers, M. *see* **van den Horn, B. A.,** (Not in MR)
Nedoma, Josef^2 Static calculation of shells by the finite-element method. (Czech) **89h:73029**
Novak, Erich *see* **Grabmüller, Hans, 89e:73028**
Rasskazov, A. O. (*with* Burygina, A. V.) On the strengthening of the shear theory of layered orthotropic shallow shells. **89j:73070**
Telega, Józef Joachim *see* **Bielski, W., 89i:73053**
Trotsenko, V. A. Frequencies of the eigenoscillations of preliminarily deformed circular membranes with Biderman elastic potential. (Russian) **89h:73030**
Tvalchrelidze, A. K. *see* **Valishvili, N. V.; et al.,** (**89j:00031**)
Valishvili, N. V. (*with* Giorkhelidze, D. Sh.; Tvalchrelidze, A. K.) A numerical study of nonlinear deformation of shells made of composite materials. (Russian) (*see* **89j:00031**)

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Aston, P. J. (*with* Whiteman, J. R.) Analysis of two-way snap of shells of revolution. **89k:73033**
Badalov, F. B. (*with* Khashimov, Zh.) ★ Решение неоднородных и нелинейных краевых задач теории пластин и оболочек методом сведения к задачам Коши. (Russian) [Solution of nonhomogeneous and nonlinear boundary value problems in the theory of plates and shells by the method of reduction to Cauchy problems] **89k:73044**

Chiang, Martin Y. M. *see* **Stolarski, Henryk K., 89j:73007**
Contri, P. (*with* Schrefler, B. A.) A geometrically nonlinear finite element analysis of wrinkled membrane surfaces by a no-compression material model. **89c:73058**
Grigolyuk, È. I. (*with* Shalashilin, V. I.) ★ Проблемы нелинейного деформирования. (Russian) [Problems of nonlinear deformation] **89m:73001**
Gudramovich, V. S. *see* **Mossakovskiĭ, V. I.; et al., 89j:73100**
Haaren, E. *see* **Hettich, R.; et al., 89a:49045**
Hettich, R. (*with* Haaren, E.; Ries, M.; Still, G.) Accurate numerical approximations of eigenfrequencies and eigenfunctions of elliptic membranes. (German and Russian summaries) **89a:49045**
Idczak, Włodzimierz (*with* Winnicki, I.) Stability and convergence of a numerical method applied to the dynamics of inelastic membranes. (Polish. English and Russian summaries) **89d:73001**
Ivanova, Jordanka (*with* Pastrone, Franco) Buckling of cylindrical plastic shells under axial compression. (Italian summary) **89k:73034**
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Larchenko, V. V. An adapting variational method under conditions of nonuniqueness of the solution and the singular perturbation. **89i:35013**
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Maslovskaya, L. V. Convergence of a semimixed finite element method for fundamental boundary value problems of the theory of shallow shells in weighted Sobolev spaces. **89h:73035**
Mol′chenko, L. V. Mathematical foundations of nonlinear magnetoelasticity in the theory of shells. (Russian) **89k:73061**
Mossakovskiĭ, V. I. (*with* Gudramovich, V. S.; Makeev, E. M.) ★ Контактные взаимодействия элементов оболочечных конструкций. (Russian) [Contact interactions of elements of shell constructions] **89j:73100**
Pastrone, Franco *see* **Ivanova, Jordanka, 89k:73034**
Peng, Xiao Lin Application of generalized function theory on the complete solutions of plates and shells. **89g:73031**
Postnikov, A. A. Application of the method of discrete operators to the calculation of anisotropic plates and shells of composite materials. (Russian) **89e:73029**
Ries, M. *see* **Hettich, R.; et al., 89a:49045**
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Shalashilin, V. I. *see* **Grigolyuk, È. I., 89m:73001**
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Stolarski, Henryk K. (*with* Chiang, Martin Y. M.) The mode-decomposition, C^0 formulation of curved, two-dimensional structural elements. **89j:73007**
Weinitschke, H. J. Boundary layer analysis for some problems of singular domain perturbation. (*see* **89g:58004**)
— On uniqueness of axisymmetric deformations of elastic plates and shells. **89k:73011**
Whiteman, J. R. *see* **Aston, P. J., 89k:73033**
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Zubchaninov, V. G. Theory of the stability of plates and shells beyond the limits of elasticity under complex loading. (Russian) **89g:73024**

73K20 Composite structures and materials

Blankenship, Gilmer L. Applications of homogenization theory to the control of flexible structures. **89k:73049**
Bourquin, Frédéric (*with* Ciarlet, Philippe G.) Modélisation des vibrations d'une multistructure formée d'un corps élastique tridimensionnel et d'une plaque. (English summary) [Modeling of the vibrations of a multistructure composed of a three-dimensional elastic body and a plate] **89i:73055**
Buttazzo, Giuseppe (*with* Kohn, Robert V.) Reinforcement by a thin layer with oscillating thickness. **89a:73048**
Ciarlet, Philippe G. *see* **Bourquin, Frédéric, 89i:73055**
Geymonat, G. (*with* Krasucki, F.; Marigo, J.-J.) Stress distribution in anisotropic elastic composite beams. **89c:73056**
Heng, Z. Boundary element study of an anisotropic plate. **89d:73034**
Kalamkarov, A. L. (*with* Kudryavtsev, B. A.; Parton, V. Z.) The asymptotic homogenization method in the mechanics of composite materials of regular structure. (Russian. English summary) **89a:73049**
— *see also* **Parton, V. Z.**, (Not in MR)
Kanibolot·skiĭ, M. A. (*with* Urzhumtsev, Yu. S.) Synergism in the mechanics of laminated structures. (Russian) **89h:73031**
Kohn, Robert V. *see* **Buttazzo, Giuseppe, 89a:73048** *and* **Strang, Gilbert, 89b:73027**
Kolpakov, A. G. (*with* Rakin, S. I.) A problem of the synthesis of a composite material of one-dimensional structure in a given class of materials. (Russian) **89c:73057**
Krasucki, F. *see* **Geymonat, G.; et al., 89c:73056**
Krivoĭ, A. F. (*with* Popov, G. Ya.; Radiollo, M. V.) Certain problems of an arbitrarily oriented stringer in a composite anisotropic plane. **89b:73025**
Kudryavtsev, B. A. *see* **Kalamkarov, A. L.; et al., 89a:73049**
Marigo, J.-J. *see* **Geymonat, G.; et al., 89c:73056**
Panagiotopoulos, P. D. Hemivariational inequalities and their applications to composite material structures. (*see* **89g:58004**)
— (*with* Stavroulakis, G. E.) A variational-hemivariational inequality approach to the laminated plate theory under subdifferential boundary conditions. **89m:73027b**
— *see also* **Stavroulakis, G. E., 89m:73027a**
Parton, V. Z. (*with* Kalamkarov, A. L.) Equations on the stability of three-dimensional bodies made of composites of regular structure. (Not in MR)
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Ponte Castañeda, P. (*with* Willis, J. R.) On the overall properties of nonlinearly viscous composites. **89b:73026**
Popov, G. Ya. *see* **Krivoĭ, A. F.; et al., 89b:73025**
Radiollo, M. V. *see* **Krivoĭ, A. F.; et al., 89b:73025**
Rakin, S. I. *see* **Kolpakov, A. G., 89c:73057**
Stavroulakis, G. E. (*with* Panagiotopoulos, P. D.) Laminated orthotropic plates under subdifferential boundary conditions. A variational-hemivariational inequality approach. (German and Russian summaries) **89m:73027a**
— *see also* **Panagiotopoulos, P. D., 89m:73027b**
Strang, Gilbert (*with* Kohn, Robert V.) Fibered structures in optimal design. **89b:73027**
Urzhumtsev, Yu. S. *see* **Kanibolot·skiĭ, M. A., 89h:73031**
Willis, J. R. *see* **Ponte Castañeda, P., 89b:73026**
Woźniak, Czesław Nonstandard modelling of certain quasi-stationary debonding processes in laminates. (*see* **89g:58004**)

Items with secondary classifications in 73K20

Ali, Asif *see* **Zaman, F. D.; et al., 89a:35066**
Andersson, Börje *see* **Storåkers, Bertil, 89m:73025**
Asghar, S. *see* **Zaman, F. D.; et al., 89a:35066**
Attouch, H. (*with* Buttazzo, Giuseppe) Homogenization of reinforced periodic one-codimensional structures. **89i:35012**
Bazdyreva, M. B. Solvability of the problem of the bending of a multilayered beam. (Russian) **89g:73028**
Buttazzo, Giuseppe *see* **Attouch, H., 89i:35012**
Calderón, Alberto Pedro *see* **Santos, Juan Enrique; et al., 89b:65277**
Chevalier, Y. Dispersion of harmonic waves in elastic and viscoelastic periodic composite materials. (*see* **89g:73001**)
Cioranescu, Doïna (*with* Saint Jean Paulin, Jeannine) Global behaviour of very thin cellular structures. Applications to networks. (*see* **89g:58004**)
Damlamian, Alain (*with* Vogelius, Michael) Homogenization limits of diffusion equations in thin domains. (French summary) **89j:35022**
Douglas, Jim, Jr. *see* **Santos, Juan Enrique; et al., 89b:65277**
Gabysheva, L. N. (*with* Kanibolot·skiĭ, M. A.) Optimization of the mass of a layered spherical shell made up of a finite collection of materials. (Russian) **89h:49020**
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Godzula, V. F. (*with* Guz′, A. N.; Shnerenko, K. I.) On problems of the statics of nonshallow anisotropic shells with holes. (Russian) **89i:73064**
Guz′, A. N. Theory of long-duration fracture of composite materials under compression. **89j:73089**
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Katz, I. Norman *see* **Ying, Xingren, 89g:73034**
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Lipton, Robert *see* **Kohn, Robert V., 89f:73012**
Maksimuk, A. V. *see* **Pelekh, B. L.; et al., 89j:73001**
Misra, J. C. (*with* Roy, S.) Free and forced vibrations of the cranial vault: study of a mathematical model. **89h:92030**
Oleĭnik, O. A. (*with* Shamaev, A. S.; Iosif′yan, G. A.) On the homogenization of stratified structures. **89i:35014**
Panagiotopoulos, P. D. Hemivariational inequalities and their applications. **89j:49002**
Panasenko, G. P. Boundary layer in homogenization problems for nonhomogeneous media. **89a:73012**
Pelekh, B. L. (*with* Maksimuk, A. V.; Korovaĭchuk, I. M.) ★ Контактные задачи для слоистых элементов конструкций и тел с покрытиями. (Russian) [Contact problems for layered elements of constructions and bodies with coatings] **89j:73001**
Postnikov, A. A. Application of the method of discrete operators to the calculation of anisotropic plates and shells of composite materials. (Russian) **89e:73029**
Reddy, J. N. On kinematic and constitutive models of laminated composite plates. **89i:73046**
Roy, S. *see* **Misra, J. C., 89h:92030**
Saint Jean Paulin, Jeannine *see* **Cioranescu, Doïna, (89g:58004)**
Santos, Juan Enrique (*with* Douglas, Jim, Jr.; Calderón, Alberto Pedro) Finite element methods for a composite model in elastodynamics. **89b:65277**
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Shnerenko, K. I. *see* **Godzula, V. F.; et al., 89i:73064**
Storåkers, Bertil (*with* Andersson, Börje) Nonlinear plate theory applied to delamination in composites. **89m:73025**
Tvalchrelidze, A. K. *see* **Valishvili, N. V.; et al., (89j:00031)**
Valishvili, N. V. (*with* Giorkhelidze, D. Sh.; Tvalchrelidze, A. K.) A numerical study of nonlinear deformation of shells made of composite materials. (Russian) (*see* **89j:00031**)
Vogelius, Michael *see* **Damlamian, Alain, 89j:35022**
Ying, Xingren (*with* Katz, I. Norman) Computation of eigenvalues and eigenfunctions for the stress singularity in a composite wedge. **89g:73034**
Zaman, F. D. (*with* Asghar, S.; Ali, Asif) An extended variational principle for a composite plate. **89a:35066**
Żochowski, Antoni Optimal perforation design in 2-dimensional elasticity. **89i:73063**

73K25 Finite element methods

Altenbach, J. (*with* Scholz, E.) Local mesh refinements and macro transition elements in stress analysis. (*see* **89c:65004**)
Babuška, I. (*with* Scapolla, Terenzio) Benchmark computation and performance evaluation for a rhombic plate bending problem. **89j:73071**
Behravesh, A. (*with* Kaveh, A.; Nani, M.; Sabet, S.) A set theoretical approach for configuration processing. **89j:73072**
Belytschko, Ted (*with* Lasry, David) A fractal patch test. **89f:73050**
Bernadou, Michel (*with* Trouvé, Pascal) Pseudo-conforming finite element approximation of linear thin shell problems. (*see* **89c:65004**)

Brockman, R. A. Geometric sensitivity analysis with local coordinate transformations. **89d:73035**

Chabas, F. (*with* Soize, C.) Modeling mechanical subsystems by boundary impedance in the finite element method. **89d:73036**

Contri, P. (*with* Schrefler, B. A.) A geometrically nonlinear finite element analysis of wrinkled membrane surfaces by a no-compression material model. **89c:73058**

Destuynder, Philippe (*with* Nevers, Thierry) A new finite element scheme for bending plates. **89c:73059**

Franca, Leopoldo P. *see* **Hughes, Thomas J. R., 89g:73033**

Hassan, K. (*with* Sarigül, N.) A study of the influence of the angle condition on plate bending of triangular finite elements. **89d:73037**

Hughes, Thomas J. R. (*with* Hulbert, Gregory M.) Space-time finite element methods for elastodynamics: formulations and error estimates. **89c:73060**

— (*with* Franca, Leopoldo P.) A mixed finite element formulation for Reissner-Mindlin plate theory: uniform convergence of all higher-order spaces. **89g:73033**

Hulbert, Gregory M. *see* **Hughes, Thomas J. R., 89c:73060**

Jiang, He Yang Variational bases for large deformed finite elements in plates and shells via a quasiconforming model. (Chinese. English summary) (Not in MR)

Kalashnikov, Yu. V. *see* **Podgaets, R. M.; et al.**, (**89b:00008**)

Katz, I. Norman *see* **Ying, Xingren, 89g:73034**

Kaveh, A. *see* **Behravesh, A.; et al., 89j:73072**

Khar′kov, V. S. *see* **Podgaets, R. M.; et al.**, (**89b:00008**)

Ladevèze, Pierre (*with* Pelle, J.-P.) Optimisation des maillages pour les calculs de fréquences propres. (English summary) [Optimal meshes for the calculation of the natural frequencies] **89f:73051**

Lasry, David *see* **Belytschko, Ted, 89f:73050**

Liu, Meng-Ru *see* **Malkus, David S.; et al., 89d:73038**

Malkus, David S. (*with* Qiu, Xiang Jun) Divisor structure of finite element eigenproblems arising from negative and zero masses. **89c:73061**

— (*with* Plesha, Michael E.; Liu, Meng-Ru) Reversed stability conditions in transient finite element analysis. **89d:73038**

Morris, G. R. *see* **Ortiz, Michael, 89c:73062**

Nani, M. *see* **Behravesh, A.; et al., 89j:73072**

Nevers, Thierry *see* **Destuynder, Philippe, 89c:73059**

Noor, Muhammad Aslam Finite element analysis for a class of nonlinear variational inequalities. **89b:73028**

Ortiz, Michael (*with* Morris, G. R.) C^0 finite element discretization of Kirchhoff's equations of thin plate bending. **89c:73062**

Pelle, J.-P. *see* **Ladevèze, Pierre, 89f:73051**

Pellerin, Francis Détermination de la rigidité des nœuds de structures tubulaires. (English summary) [Determination of the rigidity for the nodes for tubular structures] **89j:73073**

Pian, Theodore H. H. (*with* Wu, Chang Chun) A rational approach for choosing stress terms for hybrid finite element formulations. **89f:73052**

Plesha, Michael E. *see* **Malkus, David S.; et al., 89d:73038**

Podgaets, R. M. (*with* Khar′kov, V. S.; Kalashnikov, Yu. V.) Investigation of the loaded-deformed state of a tetrahedral pyramidal shell. (Russian) (*see* **89b:00008**)

Postnikov, A. A. Application of the method of discrete operators to the calculation of anisotropic plates and shells of composite materials. (Russian) **89e:73029**

Pramila, A. *see* **Virtanen, S., 89c:73064**

Qiu, Xiang Jun *see* **Malkus, David S., 89c:73061**

Rathod, H. T. Some analytical integration formulae for a four node isoparametric element. **89i:73056**

Sabet, S. *see* **Behravesh, A.; et al., 89j:73072**

Sarigül, N. *see* **Hassan, K., 89d:73037**

Scapolla, Terenzio *see* **Babuška, I., 89j:73071**

Scholz, E. *see* **Altenbach, J.**, (**89c:65004**)

Schrefler, B. A. *see* **Contri, P., 89c:73058**

Shen, C. Y. (*with* Vaugrant, P.) Finite element and continuation method for planar deformation of thin structures. **89i:73057**

Soize, C. *see* **Chabas, F., 89d:73036**

Spiridigliozzi, Luciano *see* **Tessler, Alexander, 89c:73063**

Stenberg, R. Two low-order mixed methods for the elasticity problem. **89j:73074**

Tessler, Alexander (*with* Spiridigliozzi, Luciano) Some issues of numerical integration and penalty relaxation in anisoparametric shell element formulation. **89c:73063**

Trouvé, Pascal *see* **Bernadou, Michel**, (**89c:65004**)

Vaugrant, P. *see* **Shen, C. Y., 89i:73057**

Virtanen, S. (*with* Pramila, A.) A refined Hermitian isoparametric plate bending element. **89c:73064**

Wu, Chang Chun *see* **Pian, Theodore H. H., 89f:73052**

Ying, Xingren (*with* Katz, I. Norman) Computation of eigenvalues and eigenfunctions for the stress singularity in a composite wedge. **89g:73034**

Items with secondary classifications in 73K25

Adamczyk, T. *see* **Burczyński, T.**, (**89f:65003**)

Aguinagalde, J. M. (*with* No, M.) A new method for the optimization of dimensions of structures modelled by finite elements. (Spanish. English summary) **89k:73051**

Amiro, I. Ya. (*with* Zarutskiĭ, V. A.; Revutskiĭ, V. N.; Skosarenko, Yu. V.; Telalov, A. I.; Fialko, S. Yu.) ★ Колебания ребристых оболочек вращения. (Russian) [Vibrations of ribbed shells of revolution] **89h:73034**

Arnold, D. N. (*with* Falk, Richard S.) A new mixed formulation for elasticity. **89f:73020**

Aston, P. J. (*with* Whiteman, J. R.) Analysis of two-way snap of shells of revolution. **89k:73033**

Babuška, I. *see* **Jensen, Soren S., 89m:65101**

Balasundaram, S. (*with* Bhattacharyya, Pijush Kanti) A mixed finite-element method for fourth-order elliptic problems with variable coefficients. **89i:65112**

Bauchau, O. A. (*with* Hong, C. H.) Nonlinear response and stability analysis of beams using finite elements in time. **89i:73048**

Bendsøe, Martin P. (*with* Kikuchi, Noboru) Generating optimal topologies in structural design using a homogenization method. **89i:73058**

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Bigi, Dante (*with* Cicala, Placido) Weighted residuals as a basis of a general solution method in elasticity. (Italian summary) **89k:73018**

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Bourgat, J.-F. (*with* Le Tallec, Patrick; Mani, S.) Modélisation et calcul des grands déplacements de tuyaux élastiques en flexion-torsion. (English summary) [Numerical simulation of the large displacements of elastic pipes in flexion and torsion] **89m:73021**

Brebbia, Carlos Alberto (*with* Telles, J. C. F.; Wrobel, L. C.) ★ Методы граничных элементов. (Russian) [Boundary element techniques] **89i:65002**

— *see also* **Hayami, K., 89i:73005**

Burczyński, T. (*with* Adamczyk, T.) Boundary element method for shape design synthesis of elastic structures. (*see* **89f:65003**)

Cardona, A. (*with* Geradin, M.) A beam finite element nonlinear theory with finite rotations. **89k:73042**

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Costa, Jesus Adjalma, Jr. Plate vibrations using BEM. **89a:65166**

Dautov, R. Z. A variant of the finite element method for boundary value problems in punctured domains with periodic structure. (Russian) **89c:65118**

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Ducatel, Y. *see* **Bernadou, Michel; et al., 89b:65257**

Falk, Richard S. *see* **Arnold, D. N., 89f:73020**

Fialko, S. Yu. *see* **Amiro, I. Ya.; et al., 89h:73034**

Geradin, M. *see* **Cardona, A., 89k:73042**

Goodsell, G. *see* **Whiteman, J. R., 89d:73046** *and* **89h:65195**

Gopalsamy, S. *see* **Bhattacharyya, Pijush Kanti, 89h:65174**

Griffiths, D. V. *see* **Smith, I. M., 89d:65101**

(Grigolyuk, È. I.) *see* **Brebbia, Carlos Alberto; et al., 89i:65002**

Guo, Ben Qi The *h-p* version of the finite element method for elliptic equations of order $2m$. **89j:65072**

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Kikuchi, Noboru *see* **Bendsøe, Martin P., 89i:73058**

Kónya, I. (*with* Rózsa, P.; Szabados, T.) Applications of orthogonal polynomials for improving the accuracy of the finite element method. **89c:65121**

(Korneĭchuk, L. G.) *see* **Brebbia, Carlos Alberto; et al., 89i:65002**

Le Tallec, Patrick *see* **Bourgat, J.-F.; et al., 89m:73021**

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Maslovskaya, L. V. Convergence of a semimixed finite element method for fundamental boundary value problems of the theory of shallow shells in weighted Sobolev spaces. **89h:73035**

Namburu, Raju R. *see* **Tamma, Kumar K., 89j:73008**

Nedoma, Josef^2 Static calculation of shells by the finite-element method. (Czech) **89h:73029**

Nevers, Thierry *see* **Destuynder, Philippe, 89f:73045**

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Pitkäranta, Juhani A modified Reissner-Mindlin formulation for plates with corners. **89j:73065**

— Analysis of some low-order finite element schemes for Mindlin-Reissner and Kirchhoff plates. **89f:65126**

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Revutskiĭ, V. N. *see* **Amiro, I. Ya.; et al., 89h:73034**

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Schreyer, H. L. *see* **Robey, T. H., 89b:65276**

Schwarz, H.-R. ★ Finite element methods. **89h:65190**

Skosarenko, Yu. V. *see* **Amiro, I. Ya.; et al., 89h:73034**

Smith, I. M. (*with* Griffiths, D. V.) ★ Programming the finite element method. **89d:65101**

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Szabados, T. *see* **Kónya, I.; et al., 89c:65121**

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Tan, Bang Ben The application of generalized variational principle in finite element semi-analytical method. **89m:65104**
Telalov, A. I. *see* **Amiro, I. Ya.; et al., 89h:73034**
Telles, J. C. F. *see* **Brebbia, Carlos Alberto; et al., 89i:65002**
Trouvé, Pascal *see* **Bernadou, Michel; et al., 89b:65257**
Udwadia, F. E. Uniqueness in the identification of a bending beam modeled by finite elements. **89i:73051**
Venkatesh, A. *see* **Jirousek, J., 89j:73005**
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(Whiteman, Caroline M.) *see* **Schwarz, H.-R., 89h:65190**
Whiteman, J. R. (*with* Goodsell, G.) Superconvergent recovery for stresses from finite element approximations on subdomains for planar problems of linear elasticity. **89h:65195**
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— *see also* **Aston, P. J., 89k:73033** *and* **Schwarz, H.-R., 89h:65190**
Wrobel, L. C. *see* **Brebbia, Carlos Alberto; et al., 89i:65002**
Xie, Zheng Hui Numerical solution of a thin plate problem with a constraint on the mean curvature. (Chinese. English summary) **89i:73047**
Yu, De Hao Self-adaptive boundary element methods. **89h:65197**
Zarutskiĭ, V. A. *see* **Amiro, I. Ya.; et al., 89h:73034**
Zhan, Chong Xi Nonconforming finite elements with compensation for plate bending problems. **89b:65283**

73K30 Other numerical methods

Górecki, Z. (*with* Rybicki, J.) A new method calculating stresses and displacements in elastic bars. (Russian and Polish summaries) **89j:73075**
Liu, Xiu He Solution strategies for structural nonlinear problems. (Chinese summary) **89f:73053**
Rybicki, J. *see* **Górecki, Z., 89j:73075**

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Abdel-Akher, Ahmed (*with* Hartley, Gilbert A.) Evaluation of boundary integrals for plate bending. **89j:73003**
Ahmed, Sk. Shamim (*with* Dey, Santi Sekhar) The circle-polygon paradox in the light of the boundary-element method. **89e:73026**
Al-Khaiat, Husain Initial-value analysis of continuous orthotropic plates. **89c:73046**
Antes, Heinz ★ Anwendungen der Methode der Randelemente in der Elastodynamik und der Fluiddynamik. (German) [Applications of the method of boundary elements in elastodynamics and in fluid dynamics] **89k:73002**
Azar′eva, S. V. *see* **Kovalenko, A. N., 89i:41009**
Bielak, J. *see* **Foelsche, G. A.; et al., 89i:73059**
Cao, Zhi Hao Solving large sparse linear and quadratic generalized eigenvalue problems. **89a:65059**
Chen, Goong (*with* Krantz, Steven G.; Russell, David L.; Wayne, C. Eugene; West, Harry H.; Zhou, Jian-Xin) Modelling, analysis and testing of dissipative beam joints—experiments and data smoothing. (*see* **89d:00007**)
Dey, Santi Sekhar *see* **Ahmed, Sk. Shamim, 89e:73026**
Foelsche, G. A. (*with* Griffin, J. H.; Bielak, J.) Transient response of joint-dominated space structures: a new linearization technique. **89i:73059**
Griffin, J. H. *see* **Foelsche, G. A.; et al., 89i:73059**
Grigorenko, Ya. M. (*with* Kryukov, N. N.) ★ Численное решение задач статики гибких слоистых оболочек с переменными параметрами. (Russian) [Numerical solution of problems of the statics of flexible layered shells with variable parameters] **89j:73086**
Hartley, Gilbert A. *see* **Abdel-Akher, Ahmed, 89j:73003**
Ji, Zhen Yi *see* **Ye, Kai Yuan, 89k:73057**
Kovalenko, A. N. (*with* Azar′eva, S. V.) Choice of nodes for multidimensional interpolation in problems of the optimal design of mechanical systems. **89i:41009**
Krantz, Steven G. *see* **Chen, Goong; et al., (89d:00007)**
Kryukov, N. N. *see* **Grigorenko, Ya. M., 89j:73086**
Postnikov, A. A. Application of the method of discrete operators to the calculation of anisotropic plates and shells of composite materials. (Russian) **89e:73029**
Rokva, Zh. P. Solution of a problem on the bending of an elastic plate for domains with corners. (Russian. English and Georgian summaries) **89c:73051**
Russell, David L. *see* **Chen, Goong; et al., (89d:00007)**
Sadovský, Z. Approximate solution to the Föppl-Kármán-Marguerre equations. (Not in MR)
Tirmizi, S. I. A. *see* **Twizell, E. H., 89b:65196**
Twizell, E. H. (*with* Tirmizi, S. I. A.) Multiderivative methods for nonlinear beam problems. **89b:65196**
Wayne, C. Eugene *see* **Chen, Goong; et al., (89d:00007)**
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Zhou, Jian-Xin *see* **Chen, Goong; et al., (89d:00007)**
Zieliński, A. P. Trefftz method: elastic and elastoplastic problems. **89d:65103**

73K35 Random excitation

Chmielewski, Tadeusz Reliability analysis of discrete dynamic systems under nonstationary random excitations. (*see* **89g:73038**)
Jones, J. G. An equivalence between deterministic and probabilistic design criteria for linear systems. **89h:73032**
Long, F. X. *see* **Yang, J. N.; et al., 89j:73076**
To, C. W. S. Direct integration operators and their stability for random response of multi-degree-of-freedom systems. **89k:73050**
Wong, D. *see* **Yang, J. N.; et al., 89j:73076**
Yang, J. N. (*with* Long, F. X.; Wong, D.) Optimal control of nonlinear structures. **89j:73076**

Items with secondary classifications in 73K35

Bjerager, Peter *see* **Madsen, Henrik O., 89j:73043**
Bondarev, P. A. *see* **Mitropol′skiĭ, Yu. A.; et al., 89g:34062**
Chueshov, I. D. Construction of solutions of a stochastic modified system of von Kármán equations. (Russian) **89h:35282**
Cruse, T. A. (*with* Wu, Y.-T.; Dias, B.; Rajagopal, K. R.) Probabilistic structural analysis methods and applications. **89g:73003**
Dias, B. *see* **Cruse, T. A.; et al., 89g:73003**
Iwankiewicz, R. (*with* Wójcicki, Z.) Threshold crossings in a linear oscillator due to a Poissonian train of general pulses. (Russian and Polish summaries) **89i:70039**
Kolomiets, V. G. *see* **Mitropol′skiĭ, Yu. A.; et al., 89g:34062**
Madsen, Henrik O. (*with* Bjerager, Peter) Reliability of ideal plastic systems based on lower-bound theorem. **89j:73043**
Mignolet, M. P. *see* **Spanos, P. D., 89i:93130**
Mitropol′skiĭ, Yu. A. (*with* Kolomiets, V. G.; Bondarev, P. A.) Application of asymptotic methods of nonlinear mechanics for the investigation of the oscillations of systems with distributed parameters. (Russian) **89g:34062**
Rajagopal, K. R. *see* **Cruse, T. A.; et al., 89g:73003**
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Wójcicki, Z. *see* **Iwankiewicz, R., 89i:70039**
Wu, Y.-T. *see* **Cruse, T. A.; et al., 89g:73003**

73K40 Optimization

Aguinagalde, J. M. (*with* No, M.) A new method for the optimization of dimensions of structures modelled by finite elements. (Spanish. English summary) **89k:73051**
Arora, J. S. *see* **Cardoso, J. B., 89e:73031**
Banichuk, N. V. (*with* Kobelev, V. V.) On optimal plastic anisotropy. **89f:73054**
— Structural design and optimization of elastoplastic constructions. (Russian) (*see* **89j:73002**)
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Barone, M. R. (*with* Yang, R. J.) Boundary integral equations for recovery of design sensitivities in shape optimization. **89e:73030**
Bendsøe, Martin P. (*with* Olhoff, Niels; Taylor, John E.) On the design of structure and controls for optimal performance of actively controlled flexible structures. **89f:73055**
— (*with* Kikuchi, Noboru) Generating optimal topologies in structural design using a homogenization method. **89i:73058**
— (*with* Sokołowski, Jan) Design sensitivity analysis of elastic-plastic analysis problems. **89j:73077**
Benedict, R. *see* **Chenais, D.; et al., 89f:73056**
Bennati, S. (*with* Forte, Sandra) Optimum reinforcement of a circular hole under an arbitrary stress system at infinity. (Italian summary) **89j:73078**
Bielak, J. *see* **Foelsche, G. A.; et al., 89i:73059**
Cardoso, J. B. (*with* Arora, J. S.) Variational method for design sensitivity analysis in nonlinear structural mechanics. **89e:73031**
Chenais, D. (*with* Rousselet, Bernard; Benedict, R.) Design sensitivity for arch structures with respect to midsurface shape under static loading. **89f:73056**
Choi, Joo Ho (*with* Kwak, Byung Man) Boundary integral equation method for shape optimization of elastic structures. **89d:73039**
Choi, Kyung K. *see* **Haug, Edward J.; et al., 89i:73061** *and* **89i:73062**
Dems, K. (*with* Mróz, Z.) A variational approach to sensitivity analysis and structural optimization of plane arches. **89f:73057**
Dryja, M. *see* **Udwadia, F. E.; et al., 89m:73028**
Foelsche, G. A. (*with* Griffin, J. H.; Bielak, J.) Transient response of joint-dominated space structures: a new linearization technique. **89i:73059**
Forte, Sandra *see* **Bennati, S., 89j:73078**
Gajewski, Antoni (*with* Życzkowski, Michał) ★ Optimal structural design under stability constraints. **89i:73060**
Garstecki, A. (*with* Mróz, Z.) Optimal design of supports of elastic structures subjected to loads and initial distortions. **89f:73058**
Griffin, J. H. *see* **Foelsche, G. A.; et al., 89i:73059**
Hadhri, T. Prise en compte d'une force linéique de frontière dans un modèle de plaques de Hencky comportant une non-linéarité géométrique. (English summary) [Accounting for a boundary line force in a Hencky plate model containing a geometric nonlinearity] **89k:73052**
Haftka, Raphael T. *see* **Shin, Yung S.; et al., 89g:73035** *and* **89g:73036**
Haug, Edward J. (*with* Choi, Kyung K.; Komkov, V.) ★ Design sensitivity analysis of structural systems. **89i:73061**
— (*with* Choi, Kyung K.; Komkov, V.) ★ Анализ чувствительности при проектировании конструкций. (Russian) [Sensitivity analysis in the design of structures] **89i:73062**
Hlaváček, I. Weight minimization of an elastic beam with classical and nonclassical boundary conditions. (German and Russian summaries) **89b:73029**
— Shape optimization of elastoplastic bodies by the finite element method. **89f:73059**
(Ivanova, S. Yu.) *see* **Haug, Edward J.; et al., 89i:73062**
Jendo, S. (*with* Stachowicz, A.) Multilevel optimization in civil engineering structural design. **89b:73030**
Khot, N. S. *see* **Rao, S. S.; et al., 89e:73033**
Kikuchi, Noboru *see* **Bendsøe, Martin P., 89i:73058**
Kim, Ki-Ook (*with* Wallerstein, David V.) Modal design sensitivities for multiple eigenvalues. **89e:73032**
Kirsch, Uri Optimal topologies of truss structures. **89k:73053**
Kobelev, V. V. *see* **Banichuk, N. V., 89f:73054**
Komkov, V. *see* **Haug, Edward J.; et al., 89i:73061** *and* **89i:73062**
Koski, Juhani Multicriteria truss optimization. (*see* **89f:90171**)
Kwak, Byung Man *see* **Choi, Joo Ho, 89d:73039**

(Larichev, A. D.) *see* **Haug, Edward J.; et al., 89i:73062**
Mantel, F. *see* **Udwadia, F. E.; et al., 89m:73028**
Matsumoto, Ryuichi *see* **Tada, Yukio; et al.,** (Not in MR)
Meriç, R. A. Shape optimization of thermoelastic solids. **89f:73060**
Mróz, Z. *see* **Dems, K., 89f:73057** *and* **Garstecki, A., 89f:73058**
Neittaanmäki, Pekka Methods for optimal shape design problems. (*see* **89m:78001**)
No, M. *see* **Aguinagalde, J. M., 89k:73051**
Olhoff, Niels *see* **Bendsøe, Martin P.; et al., 89f:73055**
Plaut, Raymond H. *see* **Shin, Yung S.; et al., 89g:73035** *and* **89g:73036**
Rao, S. S. (*with* Venkayya, V. B.; Khot, N. S.) Game theory approach for the integrated design of structures and controls. **89e:73033**
Rodrigues, Helder C. Shape optimal design of elastic bodies using a mixed variational formulation. **89e:73034**
Rousselet, Bernard *see* **Chenais, D.; et al., 89f:73056**
Sadek, Edward A. An optimality criterion method for dynamic optimization of structures. (Not in MR)
Shalashilin, V. I. Optimization of the parameter of continuation of the solution of the equations of nonlinear deformation of elastic systems. (Russian) **89f:73061**
Shin, Yung S. (*with* Haftka, Raphael T.; Plaut, Raymond H.) Simultaneous analysis and design for eigenvalue maximization. **89g:73035**
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Sokołowski, Jan *see* **Bendsøe, Martin P., 89j:73077**
Stachowicz, A. *see* **Jendo, S., 89b:73030**
Stadler, Wolfram Natural structural shapes (a unified optimal design philosophy). (*see* **89f:90171**)
Tada, Yukio (*with* Matsumoto, Ryuichi; Yoshida, Makoto) Reliability-based optimum design of continuum structures. (Not in MR)
Taylor, John E. *see* **Bendsøe, Martin P.; et al., 89f:73055**
Udwadia, F. E. (*with* Mantel, F.; Dryja, M.) On the optimal design of structures subjected to periodic base excitations. **89m:73028**
Venkayya, V. B. *see* **Rao, S. S.; et al., 89e:73033**
Wallerstein, David V. *see* **Kim, Ki-Ook, 89e:73032**
Watson, Layne T. *see* **Shin, Yung S.; et al., 89g:73036**
White, L. W. Estimation of flexural rigidity in a Kirchhoff plate model. **89j:73079**
Yang, R. J. *see* **Barone, M. R., 89e:73030**
Yoshida, Makoto *see* **Tada, Yukio; et al.,** (Not in MR)
Żochowski, Antoni Optimal perforation design in 2-dimensional elasticity. **89i:73063**
Życzkowski, Michał *see* **Gajewski, Antoni, 89i:73060**

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Bantsuri, R. D. (*with* Isakhanov, R. S.) Some inverse problems in elasticity theory. (Russian) **89b:73022**
Barnes, David C. Extremal problems for eigenvalue functionals. II. **89h:35246**
Bayard, David S. (*with* Hadaegh, F. Y.; Meldrum, D. R.) Optimal experiment design for identification of large space structures. **89d:93035**
Bendsøe, Martin P. (*with* Sokołowski, Jan) Sensitivity analysis and optimal design of elastic plates with unilateral point supports. **89f:73044**
Bunimovich, A. I. (*with* Yakunina, G. E.) On the shape of minimum-resistance solids of revolution moving in plastically compressible and elastic-plastic media. **89j:73044**
Delfour, M. C. (*with* Zolésio, J.-P.) Further development in shape sensitivity analysis via penalization method. **89h:49009**
— (*with* Zolésio, J.-P.) Shape sensitivity analysis via min max differentiability. **89h:49010**
Eschenauer, Hans A. Multicriteria optimization techniques for highly accurate focusing systems. (*see* **89f:90171**)
Gabrielyan, M. S. *see* **Sarkisyan, V. S.; et al., 89d:73033**
Gabysheva, L. N. (*with* Kanibolot·skiĭ, M. A.) Optimization of the mass of a layered spherical shell made up of a finite collection of materials. (Russian) **89h:49020**
Gao, Yang Inverse variational principle in finite elasticity. **89f:73035**
Glasko, V. B. (*with* Nyunin, B. N.; Tikhonov, A. N.; Trubetskov, M. K.) The problem of reducing acoustic noise in the interior of a car. (Russian) **89j:76074**
Gospodinov, G. (*with* Yanachkov, O.) On the solution of a problem of the optimal form of a membrane shell by the boundary element method. (Bulgarian. English and Russian summaries) **89f:73063**
Hadaegh, F. Y. *see* **Bayard, David S.; et al., 89d:93035**
Haslinger, J. (*with* Neittaanmäki, Pekka; Tiihonen, Timo; Kaarna, A.) Optimal shape design and unilateral boundary value problems. I, II. **89j:49001**
Isakhanov, R. S. *see* **Bantsuri, R. D., 89b:73022**
Kaarna, A. *see* **Haslinger, J.; et al., 89j:49001**
Kanibolot·skiĭ, M. A. (*with* Urzhumtsev, Yu. S.) Synergism in the mechanics of laminated structures. (Russian) **89h:73031**
— *see also* **Gabysheva, L. N., 89h:49020**
Khashimov, Zh. *see* **Badalov, F. B., 89k:73044**
Kohn, Robert V. *see* **Strang, Gilbert, 89b:73027**
Komkov, V. ★ Variational principles of continuum mechanics with engineering applications. Vol. 2. **89h:73002**
Littman, Walter (*with* Markus, Lawrence) Exact boundary controllability of a hybrid system of elasticity. **89j:93007**
Long, F. X. *see* **Yang, J. N.; et al., 89j:73076**
Markus, Lawrence *see* **Littman, Walter, 89j:93007**
Meldrum, D. R. *see* **Bayard, David S.; et al., 89d:93035**
Neittaanmäki, Pekka *see* **Haslinger, J.; et al., 89j:49001**
Nyunin, B. N. *see* **Glasko, V. B.; et al., 89j:76074**
Oleĭnik, O. A. Homogenization problems in elasticity. Spectra of singularly perturbed operators. **89c:73022**
Sadek, Ibrahim S. Necessary and sufficient conditions for the optimal control of distributed parameter systems subject to integral constraints. **89g:49032**
Sarkisyan, V. S. (*with* Gabrielyan, M. S.; Yusif, Yu. Dzh.) Optimal stabilization of an orthotropic rectangular plate. (Russian. English and Armenian summaries) **89d:73033**
Seĭranyan, A. P. Multiple eigenvalues in optimization problems. **89g:49059**
Sokołowski, Jan Sensitivity analysis of contact problems with prescribed friction. **89f:73071**
— *see also* **Bendsøe, Martin P., 89f:73044**
Song, Chang Ho Mathematical models of mechanical networks and their properties. (Korean. English summary) (Not in MR)
Strang, Gilbert (*with* Kohn, Robert V.) Fibered structures in optimal design. **89b:73027**
(Thoft-Christensen, P.) *see* **Reliability and optimization of structural systems, 89g:73038**
Tiihonen, Timo *see* **Haslinger, J.; et al., 89j:49001**
Tikhonov, A. N. *see* **Glasko, V. B.; et al., 89j:76074**
Trubetskov, M. K. *see* **Glasko, V. B.; et al., 89j:76074**
Urzhumtsev, Yu. S. *see* **Kanibolot·skiĭ, M. A., 89h:73031**
Wong, D. *see* **Yang, J. N.; et al., 89j:73076**
Yakunina, G. E. *see* **Bunimovich, A. I., 89j:73044**
Yanachkov, O. *see* **Gospodinov, G., 89f:73063**
Yang, J. N. (*with* Long, F. X.; Wong, D.) Optimal control of nonlinear structures. **89j:73076**
Yusif, Yu. Dzh. *see* **Sarkisyan, V. S.; et al., 89d:73033**
Zolésio, J.-P. *see* **Delfour, M. C., 89h:49009** *and* **89h:49010**

Items listed otherwise than by author

Aalborg ★ Reliability and optimization of structural systems. **89g:73038**
IFIP Conference:
  Reliability and Optimization of Structural Systems ★ Reliability and optimization of structural systems. **89g:73038**
Lecture Notes in Engineering ★ Reliability and optimization of structural systems. **89g:73038**
Reliability and optimization of structural systems ★ Reliability and optimization of structural systems. **89g:73038**

73K99 None of the above, but in this section

Antona, Ettore Displacement and force configurations having static characteristic propagation in discretized structures. (Italian summary) **89d:73040**
Bryson, Arthur E., Jr. *see* **Wie, Bong, 89k:73055**
Chernyavskaya, S. S. On a study of the dynamics of systems of bodies that contain stretched elastic elements in a central force field. (Russian) (*see* **89i:70003**)
Cioranescu, Doïna (*with* Saint Jean Paulin, Jeannine) Tall structures—problem of towers and cranes. **89k:73054**
Davydov, M. G. An algorithm for solving a problem of the elastoplastic buckling of a reinforced plate. (Russian) (*see* **89c:00008**)
Ditlevsen, O. Reliability computations for rigid plastic frames with general yield conditions. **89j:73080**
Goodman, L. E. *see* **Nelson, Carl Anthony, 89c:73066**
Inman, D. J. (*with* Olsen, C. L.) Dynamics of symmetrizable nonconservative systems. **89b:73031**
Kaveh, A. Topological properties of skeletal structures. **89c:73065**
— Suboptimal cycle bases of graphs for the flexibility analysis of skeletal structures. **89j:73081**
Keller, J. B. *see* **Maddocks, J. H., 89g:73037**
Leipholz, H. H. E. On the occurrence of nonselfadjointness in the control of elastic structures. **89f:73062**
Lin, Yuyi (*with* Pisano, Albert P.) The differential geometry of the general helix as applied to mechanical springs. **89j:73082**
Maddocks, J. H. (*with* Keller, J. B.) Ropes in equilibrium. **89g:73037**
Matsumoto, Hiroyuki[1] *see* **Murotsu, Yoshisada; et al., 89j:73083**
Melchers, R. E. ★ Structural reliability. **89a:73050**
Murotsu, Yoshisada (*with* Okubo, Hiroshi; Matsumoto, Hiroyuki[1]; Okawa, Yoshiyuki; Terui, Fuyuto) Tendon control system for flexible space structures. **89j:73083**
Nelson, Carl Anthony (*with* Goodman, L. E.) A hypercircle method of frame analysis. I. Theory. **89c:73066**
Okawa, Yoshiyuki *see* **Murotsu, Yoshisada; et al., 89j:73083**
Okubo, Hiroshi *see* **Murotsu, Yoshisada; et al., 89j:73083**
Olsen, C. L. *see* **Inman, D. J., 89b:73031**
Pisano, Albert P. *see* **Lin, Yuyi, 89j:73082**
Ramamurti, V. (*with* Rao, M. Ananda) Dynamic analysis of spur gear teeth. (Not in MR)
Rao, M. Ananda *see* **Ramamurti, V.,** (Not in MR)
Rosenau, Philip Dynamics of systems in close-to-continuum conditions. **89c:73067**
Saint Jean Paulin, Jeannine *see* **Cioranescu, Doïna, 89k:73054**
Simo, J. C. (*with* Vu-Quoc, L.) The role of nonlinear theories in transient dynamic analysis of flexible structures. **89a:73051**
Terui, Fuyuto *see* **Murotsu, Yoshisada; et al., 89j:73083**
(Thoft-Christensen, P.) *see* **Reliability and optimization of structural systems, 89g:73038**
Vu-Quoc, L. *see* **Simo, J. C., 89a:73051**
Wie, Bong (*with* Bryson, Arthur E., Jr.) Pole-zero modeling of flexible space structures. **89k:73055**

Items listed otherwise than by author

Aalborg ★ Reliability and optimization of structural systems. **89g:73038**
IFIP Conference:
  Reliability and Optimization of Structural Systems ★ Reliability and optimization of structural systems. **89g:73038**
Lecture Notes in Engineering ★ Reliability and optimization of structural systems. **89g:73038**
Reliability and optimization of structural systems ★ Reliability and optimization of structural systems. **89g:73038**

Items with secondary classifications in 73K99

Ahmed, N. U. *see* **Biswas, Saroj K., 89m:70067**
Antes, Heinz ★ Anwendungen der Methode der Randelemente in der Elastodynamik und der Fluiddynamik. (German) [Applications of the method of boundary elements in elastodynamics and in fluid dynamics] **89k:73002**
(Baker, J. Eddie) *see* **Tarnai, Tibor, 89f:51086**
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Biswas, Saroj K. (*with* Ahmed, N. U.) Optimal control of large space structures governed by a coupled system of ordinary and partial differential equations. **89m:70067**
Bjerager, Peter *see* **Madsen, Henrik O., 89j:73043**
Blake, Andrew (*with* Zisserman, Andrew) ★ Visual reconstruction. **89k:92086**
Carasso, A. S. (*with* Simiu, Emil) Identification of dynamic Green's functions in structural networks. (Not in MR)
Chesser, H. G. (*with* Rimrott, F. P. J.) Attitude drift of torque-free flexible gyros using the viscous damping model. **89k:70015**
Chung, Sangwoo *see* **Padovan, Joe; et al., 89h:34003**
Cioranescu, Doïna (*with* Saint Jean Paulin, Jeannine) Elastic behaviour of very thin cellular structures. (*see* **89f:73005**)
Curtain, R. F. L_∞-approximations of complex functions and robust controllers for large flexible space structures. **89i:93001**
Furuta, Hitoshi *see* **Shiraishi, Naruhito; et al., 89d:73047**
Guo, Y. H. *see* **Padovan, Joe; et al., 89h:34003**
Hsü, Tê Hsiu (*with* Lin, Hsien Hsiang) Optimal control with responses and control force constraints. (Chinese summary) **89j:93062**
Leung, A. Y. T. Inverse iteration for the quadratic eigenvalue problem. **89f:65041**
Liaw, C. Y. Chaotic and periodic responses of a coupled wave-force and structure system. **89k:73039**
Lin, Hsien Hsiang *see* **Hsü, Tê Hsiu, 89j:93062**
Madsen, Henrik O. (*with* Bjerager, Peter) Reliability of ideal plastic systems based on lower-bound theorem. **89j:73043**
Maier, Giulio (*with* Novati, G.) Deformation bounds for elastic-plastic discrete structures with piecewise linear yield locus and nonlinear hardening. **89j:73045**
Novati, G. *see* **Maier, Giulio, 89j:73045**
Ozaki, Yoshinobu *see* **Shiraishi, Naruhito; et al., 89d:73047**
Padovan, Joe (*with* Chung, Sangwoo; Guo, Y. H.) Asymptotic steady state behavior of fractionally damped systems. **89h:34003**
Pellegrino, S. On the rigidity of triangulated hyperbolic paraboloids. **89j:70003**
Rimrott, F. P. J. *see* **Chesser, H. G., 89k:70015**
Saint Jean Paulin, Jeannine *see* **Cioranescu, Doïna**, (**89f:73005**)
Schumacher, J. M. Analytic methods for the modeling of flexible structures. **89j:93066**
Shiraishi, Naruhito (*with* Furuta, Hitoshi; Ozaki, Yoshinobu) Application of fuzzy set theory to fatigue analysis of bridge structures. **89d:73047**
Simiu, Emil *see* **Carasso, A. S.**, (Not in MR)
Tarnai, Tibor Les mécanismes finis et la charpente octogonale de la cathédrale d'Ely. [Finite mechanisms and the timber octagon of Ely cathedral] **89f:51086**
Zisserman, Andrew *see* **Blake, Andrew, 89k:92086**

73Lxx Theory of shells

Libai, A. (*with* Simmonds, James G.) ★ The nonlinear theory of elastic shells. **89d:73041**
Simmonds, James G. *see* **Libai, A., 89d:73041**

73L05 Non-Euclidean geometry, tensorial methods [see also 53A45]

Axelrad, E. L. (*with* Emmerling, F. A.) Vector and tensor form of intrinsic shell-theory relations. **89a:73052**
Bonadies, M. (*with* Tonon, M. L.) Universal solutions for elastic shells. (Italian summary) **89k:73056**
Emmerling, F. A. *see* **Axelrad, E. L., 89a:73052**
Meunargiya, T. V. On a method of I. N. Vekua in the theory of shells. (Russian) (*see* **89j:00031**)
Pogorelov, A. V. ★ Bendings of surfaces and stability of shells. **89j:73084**
(Schulenberger, J. R.) *see* **Pogorelov, A. V., 89j:73084**
Tonon, M. L. *see* **Bonadies, M., 89k:73056**

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Buchanan, J. L. (*with* Gilbert, Robert P.) Hypermembrane shells. (*see* **89g:58004**)
Gilbert, Robert P. *see* **Buchanan, J. L.**, (**89g:58004**)
Giorkhelidze, D. Sh. *see* **Valishvili, N. V.; et al.**, (**89j:00031**)
Tvalchrelidze, A. K. *see* **Valishvili, N. V.; et al.**, (**89j:00031**)
Valishvili, N. V. (*with* Giorkhelidze, D. Sh.; Tvalchrelidze, A. K.) A numerical study of nonlinear deformation of shells made of composite materials. (Russian) (*see* **89j:00031**)

73L10 Anisotropic shells

Godzula, V. F. (*with* Guz′, A. N.; Shnerenko, K. I.) On problems of the statics of nonshallow anisotropic shells with holes. (Russian) **89i:73064**
Guz′, A. N. *see* **Godzula, V. F.; et al., 89i:73064**
Sansour, C. Verzerrungsmaße einer Schalentheorie mit expliziter Einbeziehung endlicher Rotationen. [Strain measures of a shell theory with explicit inclusion of finite rotations] **89h:73033**
Shnerenko, K. I. *see* **Godzula, V. F.; et al., 89i:73064**

Items with secondary classifications in 73L10

Ambartsumyan, S. A. ★ Теория анизотропных пластин. (Russian) [The theory of anisotropic plates] **89h:73028**
Epifanov, O. V. (*with* Popov, O. N.; Tsionskiĭ, A. Ya.) Justification of the method of eigenforms for solving problems of the hydroelasticity of shells of finite dimensions. **89f:73039**
Popov, O. N. *see* **Epifanov, O. V.; et al., 89f:73039**
Tsionskiĭ, A. Ya. *see* **Epifanov, O. V.; et al., 89f:73039**

73L15 Shell dynamics

Gospodinov, G. (*with* Yanachkov, O.) On the solution of a problem of the optimal form of a membrane shell by the boundary element method. (Bulgarian. English and Russian summaries) **89f:73063**
Kononenko, N. I. Numerical integration of a system of differential equations of the bending of a toroidal shell. (Russian) (*see* **89f:00011**)
Song, Wei Ping The Newton-spline function method in the nonlinear theory of rotating thin shells. (Chinese) (Not in MR)
Vinogradov, Yu. I. Computational methods and the construction of algorithms for the solution of boundary value problems of structural mechanics. **89g:73039**
Yanachkov, O. *see* **Gospodinov, G., 89f:73063**

Items with secondary classifications in 73L15

Andrianov, I. V. (*with* Sedin, W.) Composition of simplified equations of nonlinear dynamics of plates and shallow shells on the basis of homogenisation method. (Not in MR)
Filippovich, A. P. Analysis of mixed schemes of the finite element method in problems on the deformation of shallow shells. (Russian) **89f:65121**
Gaete, Sergio (*with* Manasevich, Raul F.) Existence of a pair of periodic solutions of an O.D.E. generalizing a problem in nonlinear elasticity, via variational methods. **89k:34059**
Gavrilenko, V. V. *see* **Kubenko, V. D., 89f:73040**
Kubenko, V. D. (*with* Gavrilenko, V. V.) An axisymmetric problem of the penetration of thin elastic spherical shells into a compressible fluid. **89f:73040**
Manasevich, Raul F. *see* **Gaete, Sergio, 89k:34059**
Sedin, W. *see* **Andrianov, I. V.**, (Not in MR)
Srubshchik, L. S. (*with* Yudovich, V. I.) On the dynamic snap-through of a nonlinear elastic system. **89h:73026**
Yudovich, V. I. *see* **Srubshchik, L. S., 89h:73026**

73L20 Vibrations of shells

Amiro, I. Ya. (*with* Zarutskiĭ, V. A.; Revutskiĭ, V. N.; Skosarenko, Yu. V.; Telalov, A. I.; Fialko, S. Yu.) ★ Колебания ребристых оболочек вращения. (Russian) [Vibrations of ribbed shells of revolution] **89h:73034**
Fialko, S. Yu. *see* **Amiro, I. Ya.; et al., 89h:73034**
Ji, Zhen Yi *see* **Ye, Kai Yuan, 89k:73057**
Koga, Tatsuzo (*with* Saito, Arihumi) Inextensional free vibrations of circular cylindrical shells. **89j:73085**
Kustovskiĭ, V. D. (*with* Shikhvatov, A. M.) A coordinate system for cupola-shaped shells. (Russian) **89g:73040**
Revutskiĭ, V. N. *see* **Amiro, I. Ya.; et al., 89h:73034**
Saito, Arihumi *see* **Koga, Tatsuzo, 89j:73085**
Shikhvatov, A. M. *see* **Kustovskiĭ, V. D., 89g:73040**
Skosarenko, Yu. V. *see* **Amiro, I. Ya.; et al., 89h:73034**
Telalov, A. I. *see* **Amiro, I. Ya.; et al., 89h:73034**
Ye, Kai Yuan (*with* Ji, Zhen Yi) Free vibration of nonlinear deformation ring- and stringer-stiffened nonuniform cylindrical shell. **89k:73057**
Zarutskiĭ, V. A. *see* **Amiro, I. Ya.; et al., 89h:73034**

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Andreou, Elias (*with* Dassios, George; Polyzos, Demosthenes) Korn's constant for a spherical shell. **89j:73014**
Chueshov, I. D. Construction of solutions of a stochastic modified system of von Kármán equations. (Russian) **89h:35282**
Dassios, George *see* **Andreou, Elias; et al., 89j:73014**
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Krasnopol′skaya, T. S. (*with* Lavrov, K. A.) Nonlinear oscillations of a cylindrical shell with a fluid under limited excitation. **89k:73038**
Lavrov, K. A. *see* **Krasnopol′skaya, T. S., 89k:73038**
Misra, J. C. (*with* Roy, S.) Free and forced vibrations of the cranial vault: study of a mathematical model. **89h:92030**
Polyzos, Demosthenes *see* **Andreou, Elias; et al., 89j:73014**
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Rogacheva, N. N. Influence of fluid viscosity and pressure on shell vibrations in a fluid. **89j:73060**
Roy, S. *see* **Misra, J. C., 89h:92030**
Spiridigliozzi, Luciano *see* **Tessler, Alexander, 89c:73063**
Tessler, Alexander (*with* Spiridigliozzi, Luciano) Some issues of numerical integration and penalty relaxation in anisoparametric shell element formulation. **89c:73063**
Tsionskiĭ, A. Ya. *see* **Epifanov, O. V.; et al., 89f:73039**

73L99 None of the above, but in this section

Bogomol′nyĭ, V. M. The solution of boundary value problems of the theory of shells with an unknown boundary. **89c:73068**
Buchanan, J. L. (*with* Gilbert, Robert P.) Hypermembrane shells. (*see* **89g:58004**)
Chechel′, I. I. *see* **Klabukova, L. S., 89g:73041**

Chudinovich, I. Yu. Averaging of cylindrical shells weakened by a large number of holes. (Russian) **89c:73069**

Dzhaiani, G. V. Linear elliptic equations with degenerate order, and prismatic shells with a cusp. (Russian) (*see* **89j:00030**)

Gilbert, Robert P. *see* **Buchanan, J. L.**, (**89g:58004**)

Grigorenko, Ya. M. (*with* Kryukov, N. N.) ★ Численное решение задач статики гибких слоистых оболочек с переменными параметрами. (Russian) [Numerical solution of problems of the statics of flexible layered shells with variable parameters] **89j:73086**

Hu, Hai Chang *see* **Su, Xian Yue; et al.**, **89b:73032**

Karchevskiĭ, M. M. *see* **Voloshanovskaya, S. N.**, (Not in MR)

Khludnev, A. M. On a variational inequality for a shallow shell operator with a constraint on the boundary. **89f:73064**

Klabukova, L. S. (*with* Chechel′, I. I.) A variational-difference method for solving boundary value problems of the theory of shells of I. N. Vekua's moment theory. (Russian) **89g:73041**

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Maslovskaya, L. V. Convergence of a semimixed finite element method for fundamental boundary value problems of the theory of shallow shells in weighted Sobolev spaces. **89h:73035**

Meunargiya, T. V. ★ Развитие метода И. Н. Векуа для задач трехмерной моментной теории упругости. (Russian) [The development of I. N. Vekua's method for problems in the three-dimensional moment theory of elasticity] **89k:73058**

Pastrone, Franco Existence and nonuniqueness of static solutions for cylindrical elastic shells in tension. (Italian) **89e:73035**

Su, Xian Yue (*with* Wu, Ji Ke; Hu, Hai Chang) Large-displacement analysis of thin shells of revolution. **89b:73032**

Voloshanovskaya, S. N. (*with* Karchevskiĭ, M. M.) A difference scheme for the mixed boundary value problem of strong bending of shallow shells.

Wu, Ji Ke *see* **Su, Xian Yue; et al.**, **89b:73032**

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Badalov, F. B. (*with* Khashimov, Zh.) ★ Решение неоднородных и нелинейных краевых задач теории пластин и оболочек методом сведения к задачам Коши. (Russian) [Solution of nonhomogeneous and nonlinear boundary value problems in the theory of plates and shells by the method of reduction to Cauchy problems] **89k:73044**

Baginski, Frank E. Axisymmetric and nonaxisymmetric buckled states of a shallow spherical cap. **89j:73054**

Bernadou, Michel (*with* Trouvé, Pascal) Pseudo-conforming finite element approximation of linear thin shell problems. (*see* **89c:65004**)

Gabysheva, L. N. (*with* Kanibolot·skiĭ, M. A.) Optimization of the mass of a layered spherical shell made up of a finite collection of materials. (Russian) **89h:49020**

Givoli, Dan Nonlocal and semilocal optimal weighting functions for symmetric problems involving a small parameter. **89c:73003**

Kanibolot·skiĭ, M. A. *see* **Gabysheva, L. N.**, **89h:49020**

Khashimov, Zh. *see* **Badalov, F. B.**, **89k:73044**

Lovíšek, J. Optimal control of variational inequality with applications to axisymmetric shells. (Russian and Slovak summaries) **89b:49011**

Mol′chenko, L. V. Mathematical foundations of nonlinear magnetoelasticity in the theory of shells. (Russian) **89k:73061**

Nedoma, Josef^2 Static calculation of shells by the finite-element method. (Czech) **89h:73029**

Peng, Xiao Lin Application of generalized function theory on the complete solutions of plates and shells. **89g:73031**

Trouvé, Pascal *see* **Bernadou, Michel**, (**89c:65004**)

Vashakmadze, T. S. On the problem of constructing the mathematical theory of plates and shells. (*see* **89g:58004**)

Zheng, Xiao Jing (*with* Zhou, You He) On exact solution of Kármán's equations of rigid clamped circular plate and shallow spherical shell under a concentrated load. **89f:73048**

Zhou, You He *see* **Zheng, Xiao Jing**, **89f:73048**

73Mxx Fractural mechanics

73M05 Brittle fracture, cracks

Abeyaratne, Rohan (*with* Yang, Jae-Sung) Localized shear discontinuities near the tip of a mode I crack. **89b:73033**

Atkinson, Colin *see* **Bastero, C.**, **89i:73065**

Bastero, C. (*with* Atkinson, Colin) Incipient yielding at a debond crack tip under mixed mode loading. **89i:73065**

Bolotin, V. V. The theory of statistical sets of fatigue cracks with an application to reliability and resource prediction. (Russian) (*see* **89j:73002**)

Bonnet, M. (*with* Bui, H. D.) Regular B.I.E. for three-dimensional cracks in elastodynamics. (*see* **89b:65009**)

Borodachev, N. M. The stress state near the curved front of a semi-infinite crack in an elastic body. **89f:73065**

Bui, H. D. *see* **Bonnet, M.**, (**89b:65009**)

Bykovtsev, A. S. (*with* Kramarovskiĭ, D. B.) The propagation of a complex fracture area. The exact three-dimensional solution. **89c:73070**

Chakrabarti, Aloknath Approximate solution of an integral equation of interface crack. **89j:73087**

Cherepanov, A. G. (*with* Cherepanov, G. P.) Fractural mechanics of coverings and films. **89h:73036**

Cherepanov, G. P. *see* **Cherepanov, A. G.**, **89h:73036**

Coussy, Olivier Un modèle de viscoélasticité confinée en mécanique de la rupture. Propagation subcritique. (English summary) [A small-scale viscoelastic model in fracture mechanics. Subcritical growth] **89j:73088**

Destuynder, Philippe Une approche du contrôle de la propagation des fissures en dynamique des structures. (English summary) [An approach to crack propagation control in structural dynamics] **89k:73059**

Durban, D. *see* **Fleck, N. A.**, (Not in MR)

Ellyin, F. (*with* Fakinlede, C. O. A.) Nonlinear dislocation model of the work-hardening crack-tip field. (French summary) **89a:73053**

Fakinlede, C. O. A. *see* **Ellyin, F.**, **89a:73053**

Fleck, N. A. (*with* Durban, D.) Asymptotic fields at tip of conical notches and inclusions in a power hardening solid. (Not in MR)

Golovchan, V. T. A variant of a statistical theory of brittle fracture. (Russian) (Not in MR)

Goodsell, G. *see* **Whiteman, J. R.**, **89d:73046**

Guz′, A. N. Theory of long-duration fracture of composite materials under compression. **89j:73089**

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Huang, Xiao Jun The problem of stress distribution in bonded dissimilar materials with cracks along a circular interface. (Chinese. English summary) **89i:73066**

Ito, H. M. (*with* Kotani, Shinichi; Yokota, T.) Size distribution of fractured areas in one-dimensional systems. **89h:73037**

Kotani, Shinichi *see* **Ito, H. M.; et al.**, **89h:73037**

Kramarovskiĭ, D. B. *see* **Bykovtsev, A. S.**, **89c:73070**

Kravvaritis, D. *see* **Ladopoulos, E. G.; et al.**, **89f:73066**

Kudish, I. I. The contact problem of elasticity theory for bodies with cracks. **89b:73034**

Ladopoulos, E. G. On the numerical solution of the finite-part singular integral equations of the first and the second kind used in fracture mechanics. **89c:73071**

— (*with* Zisis, V. A.; Kravvaritis, D.) Singular integral equations in Hilbert space applied to crack problems. **89f:73066**

Li, Fang Zhong (*with* Needleman, A.; Shih, C. F.) Creep crack growth by grain boundary cavitation: crack tip fields and crack growth rates under transient conditions. (French summary) **89j:73090**

Lu, Jian Ke The mathematical problems of compound materials with cracks in plane elasticity. **89a:73054**

Maksimenko, V. N. The effect of reinforcing elements on the development of cracks near a hole in a plate. **89k:73060**

Martirosyan, A. N. Movement of a crack in an anisotropic medium. (Russian. Armenian summary) **89c:73072**

Matysiak, S. J. (*with* Paszt, Andrzej) On interaction between a crack and rigid inclusions in an elastic space. (Russian summary) **89c:73073**

Michopoulos, J. Directional instability of crack propagation with energy dissipation. **89j:73091**

— *see also* **Theocaris, P. S.**, **89h:73039**

Morozov, N. F. (*with* Paukshto, M. V.) Crack dynamics in a discrete formulation. (Russian. English summary) **89a:73055**

Needleman, A. *see* **Li, Fang Zhong; et al.**, **89j:73090**

Nemat-Nasser, S. *see* **Hori, Muneo**, **89d:73042**

Pandey, S. S. *see* **Trivedi, T. N.**, **89i:73067**

Paszt, Andrzej *see* **Matysiak, S. J.**, **89c:73073**

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Sadykhov, V. È. On the problem of failure of two-layer media with one layer ruptured by a shear crack. **89f:73067**

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Stoyan, D. Modelling a one-dimensional fracture process in thin coatings. (German and Russian summaries) **89d:73044**

Theocaris, P. S. (*with* Tsamasphyros, G.) On the complex path-independent integrals used in plane elasticity problems. (Greek summary) **89m:73029**

— (*with* Michopoulos, J.) The dynamic fracture problem—a deterministic and stochastic approach. **89h:73039**

Trivedi, T. N. (*with* Pandey, S. S.) Certain dual integral equations with an application in the theory of elasticity. **89i:73067**

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Wang, Zi Qiang Plane strain problem of growing crack for a perfectly plastic solid. **89d:73045**

Whiteman, J. R. (*with* Goodsell, G.) On some finite element error estimates for stress intensity factors in mode I linear elastic fracture problems. **89d:73046**

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Yokota, T. *see* **Ito, H. M.; et al.**, **89h:73037**

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Zisis, V. A. *see* **Ladopoulos, E. G.; et al.**, **89f:73066**

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Antipov, Yu. A. (*with* Popov, G. Ya.; Yatsko, S. I.) Solution of the problem of stress concentration around intersecting defects by using the Riemann problem with an infinite index. **89h:73015**

Chen, Bao Xing (*with* Zhang, Xiang Zhou) Thermoelasticity problem of an orthotropic plate with two collinear cracks. **89i:73072**

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Golden, J. M. (*with* Graham, G. A. C.) ★ Boundary value problems in linear viscoelasticity. **89i:73035**

Graham, G. A. C. *see* **Golden, J. M.**, **89i:73035**

Grishin, S. A. *see* **Aleksandrov, Viktor Mikhaĭlovich**, **89j:73019**

Gudmundson, Peter *see* **Zang, Weilin**, **89i:73010**

Hara, Hiroaki (*with* Okayama, Seiji) Fractal dimension and scaling behavior of cracks in a random medium: "frequency-rank" distribution described by generalized random walks. **89f:82041**

Hsiao, G. C. Boundary element methods for exterior problems in elasticity and fluid mechanics. (*see* **89c:65004**)

Katz, I. Norman *see* **Ying, Xingren**, **89g:73034**

Leguillon, D. (*with* Sánchez-Palencia, Enrique) Singularities in elliptic nonsmooth problems. Applications to elasticity. **89b:73014**

Liu, Shi Qiang On problems of elastic half-planes with periodic cracks. (Chinese. English summary) **89i:73015**

— The fundamental problem for a long elastic strip with periodic cracks. (Chinese) **89k:73013**

Maz′ya, V. G. (*with* Nazarov, S. A.) Asymptotic behavior of energy integrals under small perturbations of the boundary near corner and conic points. **89a:35034**

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Nazarov, S. A. *see* **Maz′ya, V. G.**, **89a:35034**

Okayama, Seiji *see* **Hara, Hiroaki**, **89f:82041**

Pandey, S. S. *see* **Trivedi, T. N.**, **89k:73015**

Popov, G. Ya. *see* **Antipov, Yu. A.; et al.**, **89h:73015**

Sánchez-Palencia, Enrique *see* **Leguillon, D.**, **89b:73014**

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Telega, Józef Joachim Variational methods in contact problems of mechanics. (Russian. English summary) **89i:73071**

Thompson, G. M. *see* **Whiteman, J. R.**, **89e:73006**

Ting, T. C. T. The critical angle of the anisotropic elastic wedge subject to uniform tractions. **89h:73014**

Trivedi, T. N. (*with* Pandey, S. S.) The solution of some dual equations with an application to a problem of elasticity. **89k:73015**

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Whiteman, J. R. (*with* Thompson, G. M.) Finite element calculation of a path integral for nonlinear fracture. **89e:73006**

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Ying, Xingren (*with* Katz, I. Norman) Computation of eigenvalues and eigenfunctions for the stress singularity in a composite wedge. **89g:73034**

Zang, Weilin (*with* Gudmundson, Peter) A boundary integral method for internal piecewise smooth crack problems. (French summary) **89i:73010**

Zhang, Xiang Zhou *see* **Chen, Bao Xing**, **89i:73072**

73M10 Fatigue

Aubry, Denis *see* **Guennouni, Tajeddine**, **89j:73092**

Furuta, Hitoshi *see* **Shiraishi, Naruhito; et al.**, **89d:73047**

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73M15 Ductile fracture

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73M20 Material instability

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73N10 Earthquake problems

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73Pxx Biomechanics of solids

73P05 Mathematical models of biological materials

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73Q05 Soil mechanics

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73R05 Electromagnetic elasticity

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Ani, Wafa (*with* Maugin, Gérard A.) One-dimensional nonlinear motions in electroelastic solids: characteristics and shock waves. **89d:73048**

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van Lieshout, P. H. (*with* Rongen, P. M. J.; van de Ven, A. A. F.) A variational approach to magneto-elastic buckling problems for systems of ferromagnetic or superconducting beams. **89e:73037**

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73Sxx Micromechanics of solids

73S05 Dislocation theory

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73T05 Contact problems

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Pleshchinskiĭ, N. B. ★ Приложения теории интегральных уравнений с логарифмическими и степенными ядрами. (Russian) [Applications of the theory of integral equations with logarithmic and power kernels] **89a:45009**

Rabier, P. J. (*with* Oden, J. T.) Solution to Signorini-like contact problems through interface models. I. Preliminaries and formulation of a variational equality. **89d:49006**

— (*with* Oden, J. T.) Solution to Signorini-like contact problems through interface models. II. Existence and uniqueness theorems. **89d:49007a**

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Rodrigues, José-Francisco A unilateral thermoelastic Stefan-type problem. **89i:73074**

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73U05 Thermomechanics of solids [see also 73B30]

Amendola, G. A particular solution of the thermoelasticity of incompressible solids. (Italian. English summary) **89e:73040**

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Anwar, Mohamed Naim Yehia (*with* Sherief, H. H.) Boundary integral equation formulation of generalized thermoelasticity in a Laplace-transform domain. **89a:73060**

Burchuladze, T. V. Dynamic problems in the nonclassical theory of thermoelasticity that are solvable in closed form. (Russian) **89b:73037**

Carbonaro, Bruno (*with* Ignaczak, Józef) Some theorems in temperature-rate-dependent thermoelasticity for unbounded domains. **89g:73044**

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Chen, Bao Xing (*with* Zhang, Xiang Zhou) Thermoelasticity problem of an orthotropic plate with two collinear cracks. **89i:73072**

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Cioranescu, Doïna (*with* Saint Jean Paulin, Jeannine) Global behaviour of very thin cellular structures. Applications to networks. (*see* **89g:58004**)

Crăciun, Ion A. Fundamental solutions in micropolar thermoelasticity. (French summary) **89f:73075**

— Reciprocity theorem in the linear thermoelasticity theory of the solids with microstructure having a symmetric stress tensor. (French summary) **89f:73076**

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Kostopoulos, Vassilis *see* **Dassios, George, 89c:73090**

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Rodrigues, José-Francisco A unilateral thermoelastic Stefan-type problem. **89i:73074**

Rusu, Gheorghe On existence and uniqueness in thermoelasticity of materials with voids. (Russian summary) **89k:73063**

Saint Jean Paulin, Jeannine *see* **Cioranescu, Doïna, (89g:58004)**

Scott, N. H. *see* **Fu, Y. B., 89c:73092**

Serdyuk, G. N. *see* **Vorob′ev, V. L.; et al., (89c:00012)**

Sherief, H. H. *see* **Anwar, Mohamed Naim Yehia, 89a:73060**

Suchevan, V. G. *see* **Lenyuk, M. P.; et al., 89b:73039**

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— Two-dimensional fields of thermoelasticity with relaxation times. (Russian summary) **89b:73041**

— Uflyand-Mindlin's plate equations in thermoelasticity with one relaxation time. (Russian summary) **89b:73042**

Zhang, Xiang Zhou *see* **Chen, Bao Xing, 89i:73072**

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Day, W. A. Thermodynamic efficiency and frequency spectra. **89k:80003**

Engelbrecht, Jüri On the finite velocity of wave motion modelled by nonlinear evolution equations. (*see* **89j:35007**)

Gawinecki, Jerzy Existence, uniqueness and regularity of the first boundary-initial value problem for hyperbolic equations system of the thermal stresses theory for temperature-rate-dependent solids. (Russian summary) **89k:35153**

— The Cauchy problem for the linear hyperbolic equations system of the theory of thermoelasticity of the temperature-rate-dependent solids. (Russian summary) **89k:35154**

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— *see also* **Hung Do Duc; et al., (89j:31001)**

Grioli, Giuseppe A uniqueness theorem in linear elastodynamics. (Italian) **89j:73013**

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Ieşan, D. Initially stressed thermoelastic dielectrics. **89j:73094**

Khoroshun, L. P. On the foundations of the thermomechanics of porous saturated media. **89i:73012**

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Kolyano, Yu. M. *see* **Verba, I. I., 89f:73011**

Lal, Mange (*with* Narain, Kuldeep) Thermoelastic Boussinesq problem of an elastic half space. **89i:73016**

Leonov, K. Ya. An initial-boundary value problem for a system of equations in magnetothermoelasticity. (Russian. English and Azerbaijani summaries) **89g:35101**

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Vasin, V. V. On a justification for the projection-grid method and for the numerical procedures for stationary problems in thermoelasticity. (Russian) **89m:73004**

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Zheng, Song Mu Global smooth solutions to the Cauchy problem of nonlinear thermoelastic equations with dissipation. **89d:35176**

76–XX Fluid mechanics {For general continuum mechanics, see 73Bxx, or other parts of 73–XX.}

76–00 Handbooks, dictionaries, and other reference works

Items with secondary classifications in 76–00

Moon, P. (*with* Spencer, Domina Eberle) ★ Field theory handbook. **89i:00026**

Spencer, Domina Eberle *see* **Moon, P., 89i:00026**

76–01 Elementary exposition; textbooks

Items with secondary classifications in 76–01

(Germain, P.) *see* **Obala, J., 89i:00013**

Jones, D. S. ★ Acoustic and electromagnetic waves. **89h:76032**

Landau, L. D. (*with* Lifshits, E. M.) ★ Course of theoretical physics. Vol. 6. **89i:00006**

Lifshits, E. M. *see* **Landau, L. D., 89i:00006**

Obala, J. ★ Exercices et problèmes de mécanique des milieux continus. (French) [Exercises and problems in the mechanics of continuous media] **89i:00013**

Pichler, Helmut ★ Dynamik der Atmosphäre. (German) [Dynamics of the atmosphere] **89a:86011**

(Reid, W. H.) *see* **Landau, L. D., 89i:00006**

(Sykes, J. B.) *see* **Landau, L. D., 89i:00006**

76–02 Advanced exposition (research surveys, monographs, etc.)

Bhattacharjee, Jayanta K. ★ Convection and chaos in fluids. **89c:76001**

Craik, A. D. D. ★ Wave interactions and fluid flows. **89j:76001**

Feder, Jens ★ Fractals. **89i:76001**

Kulikovskiĭ, A. G. Strong discontinuities in flows of continua and their structure. (Russian) **89k:76001**

(Mandelbrot, B. B.) *see* **Feder, Jens, 89i:76001**

Veverka, Vladimír ★ Matematické modely destilačních a absorpčních procesů. (Czech) [Mathematical models of distillation and absorption processes] **89c:76002**

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Antontsev, S. N. ★ Локализация решений вырождающихся уравнений механики сплошной среды. (Russian) [Localization of solutions of degenerate equations of continuum mechanics] **89h:35259**

Canuto, Claudio (*with* Hussaini, M. Y.; Quarteroni, A.; Zang, T. A.) ★ Spectral methods in fluid dynamics. **89m:76004**

Glimm, James The interaction of nonlinear hyperbolic waves: a conference report. **89h:35198a**

— The interaction of nonlinear hyperbolic waves. **89h:35198b**

Hussaini, M. Y. *see* **Canuto, Claudio; et al., 89m:76004**

Molotkov, I. A. (*with* Vakulenko, S. A.) ★ Сосредоточенные нелинейные волны. (Russian) [Concentrated nonlinear waves] **89j:35004**

Quarteroni, A. *see* **Canuto, Claudio; et al., 89m:76004**

Sewell, M. J. ★ Maximum and minimum principles. **89b:49001**

Temam, Roger ★ Infinite-dimensional dynamical systems in mechanics and physics. **89m:58056**

Vakulenko, S. A. *see* **Molotkov, I. A., 89j:35004**

Woods, L. C. ★ Principles of magnetoplasma dynamics. **89i:76099**

Zang, T. A. *see* **Canuto, Claudio; et al., 89m:76004**

76–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 76–03

Kirsanov, V. S. On the history of the origin of I. Newton's *Principia*. (Russian. English summary) **89a:01021**

(Newton, Isaac) *see* **Kirsanov, V. S., 89a:01021**

Turkel, Eli Algorithms for the Euler and Navier-Stokes equations for supercomputers. **89a:65140**

76–04 Explicit machine computation and programs (not the theory of computation or programming)

Akylas, T. R. (*with* Toplosky, N.) Nonlinear stability of rotating pipe flow. (*see* **89f:76002**)

runeau, Charles-Henri (*with* Jouron, Claude) Un nouveau schéma décentré pour le problème de la cavité entraînée. (English summary) [A new upwind scheme for the driven cavity flow] **89f:76001**

emay, Y. *see* **Laure, P., 89i:76002**

ugazza, M. (*with* Natale, L.) Simulation of coupled and uncoupled phenomena in floating breakwater models. (*see* **89g:76003b**)

ouron, Claude *see* **Bruneau, Charles-Henri, 89f:76001**

aure, P. (*with* Demay, Y.) Symbolic computation and equation on the center manifold: application to the Couette-Taylor problem. **89i:76002**

atale, L. *see* **Fugazza, M.**, (**89g:76003b**)

ychkov, A. D. ★ Математическое моделирование газодинамических процессов в каналах и соплах. (Russian) [Mathematical modeling of gas-dynamic processes in channels and nozzles] **89h:76001**

oplosky, N. *see* **Akylas, T. R.**, (**89f:76002**)

illiams, Anthony D. The development of an intelligent interface to a computational fluid dynamics flow-solver code. **89g:76001**

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aker, P. C. (*with* Poots, G.; Rodgers, G. G.) Ice accretion on cables of various cross sections. **89k:76041**

(**Barthet, H.**) *see* **Computer methods and water resources, 89g:76003b**

eloshapkin, V. V. (*with* Chernikov, Aleksandr Antonovich; Sagdeev, R. Z.; Zaslavskiĭ, G. M.) Structures and 2D fluid flow symmetry. **89i:76035**

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radshaw, Peter *see* **Cebeci, Tuncer, 89i:76086a**

raga, W. Secondary flows on low aspect ratio rotating cavities. **89e:76080**

(**Brebbia, Carlos Alberto**) *see* **Computer methods and water resources, 89g:76003a; 89g:76003b; 89g:76003c; 89g:76003d; Computational methods in water resources, 89m:76002** *and* **89m:76003**

Cebeci, Tuncer (*with* Bradshaw, Peter) ★ Physical and computational aspects of convective heat transfer. **89i:76086a**

— ★ Solutions manual and computer programs for *Physical and computational aspects of convective heat transfer.* **89i:76086b**

(**Celia, M. A.**) *see* **Computational methods in water resources, 89m:76002** *and* **89m:76003**

Chan, Derek Y. C. (*with* Hughes, Barry D.; Paterson, Lincoln; Sirakoff, Christina) Simulating flow in porous media. **89h:76036**

Chernikov, Aleksandr Antonovich *see* **Beloshapkin, V. V.; et al., 89i:76035**

Comte, Pierre *see* **Lesieur, Marcel; et al.**, (Not in MR)

D′yachenko, A. I. (*with* Rubenchik, A. M.; Sagdeev, R. Z.; Shvets, V. F.; Zakharov, V. E.) Computer simulation of the Langmuir collapse of the isolated cavity. **89j:76091**

Fayers, F. J. An introduction to some of the mathematical and physical problems of modelling oil displacement in porous media. (*see* **89j:76003**)

(**Ferrand, L. A.**) *see* **Computational methods in water resources, 89m:76002** *and* **89m:76003**

Fogelson, Aaron L. (*with* Peskin, Charles S.) A fast numerical method for solving the three-dimensional Stokes equations in the presence of suspended particles. **89h:76004**

Goldhirsch, I. (*with* Pelz, Richard B.; Orszag, Steven A.) Numerical simulation of thermal convection in a two-dimensional finite box. **89k:76049**

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Greenspan, Donald Mechanisms of capillarity via supercomputer simulation. **89f:76030**

Hamakiotes, Costas C. (*with* Berger, Stanley A.) Period tripling in periodic flows through curved pipes. **89k:76057**

Hase, Kenji *see* **Ito, Tadaya; et al., 89k:76032**

Hatori, Tadatsugu (*with* Montgomery, David) Transport coefficients for magnetohydrodynamic cellular automata. **89d:76033**

Hayase, Toshiyuki *see* **Ito, Tadaya; et al., 89k:76032**

Hughes, Barry D. *see* **Chan, Derek Y. C.; et al., 89h:76036**

Ito, Tadaya (*with* Suematsu, Yoshikazu; Hase, Kenji; Hayase, Toshiyuki) Distribution patterns of eigenvalues of laminar pipe flow (classification of modes based on dynamics of the system). **89k:76032**

Kachoyan, B. J. The finite Dean problem: nonlinear theory. **89k:76058**

(**de Kosinsky, V.**) *see* **Computer methods and water resources, 89g:76003c**

Krist, S. E. *see* **Nosenchuck, D. M.; et al., 89k:76007**

Kulikov, S. V. (*with* Solov′eva, M. E.) Efficiency of statistical modeling of a shock wave in a gas mixture. (Russian) **89j:76065**

Lasheras, J. C. *see* **Meiburg, E.**, (Not in MR)

Leonard, A. (*with* Reynolds, W. C.) Turbulence research by numerical simulation. (*see* **89j:76005**)

Le Roy, Pascal *see* **Lesieur, Marcel; et al.**, (Not in MR)

Lesieur, Marcel (*with* Staquet, Chantal; Le Roy, Pascal; Comte, Pierre) The mixing layer and its coherence examined from the point of view of two-dimensional turbulence. (Not in MR)

Liggett, James A. Free surface flow—exposing the hidden nonlinearity. **89d:65105**

Limarchenko, O. S. Application of direct methods to the investigation of applied problems of the nonlinear dynamics of bodies that are partially filled by a fluid. (Russian) **89h:76012**

Meiburg, E. (*with* Lasheras, J. C.) Experimental and numerical investigation of the three-dimensional transition in plane wakes. (Not in MR)

Montgomery, David *see* **Hatori, Tadatsugu, 89d:76033**

Newell, A. C. (*with* Rand, D. A.; Russell, David) Turbulent dissipation rates and the random occurrence of coherent events. **89i:76060**

Nosenchuck, D. M. (*with* Krist, S. E.; Zang, T. A.) On multigrid methods for the Navier-Stokes computer. **89k:76007**

Orszag, Steven A. *see* **Goldhirsch, I.; et al., 89k:76049**

(**Ouazar, D.**) *see* **Computer methods and water resources, 89g:76003a; 89g:76003b; 89g:76003c** *and* **89g:76003d**

Paterson, Lincoln *see* **Chan, Derek Y. C.; et al., 89h:76036**

Pelz, Richard B. *see* **Goldhirsch, I.; et al., 89k:76049**

Peskin, Charles S. *see* **Fogelson, Aaron L., 89h:76004**

(**Pinder, G. F.**) *see* **Computational methods in water resources, 89m:76002** *and* **89m:76003**

Poots, G. *see* **Baker, P. C.; et al., 89k:76041** *and* **Skelton, P. L. I., 89k:76042**

Rand, D. A. *see* **Newell, A. C.; et al., 89i:76060**

Reynolds, W. C. *see* **Leonard, A.**, (**89j:76005**)

Rodgers, G. G. *see* **Baker, P. C.; et al., 89k:76041**

Rubenchik, A. M. *see* **D′yachenko, A. I.; et al., 89j:76091**

Russell, David *see* **Newell, A. C.; et al., 89i:76060**

Sagdeev, R. Z. *see* **Beloshapkin, V. V.; et al., 89i:76035** *and* **D′yachenko, A. I.; et al., 89j:76091**

She, Z.-S. *see* **Yakhot, Victor, 89d:35173**

Shvets, V. F. *see* **D′yachenko, A. I.; et al., 89j:76091**

Sirakoff, Christina *see* **Chan, Derek Y. C.; et al., 89h:76036**

Skelton, P. L. I. (*with* Poots, G.) Approximate predictions of ice accretion on an overhead transmission line which rotates with constant angular velocity. **89k:76042**

Solov′eva, M. E. *see* **Kulikov, S. V., 89j:76065**

Staquet, Chantal *see* **Lesieur, Marcel; et al.**, (Not in MR)

Suematsu, Yoshikazu *see* **Ito, Tadaya; et al., 89k:76032**

Yakhot, Victor (*with* She, Z.-S.) Long-time, large-scale properties of the random-force-driven Burgers equation. **89d:35173**

Zakharov, V. E. *see* **D′yachenko, A. I.; et al., 89j:76091**

Zang, T. A. *see* **Nosenchuck, D. M.; et al., 89k:76007**

Zaslavskiĭ, G. M. *see* **Beloshapkin, V. V.; et al., 89i:76035**

Items listed otherwise than by author

Cambridge, MA ★ Computational methods in water resources. Vol. 1. **89m:76002**

— ★ Computational methods in water resources. Vol. 2. **89m:76003**

Computational methods in water resources ★ Computational methods in water resources. Vol. 1. **89m:76002**

— ★ Computational methods in water resources. Vol. 2. **89m:76003**

Computer methods and water resources ★ Computer methods and water resources. Vol. 1. **89g:76003a**

— ★ Computer methods and water resources. Vol. 2. **89g:76003b**

— ★ Computer methods and water resources. Vol. 3. **89g:76003c**

— ★ Computer methods and water resources. Vol. 5. **89g:76003d**

Conference:

Computational Methods in Water Resources ★ Computational methods in water resources. Vol. 1. **89m:76002**

— ★ Computational methods in water resources. Vol. 2. **89m:76003**

Computer Methods and Water Resources ★ Computer methods and water resources. Vol. 1. **89g:76003a**

— ★ Computer methods and water resources. Vol. 2. **89g:76003b**

— ★ Computer methods and water resources. Vol. 3. **89g:76003c**

— ★ Computer methods and water resources. Vol. 5. **89g:76003d**

Rabat ★ Computer methods and water resources. Vol. 1. **89g:76003a**

— ★ Computer methods and water resources. Vol. 2. **89g:76003b**

— ★ Computer methods and water resources. Vol. 3. **89g:76003c**

— ★ Computer methods and water resources. Vol. 5. **89g:76003d**

76–05 Experimental papers

Ballmann, J. *see* **Westenberger, H.**, (**89j:35007**)

Blunden, A. R. *see* **Blunden, W. R.; et al., 89d:76001**

Blunden, W. R. (*with* Gostelow, J. P.; Blunden, A. R.) On the application of queueing theory concepts to boundary layer transition. **89d:76001**

Ferré, J. A. (*with* Giralt, Francesc) Pattern-recognition analysis of the velocity field in plane turbulent wakes. (Not in MR)

— (*with* Giralt, Francesc) Some topological features of the entrainment process in a heated turbulent wake. (Not in MR)

Giralt, Francesc *see* **Ferré, J. A.**, (Not in MR) *and* (Not in MR)

Gostelow, J. P. *see* **Blunden, W. R.; et al., 89d:76001**

Lasheras, J. C. *see* **Meiburg, E.**, (Not in MR)

Meiburg, E. (*with* Lasheras, J. C.) Experimental and numerical investigation of the three-dimensional transition in plane wakes. (Not in MR)

Westenberger, H. (*with* Ballmann, J.) The homogeneous homentropic compression or expansion—a test case for analyzing Sod's operator-splitting. (*see* **89j:35007**)

Items with secondary classifications in 76–05

Bagnoli, F. (*with* Ciliberto, S.; Francescato, A.; Livi, R.; Ruffo, Stefano) Cellular automaton model for a fluid experiment. (*see* **89g:58144**)

Chandler-Wilde, S. N. (*with* Hothersall, D. C.) Integral equations in traffic noise simulation. (*see* **89c:00032**)

Ciliberto, S. *see* **Bagnoli, F.; et al.**, (**89g:58144**)

Dubois, Monique Dynamic of Rayleigh-Benard spatial configurations in confined geometry. **89i:76049**

Francescato, A. *see* **Bagnoli, F.; et al.**, (**89g:58144**)

Hothersall, D. C. *see* **Chandler-Wilde, S. N.**, (**89c:00032**)

Livi, R. *see* **Bagnoli, F.; et al.**, (**89g:58144**)

Pocheau, A. Phase turbulence and mean flow effects in Rayleigh-Bénard convection. (*see* **89f:76003**)

Ruffo, Stefano *see* **Bagnoli, F.; et al.**, (**89g:58144**)

Sommerfeld, Martin Numerical prediction of shock wave focusing phenomena in air with experimental verification. (*see* **89j:35007**)

76–06 Proceedings, conferences, etc.

(**Albinet, G.**) *see* **Propagation in systems far from equilibrium, 89f:76003**

(**Baines, M. J.**) *see* **Numerical methods for fluid dynamics, 89j:76004**

(**Barthet, H.**) *see* **Computer methods and water resources, 89g:76003b**

(**Benney, David J.**) *see* **Applied mathematics, fluid mechanics, astrophysics, 89f:76002**

(**Boccara, N.**) *see* **Propagation in systems far from equilibrium, 89f:76003**

(**Brand, H. R.**) *see* **Propagation in systems far from equilibrium, 89f:76003**

(Brebbia, Carlos Alberto) *see* **Computer methods and water resources, 89g:76003a; 89g:76003b; 89g:76003c; 89g:76003d; Computational methods in water resources, 89m:76002** *and* **89m:76003**
(Celia, M. A.) *see* **Computational methods in water resources, 89m:76002** *and* **89m:76003**
(Chernyi, G. G.) *see* **Mechanics and scientific-technological progress, 89b:76001**
(Coles, Donald) *see* **Perspectives in fluid mechanics, 89j:76005**
(Dvorak, R.) *see* **Long term evolution of planetary systems, 89j:76002**
(Edwards, Sam) *see* **Mathematics in oil production, 89j:76003**
(Ferrand, L. A.) *see* **Computational methods in water resources, 89m:76002** *and* **89m:76003**
(Ferraz-Mello, S.) *see* **Long term evolution of planetary systems, 89j:76002**
(Filimonov, M. Yu.) *see* **Analytic and numerical methods for studying problems in continuum mechanics, 89h:76002**
(Fletcher, C. A. J.) *see* **Computational fluid dynamics, 89c:76003**
(Froeschlé, Claude) *see* **Long term evolution of planetary systems, 89j:76002**
(Galdi, G. P.) *see* **Energy stability and convection, 89c:76004**
(Gaponov-Grekhov, A. V.) *see* **Nonlinear waves, 89b:76002**
(Gray, William G.) *see* **Computational methods in water resources, 89m:76002** *and* **89m:76003**
(Henrard, J.) *see* **Long term evolution of planetary systems, 89j:76002**
(von Humboldt, Alexander) *see* **Long term evolution of planetary systems, 89j:76002**
(King, Peter Robert) *see* **Mathematics in oil production, 89j:76003**
(de Kosinsky, V.) *see* **Computer methods and water resources, 89g:76003c**
(Liepmann, Hans Wolfgang) *see* **Perspectives in fluid mechanics, 89j:76005**
(Lin, Chia Chiao) *see* **Applied mathematics, fluid mechanics, astrophysics, 89f:76002**
(Lumley, John L.) *see* **Annual review of fluid mechanics, 89g:76002**
(Lyubimov, G. A.) *see* **Mechanics and scientific-technological progress, 89b:76001**
(Manneville, Paul) *see* **Propagation in systems far from equilibrium, 89f:76003**
(Morton, K. W.) *see* **Numerical methods for fluid dynamics, 89j:76004**
(Orlov, Yu. F.) *see* **Asymptotic methods. Problems in mechanics, 89m:76001**
(Ouazar, D.) *see* **Computer methods and water resources, 89g:76003a; 89g:76003b; 89g:76003c** *and* **89g:76003d**
(Panchenkov, A. N.) *see* **Asymptotic methods. Problems in mechanics, 89m:76001**
(Pinder, G. F.) *see* **Computational methods in water resources, 89m:76002** *and* **89m:76003**
(Rabinovich, M. I.) *see* **Nonlinear waves, 89b:76002**
(Reed, Helen L.) *see* **Annual review of fluid mechanics, 89g:76002**
(Schubart, J.) *see* **Long term evolution of planetary systems, 89j:76002**
(Sedov, L. I.) *see* **Mechanics and scientific-technological progress, 89b:76001**
(Shu, Frank H.) *see* **Applied mathematics, fluid mechanics, astrophysics, 89f:76002**
(Sidorov, A. F.) *see* **Analytic and numerical methods for studying problems in continuum mechanics, 89h:76002**
(Straughan, B.) *see* **Energy stability and convection, 89c:76004**
(Szebehely, Victor) *see* **Long term evolution of planetary systems, 89j:76002**
(de Vahl Davis, Graham) *see* **Computational fluid dynamics, 89c:76003**
(Van Dyke, Milton) *see* **Annual review of fluid mechanics, 89g:76002**
(Wesfreid, J. E.) *see* **Propagation in systems far from equilibrium, 89f:76003**
(Yuan, Chi) *see* **Applied mathematics, fluid mechanics, astrophysics, 89f:76002**

Items listed otherwise than by author

Analytic and numerical methods for studying problems in continuum mechanics ★ Аналитические и численные методы исследования задач механики сплошной среды. (Russian) [Analytic and numerical methods for studying problems in continuum mechanics] **89h:76002**
Annual review of fluid mechanics ★ Annual review of fluid mechanics. Vol. 21. **89g:76002**
Applied mathematics, fluid mechanics, astrophysics ★ Applied mathematics, fluid mechanics, astrophysics. **89f:76002**
Asymptotic methods. Problems in mechanics ★ Асимптотические методы. Задачи механики. (Russian) [Asymptotic methods. Problems in mechanics] **89m:76001**
Birthday:
  Liepmann, Hans Wolfgang ★ Perspectives in fluid mechanics. **89j:76005**
Cambridge ★ Mathematics in oil production. **89j:76003**
Cambridge, MA ★ Applied mathematics, fluid mechanics, astrophysics. **89f:76002**
— ★ Computational methods in water resources. Vol. 1. **89m:76002**
— ★ Computational methods in water resources. Vol. 2. **89m:76003**
Capri ★ Energy stability and convection. **89c:76004**
Colloquium:
  Celestial Mechanics ★ Long term evolution of planetary systems. **89j:76002**
Computational fluid dynamics ★ Computational fluid dynamics. **89c:76003**
Computational methods in water resources ★ Computational methods in water resources. Vol. 1. **89m:76002**
— ★ Computational methods in water resources. Vol. 2. **89m:76003**
Computer methods and water resources ★ Computer methods and water resources. Vol. 1. **89g:76003a**
— ★ Computer methods and water resources. Vol. 2. **89g:76003b**
— ★ Computer methods and water resources. Vol. 3. **89g:76003c**
— ★ Computer methods and water resources. Vol. 5. **89g:76003d**
Conference:
  Computational Methods in Water Resources ★ Computational methods in water resources. Vol. 1. **89m:76002**
  — ★ Computational methods in water resources. Vol. 2. **89m:76003**
  Computer Methods and Water Resources ★ Computer methods and water resources. Vol. 1. **89g:76003a**
  — ★ Computer methods and water resources. Vol. 2. **89g:76003b**
  — ★ Computer methods and water resources. Vol. 3. **89g:76003c**
  — ★ Computer methods and water resources. Vol. 5. **89g:76003d**
  Mathematics in Oil Production ★ Mathematics in oil production. **89j:76003**
  Numerical Methods for Fluid Dynamics ★ Numerical methods for fluid dynamics. III. **89j:76004**
Energy stability and convection ★ Energy stability and convection. **89c:76004**
Lecture Notes in Physics ★ Perspectives in fluid mechanics. **89j:76005**
Les Houches ★ Propagation in systems far from equilibrium. **89f:76003**
Long term evolution of planetary systems ★ Long term evolution of planetary systems. **89j:76002**
Mathematical analysis of fluid and plasma dynamics ★ Ryutai to purazuma no shogensho no kaiseki. [Mathematical analysis of fluid and plasma dynamics. I] **89g:76004**
Mathematics in oil production ★ Mathematics in oil production. **89j:76003**
Mechanics and scientific-technological progress ★ Механика и научно-технический прогресс. Том 2. (Russian) [Mechanics and scientific-technological progress. Vol. 2] **89b:76001**
Nonlinear waves ★ Нелинейные волны. (Russian) [Nonlinear waves] **89b:76002**
Numerical methods for fluid dynamics ★ Numerical methods for fluid dynamics. III. **89j:76004**
Oxford ★ Numerical methods for fluid dynamics. III. **89j:76004**
Pasadena, CA ★ Perspectives in fluid mechanics. **89j:76005**
Perspectives in fluid mechanics ★ Perspectives in fluid mechanics. **89j:76005**
Propagation in systems far from equilibrium ★ Propagation in systems far from equilibrium. **89f:76003**
Rabat ★ Computer methods and water resources. Vol. 1. **89g:76003a**
— ★ Computer methods and water resources. Vol. 2. **89g:76003b**
— ★ Computer methods and water resources. Vol. 3. **89g:76003c**
— ★ Computer methods and water resources. Vol. 5. **89g:76003d**
Ramsau ★ Long term evolution of planetary systems. **89j:76002**
Singularity and the statistical theory of turbulence ★ Ranryuba no tokoisei to tokei riron. II. (Japanese) [Singularity and the statistical theory of turbulence. II] **89i:76003**
Sydney ★ Computational fluid dynamics. **89c:76003**
Symposium:
  Applied Mathematics, Fluid Mechanics, Astrophysics ★ Applied mathematics, fluid mechanics, astrophysics. **89f:76002**
  Computational Fluid Dynamics ★ Computational fluid dynamics. **89c:76003**
  Mathematical Analysis of Fluid and Plasma Dynamics ★ Ryutai to purazuma no shogensho no kaiseki. [Mathematical analysis of fluid and plasma dynamics. I] **89g:76004**
  Perspectives in Fluid Mechanics ★ Perspectives in fluid mechanics. **89j:76005**
  Singularity of Turbulence and Statistical Theory ★ Ranryuba no tokoisei to tokei riron. II. (Japanese) [Singularity and the statistical theory of turbulence. II] **89i:76003**
Workshop:
  Energy Stability and Convection ★ Energy stability and convection. **89c:76004**
  Propagation in Nonequilibrium Systems ★ Propagation in systems far from equilibrium. **89f:76003**

Items with secondary classifications in 76–06

(Ball, J. M.) *see* **Material instabilities in continuum mechanics, 89f:73005**
(Ballmann, J.) *see* **Nonlinear hyperbolic equations—theory, computation methods, and applications, 89j:35007**
(Besseling, J. F.) *see* **Trends in applications of mathematics to mechanics, 89g:58004**
(Brebbia, Carlos Alberto) *see* **Boundary elements, 89e:00008** *and* **89e:00010**
(Eckhaus, Wiktor) *see* **Trends in applications of mathematics to mechanics, 89g:58004**
(Glowinski, R.) *see* **Symposium: Domain Decomposition Methods for Partial Differential Equations, 89f:65005**
(Golub, Gene H.) *see* **Symposium: Domain Decomposition Methods for Partial Differential Equations, 89f:65005**
(Hackbusch, Wolfgang) *see* **Robust multi-grid methods, 89m:65007**
(Jeltsch, Rolf) *see* **Nonlinear hyperbolic equations—theory, computation methods, and applications, 89j:35007**
(Kuhn, Günther) *see* **Boundary elements, 89e:00008** *and* **89e:00010**
(McCormick, Stephen F.) *see* **Multigrid methods, 89c:65005**
(Meurant, Gérard A.) *see* **Symposium: Domain Decomposition Methods for Partial Differential Equations, 89f:65005**
(Périaux, Jacques) *see* **Symposium: Domain Decomposition Methods for Partial Differential Equations, 89f:65005**
(Wendland, W.) *see* **Boundary elements, 89e:00008** *and* **89e:00010**
(Whiteman, J. R.) *see* **Mathematics of finite elements and applications, 89c:65004**

Items listed otherwise than by author

Aachen ★ Nonlinear hyperbolic equations—theory, computation methods, and applications. **89j:35007**
Boundary elements ★ Boundary elements IX. Vol. 1. **89e:00008**
— ★ Boundary elements IX. Vol. 3. **89e:00010**
Chaos and three-dimensional structure of turbulence ★ Midare no sanjikanka to kaosu. (Japanese) [Chaos and three-dimensional structure of turbulence] **89k:58077**
Conference:
  Boundary Elements ★ Boundary elements IX. Vol. 1. **89e:00008**
  — ★ Boundary elements IX. Vol. 3. **89e:00010**
  Mathematics of Finite Elements and Applications ★ The mathematics of finite elements and applications. VI. **89c:65004**
  Multigrid Methods ★ Multigrid methods. **89c:65005**
  Nonlinear Hyperbolic Problems ★ Nonlinear hyperbolic equations—theory, computation methods, and applications. **89j:35007**
Copper Mountain, CO ★ Multigrid methods. **89c:65005**
Dynamic structure of the solutions of the Navier-Stokes equation ★ Dynamic structure of the solutions of the Navier-Stokes equation. (Japanese) **89b:35001**
Edinburgh ★ Material instabilities in continuum mechanics. **89f:73005**
Kiel ★ Robust multi-grid methods. **89m:65007**
Material instabilities in continuum mechanics ★ Material instabilities in continuum mechanics. **89f:73005**
Mathematics of finite elements and applications ★ The mathematics of finite elements and applications. VI. **89c:65004**
Multigrid methods ★ Multigrid methods. **89c:65005**
Nonlinear hyperbolic equations—theory, computation methods, and applications ★ Nonlinear hyperbolic equations—theory, computation methods, and applications. **89j:35007**

Paris ★ First International Symposium on Domain Decomposition Methods for Partial Differential Equations. **89f:65005**
Robust multi-grid methods ★ Robust multi-grid methods. **89m:65007**
Seminar:
  Robust Multi-Grid Methods ★ Robust multi-grid methods. **89m:65007**
Stuttgart ★ Boundary elements IX. Vol. 1. **89e:00008**
— ★ Boundary elements IX. Vol. 3. **89e:00010**
Symposium:
  Chaos and Three-Dimensional Structure of Turbulence ★ Midare no sanjikanka to kaosu. (Japanese) [Chaos and three-dimensional structure of turbulence] **89k:58077**
  Domain Decomposition Methods for Partial Differential Equations ★ First International Symposium on Domain Decomposition Methods for Partial Differential Equations. **89f:65005**
  Dynamic Structure of the Solutions of the Navier-Stokes Equation ★ Dynamic structure of the solutions of the Navier-Stokes equation. (Japanese) **89b:35001**
  Material Instabilities in Continuum Mechanics ★ Material instabilities in continuum mechanics. **89f:73005**
  Trends in Applications of Mathematics to Mechanics ★ Trends in applications of mathematics to mechanics. **89g:58004**
Trends in applications of mathematics to mechanics ★ Trends in applications of mathematics to mechanics. **89g:58004**
Uxbridge ★ The mathematics of finite elements and applications. VI. **89c:65004**
Wassenaar ★ Trends in applications of mathematics to mechanics. **89g:58004**

76–08 Computational methods

Al-Sadah, Fayez S. H. (*with* Khaliq, A. Q. M.; Bashir, M.) Finite difference analysis for Navier-Stokes and energy equations of Couette-Poiseuille flow. (*see* **89b:00021**)
Ames, William F. (*with* Lee, Ding) Current development in the numerical treatment of ocean acoustic propagation. **89c:76005**
Andersson, H. I. *see* **Eliasson, Peter; et al.**, (**89j:35007**)
Andreev, A. A. (*with* Kholodov, A. S.) A supersonic three-dimensional flow past blunt bodies that takes interference into account. (Russian) (Not in MR)
Apanovich, Yu. V. (*with* Lyumkis, E. D.) Difference schemes for Navier-Stokes equations on a grid of Dirichlet cells. (Russian) **89f:76004**
Aptekarev, A. I. (*with* Volevich, L. R.) The finite element method in a problem of subsonic potential flows of compressible gas around bodies. (Russian) **89k:76002**
Arina, R. Adaptive orthogonal curvilinear coordinates. (*see* **89j:76004**)
Arminjon, Paul (*with* Dervieux, Alain; Fezoui, Loula; Steve, Herve; Stoufflet, Bruno) Nonoscillatory schemes for multidimensional Euler calculations with unstructured grids. (*see* **89j:35007**)
Bakhvalov, N. S. (*with* Kobel′kov, G. M.) Efficient numerical methods for solving problems in hydrodynamics. (Russian) (*see* **89j:00008**)
Balestra, M. *see* **Hughes, Thomas J. R.; et al., 89j:76015d** *and* **89j:76015e**
Barnsley, G. R. *see* **Soh, W. K., 89d:76004**
Baron, Judson R. *see* **Pervaiz, Mehtab M., 89g:76010**
Bashir, M. *see* **Al-Sadah, Fayez S. H.; et al.**, (**89b:00021**)
Beam, Richard M. *see* **Warming, Robert F.**, (**89c:76003**)
Becker, Klaus Multigrid acceleration of a 2D full potential flow solver. **89j:76006**
Belotserkovskiĭ, S. M. (*with* Lifanov, I. K.; Mikhaĭlov, A. A.) Calculation of circulation-free flow around arbitrary bodies. (Russian) **89e:76001**
Berglind, Torsten Multi-block Euler method using patched grids. (*see* **89j:65010**)
Berk, H. L. *see* **Stotler, D. P., 89a:76008**
Bermúdez de Castro, Alfredo (*with* Durany, J) Numerical solution of steady-state flow through a porous dam. **89c:76006**
Bernard, Robert S. Skew grids and irrotational flow. **89d:76002**
Bernardi, Christine (*with* Maday, Yvon) Spectral methods for the approximation of fourth-order problems: application to the Stokes and Navier-Stokes equations. **89g:76005**
Berniyazov, Zh. E. *see* **Smagulov, Sh.**, (**89j:00015**)
Billet, Germain Finite-difference schemes with dissipation control joined to a generalization of van Leer flux splitting. (*see* **89j:35007**)
Billey, V. (*with* Périaux, Jacques; Perrier, P.; Stoufflet, Bruno) 2-D and 3-D Euler computations with finite element methods in aerodynamics. **89a:76001**
Boĭko, A. Ya. Construction of completely conservative difference schemes of magneto-hydrodynamics in mixed Euler-Lagrange variables by means of the projection method. **89j:76007**
Boon, J.-P. *see* **d'Humières, D.; et al., 89j:76016**
Börgers, Christoph (*with* Peskin, Charles S.) A Lagrangian fractional step method for the incompressible Navier-Stokes equations on a periodic domain. **89c:76007**
Boris, Jay P. New directions in computational fluid dynamics. (*see* **89g:76002**)
Bose, T. K. ★ Computational fluid dynamics. **89j:76008**
Bozduganov, Ivan D. Solution of the Orr-Sommerfeld boundary value problem by the matrix double-sweep method. (Bulgarian. English summary) **89e:76002**
Brackbill, J. U. The ringing instability in particle-in-cell calculations of low-speed flow. **89c:76008**
Brakhagen, F. *see* **Fogwell, T. W.**, (**89j:35007**)
Brand, P. J. *see* **Haldorsen, H. H.; et al.**, (**89j:76003**)
Brio, M. (*with* Wu, Cheng-chin) An upwind differencing scheme for the equations of ideal magnetohydrodynamics. **89c:76009**
Bulgarelli, U. (*with* Cerimele, M. M.; Zaretti, A.) A numerical method for a mathematical model in gravitational hydrodynamics. **89j:76009**
Buning, Pieter G. Sources of error in the graphical analysis of CFD results. (Not in MR)
Byrkin, A. P. (*with* Tolstykh, A. I.) Third- and fourth-order compact schemes in problems of internal flows of viscous and nonviscous gases. (Russian) **89i:76004**
Cahouet, J. (*with* Chabard, J.-P.) Some fast 3D finite element solvers for the generalized Stokes problem. **89i:76005**
Camarero, Ricardo *see* **Pelletier, Dominique; et al., 89j:76024**
Cantaloube, B. (*with* Rehbach, C.) Computation of the pressure in an incompressible rotational flow of inviscid fluid. **89g:76006**
Canuto, Claudio (*with* Hussaini, M. Y.; Quarteroni, A.; Zang, T. A.) ★ Spectral methods in fluid dynamics. **89m:76004**
Carey, G. F. *see* **MacKinnon, R. J., 89g:76009**
Casulli, Vincenzo Eulerian-Lagrangian methods for the Navier-Stokes equations at high Reynolds number. **89i:76006**
Cerimele, M. M. *see* **Bulgarelli, U.; et al., 89j:76009**
Chabard, J.-P. *see* **Cahouet, J., 89i:76005**
Chalabi, Abdallah A self-consistent finite-difference treatment of the moving boundary for long waves in shallow water. **89e:76003**
Chandler-Wilde, S. N. (*with* Hothersall, D. C.) Integral equations in traffic noise simulation. (*see* **89c:00032**)
Chang, Chien-Cheng Random vortex methods for the Navier-Stokes equations. **89e:76004**
Chen, Bing Mu *see* **Zhu, You Lan; et al., 89i:76019**
Chen, Gui Qiang Convergence of the Lax-Friedrichs scheme for isentropic gas dynamics. III. **89f:76007**
— *see also* **Ding, Xia Xi; et al., 89f:76006**
Childs, P. N. *see* **Morton, K. W.; et al.**, (**89j:76004**)
Chiocchia, G. (*with* Gabutti, B.) A new transformation for computing hypergeometric series and the exact evaluation of the transonic adiabatic flow over a smooth bump. **89k:76003**
Chorin, Alexandre Joel Vortex methods and turbulence theory. **89d:76003**
Christiansen, Søren A stability analysis of a Eulerian method for some surface gravity wave problems. (*see* **89j:35007**)
Clavin, Paul (*with* d'Humières, D.; Lallemand, P.; Pomeau, Y.) Automates cellulaires pour les problèmes à frontières libres en hydrodynamique à deux et trois dimensions. (English summary) [Cellular automata for hydrodynamics with free boundaries in two and three dimensions] **89k:76004**
Dab, D. *see* **d'Humières, D.; et al., 89j:76016**
Dadone, Andrea (*with* Moretti, Gino) Fast Euler solver for transonic airfoils. I. Theory. **89f:76005a**
— (*with* Moretti, Gino) Fast Euler solver for transonic airfoils. II. Applications. **89f:76005b**
Dar′in, N. A. (*with* Mazhukin, V. I.; Samarskiĭ, A. A.) A finite-difference method for solving gas dynamic equations using adaptive grids that are dynamically connected with the solution. (Russian) **89i:76007**
Demirdžić, I. (*with* Perić, M.) Space conservation law in finite volume calculations of fluid flow. **89j:76010**
Dervieux, Alain *see* **Lallemand, Marie-Hélène, 89i:76013** *and* **Arminjon, Paul; et al.**, (**89j:35007**)
Deshpande, S. M. (*with* Mandal, J. C.) Kinetic theory based new upwind methods for inviscid compressible flows. (Russian and Bulgarian summaries) **89j:76011**
— *see also* **Mandal, J. C.**, (**89j:35007**)
Devloo, Philippe (*with* Oden, J. T.; Pattani, Paresh) An *h-p* adaptive finite element method for the numerical simulation of compressible flow. **89h:76003**
Dick, Erik A multigrid method for steady incompressible Navier-Stokes equations based on flux-vector splitting. **89m:76005**
Ding, Xia Xi (*with* Chen, Gui Qiang; Luo, Pei Zhu) Convergence of the Lax-Friedrichs scheme for isentropic gas dynamics. I, II. **89f:76006**
Dritschel, David G. Contour surgery: a topological reconnection scheme for extended integrations using contour dynamics. **89e:76005**
Du, Xun On the stability of finite difference method for solving three-dimensional unsteady gasdynamic equations with artificial viscosity terms. **89i:76008**
Dubrulle, Bérengère Method of computation of the Reynolds number for two models of lattice gas involving violation of semi-detailed balance. **89m:76006**
Dulikravich, George S. Analysis of artificial dissipation models for the transonic full-potential equation. **89i:76009**
Durany, J *see* **Bermúdez de Castro, Alfredo, 89c:76006**
Dwoyer, Douglas L. *see* **Walters, Robert W., 89a:76009**
El Dabaghi, F. Steady incompressible and compressible solution of Navier-Stokes equations by rotational correction. (*see* **89j:76004**)
Eliasson, Peter (*with* Rizzi, Arthur; Andersson, H. I.) Time-marching method to solve steady incompressible Navier-Stokes equations for laminar and turbulent flow. (*see* **89j:35007**)
Elizarova, T. G. Boundary conditions for kinetically consistent difference schemes of gas dynamics. (Russian) **89e:76006**
El Marjani, A. (*with* Leboeuf, F.) Boundary element method in the 3-D parabolized Navier-Stokes computation for internal flows. (*see* **89g:76003d**)
Erlebacher, G. (*with* Hussaini, M. Y.; Zang, T. A.) Spectral multigrid methods for the solution of homogeneous turbulence problems. **89m:76007**
Ferm, Lars Open boundary conditions for stationary inviscid flow problems. **89f:76008**
Fernandez, Gilles (*with* Larrouturou, B.) Hyperbolic schemes for multi-component Euler equations. (*see* **89j:35007**)
Fezoui, Loula *see* **Arminjon, Paul; et al.**, (**89j:35007**)
Fleeter, S. *see* **Schroeder, L., 89e:76012**
Fletcher, C. A. J. Computational modelling of severe gradients with mass operator constructions. **89j:76012**
— *see also* **Holland, P. G.**, (**89b:00021**)
Fogelson, Aaron L. (*with* Peskin, Charles S.) A fast numerical method for solving the three-dimensional Stokes equations in the presence of suspended particles. **89h:76004**
Fogwell, T. W. (*with* Brakhagen, F.) Multigrid methods for the solution of porous media multiphase flow equations. (*see* **89j:35007**)
Fortin, Andre *see* **Pelletier, Dominique; et al., 89j:76024**
Franca, Leopoldo P. *see* **Hughes, Thomas J. R.; et al., 89j:76015d; 89j:76015e; 89j:76015f** *and* **89j:76015g**
Fryazinov, I. V. *see* **Goncharov, A. L., 89j:76013**
Gabutti, B. *see* **Chiocchia, G., 89k:76003**
Galitsyn, A. S. (*with* Zhukovskiĭ, A. N.; Karagodov, V. P.) Solution of nonlinear convection problems in a closed volume of a viscous fluid by a projection-difference method. (Russian) **89g:76007**
Gao, Shi An *see* **Leslie, D. C., 89j:76021**
Gaskell, P. H. (*with* Lau, A. K. C.) Curvature-compensated convective transport: SMART,

a new boundedness-preserving transport algorithm. **89c:76010**
Gassiev, R. V. *see* **Vabishchevich, P. N., 89k:76009**
Gheorghiu, C. I. On the use of Green's formula for the solution of the Navier-Stokes equations. (*see* **89f:00016**)
Glaister, P. Flux difference splitting for the Euler equations with axial symmetry. **89e:76007**
Golovachëv, Yu. P. (*with* Leont'eva, N. V.) Numerical modeling of a supersonic flow around a sphere in a gas with changing density. (Russian) (Not in MR)
Goncharov, A. L. (*with* Fryazinov, I. V.) Difference schemes on a 13-point pattern and schemes with local monotonization on irregular grids for two-dimensional Navier-Stokes equations. (Russian) **89j:76013**
Goodrich, John W. *see* **Soh, W. Y., 89g:76011**
Greenberg, Steven (*with* McQueen, David M.; Peskin, Charles S.) Three-dimensional fluid dynamics in a two-dimensional amount of central memory. **89a:76002**
Greywall, Mahesh S. Streamwise computation of three-dimensional incompressible potential flows. **89e:76008**
Gunzburger, Max D. (*with* Peterson, Janet S.) On finite element approximations of the streamfunction-vorticity and velocity-vorticity equations. **89i:76010**
Hackbusch, Wolfgang The panel clustering technique for the boundary element method (invited contribution). **89i:76011**
Haj-Hariri, Hossein Transformations reducing the order of the parameter in differential eigenvalue problems. **89e:76009**
Haldorsen, H. H. (*with* Brand, P. J.; Macdonald, C. J.) Review of the stochastic nature of reservoirs. (*see* **89j:76003**)
Hänel, D. *see* **Schröder, Wolfgang^2, 89f:76012**
Harabetian, Eduard A numerical method for computing viscous shock layers. (*see* **89j:35007**)
Hartwich, Peter-M. (*with* Hsu, Chung-Hao) High-resolution upwind schemes for the three-dimensional incompressible Navier-Stokes equations. **89j:76014**
Hebeker, F.-K. Efficient boundary element methods for three-dimensional exterior viscous flows. **89c:76011**
Hemker, P. W. (*with* Koren, Barry) Multigrid, defect correction and upwind schemes for the steady Navier-Stokes equations. (*see* **89j:76004**)
Hénon, Michel Viscosity of a lattice gas. **89h:76005**
Hirsh, Richard S. *see* **Ku, Hwar-C.; et al.,** (**89j:65010**)
Holland, P. G. (*with* Fletcher, C. A. J.) Computational investigation of swirling turbulent flow in an annulus. (*see* **89b:00021**)
Hothersall, D. C. *see* **Chandler-Wilde, S. N.,** (**89c:00032**)
Hsiao, G. C. Boundary element methods for a class of exterior singular perturbation problems. **89g:76008**
— (*with* Porter, John F.) A hybrid method for an exterior boundary value problem based on asymptotic expansion, boundary integral equation and finite element approximations. **89c:76012**
Hsu, Chung-Hao *see* **Hartwich, Peter-M., 89j:76014**
Huang, Lan Jie (*with* Shen, Jian Xiong) Numerical solution of the incompressible Navier-Stokes equations with singular perturbation considerations. **89k:76005**
Hughes, Thomas J. R. (*with* Mallet, Michel) A new finite element formulation for computational fluid dynamics. III. The generalized streamline operator for multidimensional advective-diffusive systems. **89j:76015a**
— (*with* Mallet, Michel) A new finite element formulation for computational fluid dynamics. IV. A discontinuity-capturing operator for multidimensional advective-diffusive systems. **89j:76015c**
— (*with* Franca, Leopoldo P.; Balestra, M.) A new finite element formulation for computational fluid dynamics. V. Circumventing the Babuška-Brezzi condition: a stable Petrov-Galerkin formulation of the Stokes problem accommodating equal-order interpolations. **89j:76015d**
— (*with* Mallet, Michel) Errata: "A new finite element formulation for computational fluid dynamics. III. The generalized streamline operator for multidimensional advective-diffusive systems". **89j:76015b**
— (*with* Franca, Leopoldo P.; Balestra, M.) Errata: "A new finite element formulation for computational fluid dynamics. V. Circumventing the Babuška-Brezzi condition: a stable Petrov-Galerkin formulation of the Stokes problem accommodating equal-order interpolations". **89j:76015e**
— (*with* Franca, Leopoldo P.; Mallet, Michel) A new finite element formulation for computational fluid dynamics. VI. Convergence analysis of the generalized SUPG formulation for linear time-dependent multidimensional advective-diffusive systems. **89j:76015f**
— (*with* Franca, Leopoldo P.) A new finite element formulation for computational fluid dynamics. VII. The Stokes problem with various well-posed boundary conditions: symmetric formulations that converge for all velocity/pressure spaces. **89j:76015g**
d'Humières, D. (*with* Lallemand, P.; Boon, J.-P.; Dab, D.; Noullez, A.) Fluid dynamics with lattice gases. **89j:76016**
— *see also* **Clavin, Paul; et al., 89k:76004**
Huněk, M. (*with* Kozel, K.; Vavřincová, M.) Numerical solution of transonic potential flow in 2D compressor cascades using multi-grid techniques. (*see* **89m:65007**)
Hussaini, M. Y. *see* **Canuto, Claudio; et al., 89m:76004** *and* **Erlebacher, G.; et al., 89m:76007**
Iga, M. (*with* Reddy, J. N.) Penalty finite element analysis of free surface flows of power-law fluids. (*see* **89c:65004**)
Ishiguro, Tomiko *see* **Wada, Y.; et al.,** (**89j:35007**)
Jones, W. P. (*with* Musonge, P.) Closure of the Reynolds stress and scalar flux equations. **89i:76012**
Jureidini, W. N. The asymptotic behaviour of some semi-discrete and fully-discrete finite element schemes for the evolution Navier-Stokes equations. **89j:76017**
Kadanoff, Leo P. (*with* McNamara, Guy R.; Zanetti, Gianluigi) A Poiseuille viscometer for lattice gas automata. **89c:76013**
Kalis, Harijs Edmunds Some difference schemes for solving boundary value problems of hydrodynamics and magnetohydrodynamics in a broad range of variation of parameters. (Russian) **89c:76014**
Kandil, O. A. *see* **Liu, Chen-Huei; et al.,** (Not in MR)
Kansa, E. J. Shock computations with adaptive mesh refinement and moving grids. **89e:76010**
Karageorghis, Andreas *see* **Phillips, T. N.,** (**89j:76004**)
Karagodov, V. P. *see* **Galitsyn, A. S.; et al., 89g:76007**
Karpov, V. Ya. A method for calculating Rayleigh-Taylor instability in Euler variables. (Russian) **89j:76018**
Kawahara, M. (*with* Kodama, Toshio; Kinoshita, Masataka) Finite element method for tsunami wave propagation analysis considering the open boundary condition. **89e:76011**
Khaliq, A. Q. M. *see* **Al-Sadah, Fayez S. H.; et al.,** (**89b:00021**)
Khazanov, M. V. On the solution of equations of the dynamics of a fluid when external oscillations are imposed on the channel wall. (Russian) (Not in MR)
Kholodov, A. S. *see* **Andreev, A. A.,** (Not in MR)
Kinoshita, Masataka *see* **Kawahara, M.; et al., 89e:76011**
Kobel'kov, G. M. *see* **Bakhvalov, N. S.,** (**89j:00008**)
Kodama, Toshio *see* **Kawahara, M.; et al., 89e:76011**
Kondo, Shunsuke *see* **Koshizuka, Seiichi; et al., 89c:76015**
Koren, Barry (*with* Spekreijse, Stefan) Solution of the steady Euler equations by a multigrid method. **89j:76019**
— Upwind schemes for the Navier-Stokes equations. (*see* **89j:35007**)
— *see also* **Hemker, P. W.,** (**89j:76004**)
Koshizuka, Seiichi (*with* Oka, Yoshiaki; Kondo, Shunsuke; Togo, Yasumasa) Interpolating matrix method: a finite difference method for arbitrary arrangement of mesh points. **89c:76015**
Kozel, K. (*with* Vavřincová, M.; Nguyen Van Nhac) Numerical solution of the Euler equations used for simulation of 2D and 3D steady transonic flows. (*see* **89j:35007**)
— *see also* **Huněk, M.; et al.,** (**89m:65007**)
Kraĭko, A. N. The integration of numerical methods and analytic approaches in gas dynamics. (Russian) **89f:76009**
— (*with* Polyanskiĭ, A. R.; Tillyaeva, N. I.) On a "forward" calculation of flows with shock waves. (Russian) (Not in MR)
Krist, S. E. *see* **Nosenchuck, D. M.; et al., 89k:76007**
Kröner, Dietmar Numerical schemes for the Euler equations in two space dimensions without dimensional splitting. (*see* **89j:35007**)
Ku, Hwar-C. (*with* Hirsh, Richard S.; Taylor, Thomas D.; Rosenberg, Allan P.) A domain decomposition approach for the computation of incompressible flow by the pseudospectral matrix element method and its parallel implementation. (*see* **89j:65010**)
Kubota, Hiroshi *see* **Wada, Y.; et al.,** (**89j:35007**)
Kulacki, F. A. *see* **Rajen, G., 89c:76019**
Lallemand, Marie-Hélène (*with* Dervieux, Alain) A multigrid finite element method for solving the two-dimensional Euler equations. **89i:76013**
Lallemand, P. *see* **d'Humières, D.; et al., 89j:76016** *and* **Clavin, Paul; et al., 89k:76004**
Larrouturou, B. *see* **Fernandez, Gilles,** (**89j:35007**)
Lau, A. K. C. *see* **Gaskell, P. H., 89c:76010**
Lavery, John E. Nonoscillatory solution of the steady-state inviscid Burgers' equation by mathematical programming. **89j:76020**
Leaf, G. K. *see* **Thompson, C. P.; et al., 89f:76013**
Leboeuf, F. *see* **El Marjani, A.,** (**89g:76003d**)
Leca, P. (*with* Sacchi Landriani, G.) Parallelization of a spectral influence matrix method for the numerical solution of the Navier-Stokes equations. **89i:76014**
Lee, Ding *see* **Ames, William F., 89c:76005**
Leont'eva, N. V. *see* **Golovachëv, Yu. P.,** (Not in MR)
Lerat, A. (*with* Sidès, J.) Efficient solution of the steady Euler equations with a centered implicit method. (*see* **89j:76004**)
Leslie, D. C. (*with* Gao, Shi An) The stability of spectral schemes for the large eddy simulation of channel flows. **89j:76021**
Lifanov, I. K. *see* **Belotserkovskiĭ, S. M.; et al., 89e:76001**
Lim, H. A. Lattice gas automata of fluid dynamics for unsteady flow. **89c:76016**
Liu, Chao Qun (*with* McCormick, Stephen F.) Multigrid, elliptic grid generation and the fast adaptive composite grid method for solving transonic potential flow equations. **89f:76010**
Liu, Chen-Huei (*with* Wong, T. C.; Kandil, O. A.) Separation-bubble flow solution using Euler/Navier-Stokes zonal approach with downstream compatibility conditions. (Not in MR)
Lomax, Harvard *see* **Pan, Dartzi, 89c:76018**
Luo, Pei Zhu *see* **Ding, Xia Xi; et al., 89f:76006**
Lyumkis, E. D. *see* **Apanovich, Yu. V., 89f:76004**
Macdonald, C. J. *see* **Haldorsen, H. H.; et al.,** (**89j:76003**)
MacKinnon, R. J. (*with* Carey, G. F.) Analysis of material interface discontinuities and superconvergent fluxes in finite difference theory. **89g:76009**
Maday, Yvon *see* **Bernardi, Christine, 89g:76005**
Mallet, Michel *see* **Hughes, Thomas J. R., 89j:76015a; 89j:76015b; 89j:76015c** *and* **89j:76015f**
Mandal, J. C. (*with* Deshpande, S. M.) Higher order accurate kinetic flux vector splitting method for Euler equations. (*see* **89j:35007**)
— *see also* **Deshpande, S. M., 89j:76011**
Mazhukin, V. I. *see* **Dar'in, N. A.; et al., 89i:76007**
McCormick, Stephen F. *see* **Liu, Chao Qun, 89f:76010**
McNamara, Guy R. *see* **Kadanoff, Leo P.; et al., 89c:76013**
McQueen, David M. *see* **Greenberg, Steven; et al., 89a:76002**
Miketinac, M. J. (*with* Sani, R. L.) Simulation of jet flows in ideal fluids by variable finite elements. **89k:76006**
Mikhaĭlov, A. A. *see* **Belotserkovskiĭ, S. M.; et al., 89e:76001**
Moretti, Gino A technique for integrating two-dimensional Euler equations. **89j:76022**
— *see also* **Dadone, Andrea, 89f:76005a** *and* **89f:76005b**
Morton, K. W. (*with* Childs, P. N.; Rudgyard, M. A.) The cell vertex method for steady compressible flow. (*see* **89j:76004**)
Munz, Claus-Dieter (*with* Schmidt, Lutz) Numerical simulations of compressible hydrodynamic instabilities with high resolution schemes. (*see* **89j:35007**)
Musonge, P. *see* **Jones, W. P., 89i:76012**
(**Natarajan, B.**) *see* **Bose, T. K., 89j:76008**
Nguyen Van Nhac *see* **Kozel, K.; et al.,** (**89j:35007**)

Niessner, H. Significance of kernel singularities for the numerical solution of Fredholm integral equations. (*see* **89e:00008**)

Nosenchuck, D. M. (*with* Krist, S. E.; Zang, T. A.) On multigrid methods for the Navier-Stokes computer. **89k:76007**

Noullez, A. *see* **d'Humières, D.; et al., 89j:76016**

Noye, John Finite difference methods for solving the one-dimensional transport equation. **89a:76003**

— Time-splitting the one-dimensional transport equation. **89a:76004**

Oden, J. T. *see* **Devloo, Philippe; et al., 89h:76003**

Ogawa, Satoru *see* **Wada, Y.; et al.**, (**89j:35007**)

Oka, Yoshiaki *see* **Koshizuka, Seiichi; et al., 89c:76015**

Osipov, A. A. (*with* Shirkovskii, I. A.) Application of the finite element method for calculating acoustic fields in nonuniform gas flows. (Russian) **89f:76011**

Ostapenko, V. V. A method for constructing conservative difference schemes in hydraulics. (Russian) **89c:76017**

Pan, Dartzi (*with* Lomax, Harvard) A new approximate *LU* factorization scheme for the Reynolds-averaged Navier-Stokes equations. **89c:76018**

Pandolfi, Maurizio On the "flux-difference splitting" formulation. (*see* **89j:35007**)

Paolini, M. (*with* Sacchi Landriani, Giovanni; Verdi, Claudio) Finite element approximations of singular parabolic problems. **89j:76023**

Pattani, Paresh *see* **Devloo, Philippe; et al., 89h:76003**

Pelletier, Dominique (*with* Fortin, Andre; Camarero, Ricardo) Are FEM solutions of incompressible flows really incompressible? (or how simple flows can cause headaches!). **89j:76024**

Peralta H., Raymundo E. A method for the numerical solution of boundary layer problems. I. An application to heart valves. (Spanish) (*see* **89k:00010**)

Périaux, Jacques *see* **Billey, V.; et al., 89a:76001**

Perić, M. *see* **Demirdžić, I., 89j:76010**

Perrier, P. *see* **Billey, V.; et al., 89a:76001**

Pervaiz, Mehtab M. (*with* Baron, Judson R.) Temporal and spatial adaptive algorithm for reacting flows. **89g:76010**

Peskin, Charles S. *see* **Greenberg, Steven; et al., 89a:76002**; **Börgers, Christoph, 89c:76007** *and* **Fogelson, Aaron L., 89h:76004**

Peterson, Janet S. *see* **Gunzburger, Max D., 89i:76010**

Pfitzner, M. Runge-Kutta split-matrix method for the simulation of real gas hypersonic flows. (*see* **89j:35007**)

Phillips, T. N. (*with* Karageorghis, Andreas) Chebyshev collocation methods for the solution of the incompressible Navier-Stokes equations in complex geometries. (*see* **89j:76004**)

Polyanskiĭ, A. R. *see* **Kraĭko, A. N.; et al.**, (Not in MR)

Pomeau, Y. *see* **Clavin, Paul; et al., 89k:76004**

Popov, S. B. *see* **Poveshchenko, Yu. A.; et al., 89i:76015**

Porter, John F. *see* **Hsiao, G. C., 89c:76012**

Poveshchenko, Yu. A. (*with* Popov, S. B.; Syrovat·skaya, T. N.) Investigation of the stability of two-layer difference schemes of gas dynamics in Euler variables. (Russian) **89i:76015**

Pulliam, Thomas H. Implicit methods in CFD. (*see* **89j:76004**)

Quarteroni, A. *see* **Canuto, Claudio; et al., 89m:76004**

Rajen, G. (*with* Kulacki, F. A.) A boundary element analysis of natural convection in fluids and porous media. **89c:76019**

Reddy, J. N. *see* **Iga, M.**, (**89c:65004**)

Rehbach, C. *see* **Cantaloube, B., 89g:76006**

Rizzi, Arthur *see* **Eliasson, Peter; et al.**, (**89j:35007**)

Roe, P. L. *see* **Toro, E. F.**, (**89j:76004**)

Rosenberg, Allan P. *see* **Ku, Hwar-C.; et al.**, (**89j:65010**)

Rostand, Philippe (*with* Stoufflet, Bruno) TVD schemes to compute compressible viscous flows on unstructured meshes. (*see* **89j:35007**)

Rudgyard, M. A. *see* **Morton, K. W.; et al.**, (**89j:76004**)

Rymarz, C. (*with* Winnicki, I.) The convergence of the passage method with iteration for the nonlinear equations describing shallow water. (Russian and Polish summaries) **89a:76005**

Rysbaev, B. R. *see* **Zhanasbaeva, U. B., 89d:76005**

Sacchi Landriani, G. *see* **Leca, P., 89i:76014** *and* **Paolini, M.; et al., 89j:76023**

Sadykov, M. K. A regularized difference scheme for solving a boundary value problem of a nonlinear filtration in a three-layer stratum. (Russian) (*see* **89f:00005**)

Samarskiĭ, A. A. *see* **Dar′in, N. A.; et al., 89i:76007**

Sani, R. L. *see* **Miketinac, M. J., 89k:76006**

Savel′ev, A. D. (*with* Tolstykh, A. I.) Algorithms for the calculation of viscous gas flows based on third-order compact approximations. (Russian) **89a:76006**

Schippers, H. Multigrid methods in boundary element calculations (invited contribution). **89i:76016**

Schmidt, Lutz *see* **Munz, Claus-Dieter**, (**89j:35007**)

Schröder, Wolfgang^2 (*with* Hänel, D.) A multigrid-relaxation scheme for the Navier-Stokes equations. **89f:76012**

Schroeder, L. (*with* Fleeter, S.) Locally analytic numerical method and application to viscous internal and external flows. **89e:76012**

Serrano, Sergio E. (*with* Unny, T. E.) Boundary element solution of the two-dimensional groundwater flow equation with stochastic free surface boundary condition. **89a:76007**

Shapiro, Richard A. Prediction of dispersive errors in numerical solution of the Euler equations. (*see* **89j:35007**)

Shen, Jian Xiong *see* **Huang, Lan Jie, 89k:76005**

Shinn, Judy L. *see* **Yee, H. C., 89k:76010**

Shirkovskiĭ, I. A. *see* **Osipov, A. A., 89f:76011**

Shokin, Yu. I. Completely conservative difference schemes. **89j:76025**

Shopov, Petr Ĭ. Numerical method for free-surface hydrodynamical problems. **89i:76017**

Sidès, J. *see* **Lerat, A.**, (**89j:76004**)

Sloan, D. M. On modulational instabilities in discretisations of the Korteweg-de Vries equation. **89k:76008**

Smagulov, Sh. (*with* Berniyazov, Zh. E.) Stable difference schemes for models of magnetogasdynamics. (Russian) (*see* **89j:00015**)

— (*with* Zhanasbaeva, U. B.) Approximate methods for solving a problem of magnetogasdynamics with variable viscosity. (Russian) **89j:76026**

Soh, W. K. (*with* Barnsley, G. R.) Computation of nonlinear water waves generated by a submerged body. **89d:76004**

Soh, W. Y. (*with* Goodrich, John W.) Unsteady solution of incompressible Navier-Stokes equations. **89g:76011**

Sommerfeld, Martin Numerical prediction of shock wave focusing phenomena in air with experimental verification. (*see* **89j:35007**)

Souli, M. (*with* Zolésio, J.-P.) Semidiscrete and discrete gradient for nonlinear water wave problems. **89j:76027**

Spekreijse, Stefan *see* **Koren, Barry, 89j:76019**

Steve, Herve *see* **Arminjon, Paul; et al.**, (**89j:35007**)

Stotler, D. P. (*with* Berk, H. L.) Solution of hot particle ballooning mode integral equation in tokamaks. **89a:76008**

Stoufflet, Bruno *see* **Billey, V.; et al., 89a:76001**; **Arminjon, Paul; et al.**, (**89j:35007**) *and* **Rostand, Philippe**, (**89j:35007**)

Sweby, Peter K. "TVD" schemes for inhomogeneous conservation laws. (*see* **89j:35007**)

Syrovat·skaya, T. N. *see* **Poveshchenko, Yu. A.; et al., 89i:76015**

Szymczak, William G. An analysis of viscous splitting and adaptivity for steady-state convection-diffusion problems. **89h:76006**

Taylor, Thomas D. *see* **Ku, Hwar-C.; et al.**, (**89j:65010**)

Thompson, C. P. (*with* Leaf, G. K.; Vanka, S. P.) Application of a multigrid method to a buoyancy-induced flow problem. **89f:76013**

Tillyaeva, N. I. *see* **Kraĭko, A. N.; et al.**, (Not in MR)

Tirskiĭ, G. A. Hypersonic flow of a viscous heat-conducting chemically reacting gas around bodies for a broad range of Reynolds numbers. (Russian) **89f:76014**

Tkachenko, S. I. A difference scheme of second order of accuracy for equations of gas dynamics for the compatible approximation of convective flows. **89h:76007**

Togo, Yasumasa *see* **Koshizuka, Seiichi; et al., 89c:76015**

Tolstykh, A. I. *see* **Savel′ev, A. D., 89a:76006** *and* **Byrkin, A. P., 89i:76004**

Toro, E. F. (*with* Roe, P. L.) A hybrid scheme for the Euler equations using the random choice and Roe's methods. (*see* **89j:76004**)

— Random-choice based hybrid methods for one- and two-dimensional gas dynamics. (*see* **89j:35007**)

Unny, T. E. *see* **Serrano, Sergio E., 89a:76007**

Vabishchevich, P. N. (*with* Gassiev, R. V.) Numerical algorithms for forward calculation for the solution of problems of ideal hydrodynamics. (Russian) **89k:76009**

Vanka, S. P. *see* **Thompson, C. P.; et al., 89f:76013**

Vavřincová, M. *see* **Kozel, K.; et al.**, (**89j:35007**) *and* **Huněk, M.; et al.**, (**89m:65007**)

Verdi, Claudio *see* **Paolini, M.; et al., 89j:76023**

Volevich, L. R. *see* **Aptekarev, A. I., 89k:76002**

Wada, Y. (*with* Kubota, Hiroshi; Ishiguro, Tomiko; Ogawa, Satoru) A fully implicit high-resolution scheme for chemically reacting compressible flows. (*see* **89j:35007**)

Walters, Robert W. (*with* Dwoyer, Douglas L.) An efficient iteration strategy for the solution of the Euler equations. **89a:76009**

Wang, Bao Guo On general form of Navier-Stokes equations and implicit factored scheme. **89c:76020**

Wang, Hong^1 The convergence of BEM for the stationary Stokes problem in three dimensions. **89i:76018**

Warming, Robert F. (*with* Beam, Richard M.) Stability of semi-discrete approximations for hyperbolic initial-boundary value problems. II. Asymptotic estimates. (*see* **89c:76003**)

Winnicki, I. *see* **Rymarz, C., 89a:76005**

Wong, T. C. *see* **Liu, Chen-Huei; et al.**, (Not in MR)

Wu, Cheng-chin *see* **Brio, M., 89c:76009**

Yee, H. C. (*with* Shinn, Judy L.) Semi-implicit and fully implicit shock-capturing methods for nonequilibrium flows. **89k:76010**

Zanetti, Gianluigi *see* **Kadanoff, Leo P.; et al., 89c:76013**

Zang, T. A. *see* **Nosenchuck, D. M.; et al., 89k:76007**; **Canuto, Claudio; et al., 89m:76004** *and* **Erlebacher, G.; et al., 89m:76007**

Zaretti, A. *see* **Bulgarelli, U.; et al., 89j:76009**

Zhanasbaeva, U. B. (*with* Rysbaev, B. R.) A stable difference scheme for the equations of a barotropic gas with free boundaries with a nonmonotone state function. **89d:76005**

— *see also* **Smagulov, Sh., 89j:76026**

Zhang, Zuo Min *see* **Zhu, You Lan; et al., 89i:76019**

Zhong, Xi Chang *see* **Zhu, You Lan; et al., 89i:76019**

Zhu, You Lan (*with* Zhong, Xi Chang; Chen, Bing Mu; Zhang, Zuo Min) ★ Difference methods for initial-boundary value problems and flow around bodies. **89i:76019**

Zhukovskiĭ, A. N. *see* **Galitsyn, A. S.; et al., 89g:76007**

Zolésio, J.-P. *see* **Souli, M., 89j:76027**

Items with secondary classifications in 76–08

Abalakin, I. V. (*with* Dorodnitsyn, L. V.; Elizarova, T. G.) Direct numerical modeling of the Blasius problem. **89f:76057**

Aggarwala, B. D. (*with* Ariel, P. D.) Modified boundary integral method for pressure driven MHD duct flow. **89k:76099**

Alekseev, V. A. ★ Сходимость полунеявной схемы Кранка-Николсона для уравнения баротропного вихря. (Russian) [Convergence of a semi-implicit Crank-Nicolson scheme for the equation of a barotropic vortex] **89b:65240**

Amosov, A. A. (*with* Zlotnik, A. A.) A family of difference schemes for equations of one-dimensional magnetogasdynamics: properties and error estimates "in the large". **89g:65111**

Amrouche, Chérif (*with* Girault, Vivette) Une méthode d'approximation mixte des équations des fluides non newtoniens de troisième grade. (English summary) [Mixed approximations of the equations of non-Newtonian fluids of grade three] **89h:65210**

Antes, Heinz ★ Anwendungen der Methode der Randelemente in der Elastodynamik und der Fluiddynamik. (German) [Applications of the method of boundary elements in elastodynamics and in fluid dynamics] **89k:73002**

Aparinov, V. A. (*with* Belotserkovskiĭ, S. M.; Lifanov, I. K.; Mikhaĭlov, A. A.) Calculation of nonstationary aerodynamic characteristics of bodies in the case of separated flow. (Russian) **89k:76023**

Appert, K. (*with* Succi, S.; Vaclavik, J.; Villard, L.) Finite elements applied to plasma waves. **89f:65117**
Aptekarev, A. I. (*with* Volevich, L. R.) Calculation of subsonic potential flow around smooth and pointed profiles by means of higher-order finite elements. (Russian) **89i:76065**
— (*with* Volevich, L. R.) Calculation of axially symmetric potential subsonic flows by means of higher-order finite elements. (Russian) **89m:76049**
Ardelyan, N. V. (*with* Chernigovskiĭ, S. V.) Stability of difference schemes of gasdynamics with viscosity and heat conductivity. **89j:65061**
Aref, H. (*with* Tryggvason, Grétar) Model of Rayleigh-Taylor instability. **89k:76047**
Ariel, P. D. *see* **Aggarwala, B. D., 89k:76099**
Bagnoli, F. (*with* Ciliberto, S.; Francescato, A.; Livi, R.; Ruffo, Stefano) Cellular automaton model for a fluid experiment. (*see* **89g:58144**)
Baines, M. J. Moving element methods for time dependent problems. (*see* **89j:76004**)
— *see also* **Numerical methods for fluid dynamics, 89j:76004**
Bamberger, A. (*with* Starling, Felipe) Integro-differential formulation and boundary element method resolution of an acoustic scattering problem. **89j:76073**
Banat, M. (*with* Benkirane, R.; Line, A.; Masbernat, L.) Modèle de l'écoulement gaz-liquide stratifié à interface ondulée. [Model of stratified gas-liquid flow with undulatory interface] (*see* **89g:76003d**)
Barnyak, M. Ya. Application of the method of orthogonal projections to the investigation of small oscillations of a fluid in a vessel. (Russian) **89g:76020**
(Barthet, H.) *see* **Computer methods and water resources, 89g:76003b**
(Belotserkovskiĭ, O. M.) *see* **Magomedov, K. M., 89m:65001**
Belotserkovskiĭ, S. M. *see* **Aparinov, V. A.; et al., 89k:76023**
Benkirane, R. *see* **Banat, M.; et al., (89g:76003d)**
Bernardi, Christine (*with* Maday, Yvon; Métivet, Brigitte) Spectral approximation of the periodic-nonperiodic Navier-Stokes equations. **89f:65118**
— (*with* Maday, Yvon) A collocation method over staggered grids for the Stokes problem. **89j:76041**
Bernert, Klaus Numerical solution of the Navier-Stokes equations on orthogonal grids. **89h:65139**
Betancourt, Octavio BETAS, a spectral code for three-dimensional magnetohydrodynamic equilibrium and nonlinear stability calculations. **89h:76045**
Bidner, M. S. *see* **Darderes, Enrique A.; et al., 89f:76077**
Binder, P. M. Lattice models of the Lorentz gas: physical and dynamical properties. **89c:82030**
Birkhoff, Garrett Sound waves in fluids. **89h:76030**
Blake, John *see* **Kucera, Adam, 89j:76029**
Bochorishvili, R. D. (*with* Skhirtladze, N. M.) Kinetic type splitting. (Russian. English and Georgian summaries) **89g:76034**
Brădeanu, Doina Some considerations on the application of the Galerkin method to unidimensional diffusion-convection problems. **89i:65074**
Bradley, Derek (*with* Missaghi, M.; Chin, S. B.) A Taylor-series approach to numerical accuracy and a third-order scheme for strong convective flows. **89d:76029**
Bradshaw, Peter *see* **Cebeci, Tuncer, 89i:76086a**
Braĭlovskaya, V. A. (*with* Kogan, V. R.) A method for calculating periodic vortex flows of an incompressible fluid. (Russian) **89k:76025**
Brebbia, Carlos Alberto (*with* Telles, J. C. F.; Wrobel, L. C.) ★ Методы граничных элементов. (Russian) [Boundary element techniques] **89i:65002**
— *see also* **Computer methods and water resources, 89g:76003a; 89g:76003b; 89g:76003c; 89g:76003d; Computational methods in water resources, 89m:76002** *and* **89m:76003**
Brezzi, F. (*with* Douglas, Jim, Jr.) Stabilized mixed methods for the Stokes problem. **89g:65138**
Brio, M. Admissibility conditions for weak solutions of nonstrictly hyperbolic systems. (*see* **89j:35007**)
Bristeau, M. O. (*with* Glowinski, R.; Périaux, Jacques) Numerical methods for the Navier-Stokes equations. Applications to the simulation of compressible and incompressible viscous flows. **89m:65081**
— (*with* Glowinski, R.; Mantel, B.; Périaux, Jacques; Singh, Gian Sundar) On the use of subcycling for solving the compressible Navier-Stokes equations by operator-splitting and finite element methods. **89h:65211**
Cao, Wei Ming *see* **Guo, Ben Yu, 89c:76039**
Carlson, Neil (*with* Miller, Keith) Gradient weighted moving finite elements in two dimensions. **89i:65094**
Causon, D. M. High resolution finite volume schemes and computational aerodynamics. (*see* **89j:35007**)
Cebeci, Tuncer (*with* Bradshaw, Peter) ★ Physical and computational aspects of convective heat transfer. **89i:76086a**
— (*with* Su, Wenhan) Separation of three-dimensional laminar boundary layers on a prolate spheroid. **89m:76029**
— ★ Solutions manual and computer programs for *Physical and computational aspects of convective heat transfer*. **89i:76086b**
(Celia, M. A.) *see* **Computational methods in water resources, 89m:76002** *and* **89m:76003**
Chacón Rebollo, Tomás Oscillations due to the transport of microstructures. **89j:76052**
Chernigovskiĭ, S. V. *see* **Ardelyan, N. V., 89j:65061**
Chetverushkin, B. N. *see* **Klevtsur, S. V.; et al., 89h:65166**
Childs, P. N. *see* **Morton, K. W., (89j:35007)**
Chin, S. B. *see* **Bradley, Derek; et al., 89d:76029**
Chiu, Chichia (*with* Nicolaides, R. A.) Convergence of a higher-order vortex method for two-dimensional Euler equations. **89c:65117**
Chopard, Bastien (*with* Droz, Michel) Cellular automata model for thermo-hydrodynamics. **89i:76036**
Chorin, Alexandre Joel Scaling laws in the vortex lattice model of turbulence. **89m:76048**
Ciliberto, S. *see* **Bagnoli, F.; et al., (89g:58144)**
Cordova, Jeffrey Q. (*with* Pearson, Carl E.) On a modified streamline curvature method for the Euler equations. **89h:76023**
Cottet, Georges-Henri Convergence of a vortex in cell method for the two-dimensional Euler equations. **89b:65303**
— A new approach for the analysis of vortex methods in two and three dimensions. (French summary) **89m:35177**
Crouzeix, Michel (*with* Falk, Richard S.) Nonconforming finite elements for the Stokes problem. **89i:65113**
(Cruse, T. A.) *see* **Advanced boundary element methods, 89b:65009**
Dairbaeva, G. *see* **Smagulov, Sh., 89i:76077**
Darderes, Enrique A. (*with* Sorarrain, O. M.; Bidner, M. S.) Numerical simulation of the one-dimensional flow of a real gas through a porous medium. (Spanish. English summary) **89f:76077**
Dechaumphai, Pramote *see* **Thornton, Earl A., 89h:80001**
Degtyarev, L. M. (*with* Drozdov, V. V.; Poshekhonov, Yu. Yu.) A three-dimensional problem of magnetohydrodynamic equilibrium: possible scalar formulations. (Russian) **89a:76055**
Deĭneka, V. S. *see* **Lyashko, I. I.; et al., 89e:76077**
Demchenko, L. I. *see* **Demchenko, V. F.; et al., (89f:00005)**
Demchenko, V. F. (*with* Demchenko, L. I.; Zabolotnyĭ, S. N.) Difference schemes on generalized solutions of an equation of convective diffusion. (Russian) (*see* **89f:00005**)
DeVito, C. L. *see* **Neta, B., 89f:76024**
Dey, Charlie *see* **Dey, S. K., 89j:65063**
Dey, S. K. (*with* Dey, Charlie) Accurate explicit finite difference solution of the shock tube problem. **89j:65063**
Dick, Erik Elliptic solution techniques for Euler and Navier-Stokes equations in steady flow. **89a:65183**
Dil'daev, M. S. Numerical solution of a self-similar problem on the permeation of stress into a compressible fluid. (Russian) (*see* **89b:00017**)
Domaradzki, J. Andrzej (*with* Orszag, Steven A.) Numerical solutions of the direct interaction approximation equations for anisotropic turbulence. **89c:76070**
Donéa, J. (*with* Quartapelle, L.; Selmin, V.) An analysis of time discretization in the finite element solution of hyperbolic problems. **89g:65140**
— (*with* Selmin, V.; Quartapelle, L.) Recent developments of the Taylor-Galerkin method for the numerical solution of hyperbolic problems. (*see* **89j:76004**)
Doolen, Gary D. *see* **Montgomery, David, 89a:76058**
Dorodnitsyn, L. V. *see* **Abalakin, I. V.; et al., 89f:76057**
Douglas, Jim, Jr. (*with* Wang, Jun Ping) An absolutely stabilized finite element method for the Stokes problem. **89j:65069**
— *see also* **Brezzi, F., 89g:65138**
Droz, Michel *see* **Chopard, Bastien, 89i:76036**
Drozdov, V. V. *see* **Degtyarev, L. M.; et al., 89a:76055**
Dubois, François (*with* Le Floch, Philippe) Boundary conditions for nonlinear hyperbolic systems of conservation laws. (*see* **89j:35007**)
Durán, R. (*with* Nochetto, Ricardo H.; Wang, Jun Ping) Sharp maximum norm error estimates for finite element approximations of the Stokes problem in 2-D. **89b:65261**
Dutra do Carmo, Eduardo Gomes *see* **Galeão, Augusto Cesar, 89e:65099**
Einfeldt, Bernd On Godunov-type methods for gas dynamics. **89e:65086**
El-Gendi, S. E. (*with* Ibrahim, M. A.-K.; Shamardan, A. B.) The numerical treatment of a singular integro-differential equation arising from the diffusion of discrete particles in a turbulent fluid. **89e:65149**
Elizarova, T. G. A class of kinetically consistent difference schemes of gas dynamics. (Russian) **89a:76044**
— *see also* **Abalakin, I. V.; et al., 89f:76057**
Enikeev, I. Kh. (*with* Kuznetsova, O. F.; Polyanskiĭ, V. A.; Shurgal'skiĭ, È. F.) Mathematical modeling of two-phase swirled flows by the modified method of coarse particles. **89c:76104**
Eydeland, Alexander (*with* Turkington, Bruce) A computational method of solving free-boundary problems in vortex dynamics. **89j:76037**
Faber, V. *see* **Miller, Guthrie; et al., 89i:76103**
Falk, Richard S. *see* **Crouzeix, Michel, 89i:65113**
Fayers, F. J. An introduction to some of the mathematical and physical problems of modelling oil displacement in porous media. (*see* **89j:76003**)
Feng, Kang Asymptotic radiation conditions for reduced wave equation. **89f:65134**
(Ferrand, L. A.) *see* **Computational methods in water resources, 89m:76002** *and* **89m:76003**
Fishelov, Dalia Spectral methods for the small disturbance equation of transonic flows. **89h:76025**
Fomicheva, T. G. *see* **Kononenko, G. N., 89h:76037**
Forsyth, Peter A. Comparison of the single-phase and two-phase numerical model formulation for saturated-unsaturated groundwater flow. **89f:76078**
Fortin, Michel (*with* Souissi, A.) Optimisation de forme du diffuseur d'une turbine hydraulique. [Optimal shape design of the diffuser of a water turbine] **89k:76045**
Foulser, R. W. S. Modelling of phase behaviour in chemical flood simulation. (*see* **89j:76003**)
Francescato, A. *see* **Bagnoli, F.; et al., (89g:58144)**
Franceschini, Valter (*with* Giberti, Claudio; Nicolini, Marco) Common periodic behavior in larger and larger truncations of the Navier-Stokes equations. **89f:76032**
Frisch, Uriel (*with* Rivet, Jean-Pierre) Gaz sur réseau pour l'hydrodynamique: formule de Green-Kubo. (English summary) [Lattice gas hydrodynamics: the Green-Kubo formula] **89k:82048**
Fryazinov, I. V. *see* **Prostomolotov, A. I., 89c:65134**
Frykestig, Jan *see* **Wiberg, Nils-Erik, (89c:65004)**
Fu, De Xun (*with* Ma, Yan Wen) Jacobian matrix splitting methods and numerical computation of aerodynamics equations. (Chinese. English summary) **89i:65134**
Galeão, Augusto Cesar (*with* Dutra do Carmo, Eduardo Gomes) A consistent approximate upwind Petrov-Galerkin method for convection-dominated problems. **89e:65099**
Galiev, Sh. U. ★ Нелинейные волны в ограниченных сплошных средах. (Russian) [Nonlinear waves in bounded continua] **89i:73042**
Gasilov, V. A. (*with* Krylov, S. F.; Sorokovikova, O. S.; Tkachenko, S. I.) Application of completely conservative difference schemes to the calculation of two-dimensional magnetohydrodynamic flows. (Russian) **89f:65093**
Gavrilyuk, V. N. (*with* Semushin, S. A.) A monotone scheme of the second order of accuracy for the calculation of three-dimensional flows of an inviscid gas. (Russian) **89j:65064**
Gerasimov, Yu. Ya. Improvement of methods for calculating a three-dimensional boundary

layer. (Russian) **89h:76027**

Geveci, Tunc On the convergence of a time discretization scheme for the Navier-Stokes equations. **89m:65085**

Giberti, Claudio *see* **Franceschini, Valter; et al., 89f:76032**

Girault, Vivette *see* **Amrouche, Chérif, 89h:65210**

Glimm, James (*with* Grove, John; Lindquist, W. Brent; McBryan, Oliver A.; Tryggvason, Grétar) The bifurcation of tracked scalar waves. **89g:76032**

Glowinski, R. Viscous flow simulation by finite element methods and related numerical techniques. **89f:65099**

— On a new preconditioner for the Stokes problem. (Portuguese summary) **89a:76026**

— *see also* **Bristeau, M. O.; et al., 89h:65211** *and* **89m:65081**

Glushchenko, A. A. *see* **Voloshin, V. S.; et al., 89g:76042**

Goldstein, Charles I. Multigrid preconditioners applied to three-dimensional parabolic equation type models. **89b:76021**

Goodman, Jonathan (*with* LeVeque, Randall J.) A geometric approach to high resolution TVD schemes. **89c:65097**

Goutal, N. Résolution des équations de Saint-Venant en régime transcritique par une méthode d'éléments finis: application aux bancs découvrants. (English summary) [Finite-element solution of the shallow-water Saint-Venant equations for a transcritical flow: application to the intertidal flat] **89c:76032**

(Gray, William G.) *see* **Computational methods in water resources, 89m:76002** *and* **89m:76003**

Greengard, Claude (*with* Thomann, Enrique) Singular vortex systems and weak solutions of the Euler equations. **89h:76013**

Griffiths, D. V. *see* **Smith, I. M., 89d:65101**

(Grigolyuk, È. I.) *see* **Brebbia, Carlos Alberto; et al., 89i:65002**

Grove, John *see* **Glimm, James; et al., 89g:76032**

Gruber, Ralf Finite elements in magnetohydrodynamics: ideal linear stability problem. **89b:65264**

Guirguis, Georges H. A third-order boundary condition for the exterior Stokes problem in three dimensions. **89b:65265**

— On the competition between artificial methods and boundary integral methods for the Stokes equations in exterior domains. **89e:65107**

Gunzburger, Max D. (*with* Peterson, Janet S.) Finite-element methods for the streamfunction-vorticity equations: boundary-condition treatments and multiply connected domains. **89g:65142**

Guo, Ben Yu (*with* Cao, Wei Ming) The Fourier pseudospectral method with a restrain operator for the RLW equation. **89c:76039**

(Haario, H.) *see* **Theory and applications of inverse problems, 89c:00029**

Ha-Duong, T. A mathematical analysis of boundary integral equations in the scattering problems of transient waves (invited contribution). **89j:76075**

Halabi, Yahia S. Finite-difference scheme for simulating the two-dimensional dispersion problem in natural channels. (Arabic summary) **89b:65032**

Halpern, Laurence (*with* Trefethen, Lloyd N.) Wide-angle one-way wave equations. **89j:76076**

Hebeker, F.-K. A boundary element spectral method for nonstationary Navier-Stokes flows. (*see* **89c:65004**)

Hemker, P. W. Multigrid and improved accuracy for the Euler equations. **89h:65150**

Hilbert, David An efficient Navier-Stokes solver and its application to fluid flow in elastic tubes. **89j:65062**

Holden, Helge (*with* Holden, L.) On some recent results for an explicit conservation law of mixed type in one dimension. (*see* **89j:35007**)

Holden, L. *see* **Holden, Helge, (89j:35007)**

Hornung, K. *see* **Schick, P., (89j:35007)**

Hózer, Zoltán Numerical solution of the Navier-Stokes equation in 2D two-phase flow. **89c:65098**

Hsiao, G. C. (*with* Porter, John F.) The coupling of BEM and FEM for exterior boundary value problems. (*see* **89f:73003**)

Hussaini, M. Y. *see* **Macaraeg, Michèle G.; et al., (89j:65010)**

Ibrahim, M. A.-K. *see* **El-Gendi, S. E.; et al., 89e:65149**

Il'in, A. V. *see* **Rivkind, V. Ya., 89j:76040**

Infeld, E. (*with* Rowlands, George) Simple model for the nonlinear evolution of the Rayleigh-Taylor instability. **89c:76065**

Ishiguro, Tomiko *see* **Ogawa, Satoru; et al., 89e:65132**

Israeli, Moshe Marching iterative methods for the parabolized and thin layer Navier-Stokes equations. **89b:65304**

Ivanov, M. Ya. (*with* Nigmatullin, R. Z.) S. K. Godunov's implicit scheme of increased accuracy for the numerical integration of Euler equations. (Russian) **89h:65157**

Jacobs, F. J. *see* **Schmidt, G. H., 89j:76083**

Jameson, Antony *see* **Venkatakrishnan, V., 89i:76066**

Jamieson, S. M. (*with* Sloan, D. M.) A Petrov-Galerkin method and boundary approximations for hyperbolic initial boundary-value problems. **89e:65112**

Jirásek, F. (*with* Neustupa, Jiří) The Rothe approximations of solutions to the modified system of equations of motion of viscous compressible fluid and their convergence. (Russian and Bulgarian summaries) **89k:76074**

Karageorghis, Andreas *see* **Phillips, T. N., 89m:65103**

Kazakov, V. A. An approach to the application of B-splines in splitting schemes for the solution of Navier-Stokes equations. (Russian) **89h:65198**

Keller, Jeffrey M. *see* **Rothman, Daniel H., 89i:82005**

Khazanov, M. V. A method for the numerical solution of one-dimensional equations of the hydrodynamics of a two-phase gas-liquid mixture. (Russian) **89i:65087**

Kholodov, A. S. *see* **Magomedov, K. M., 89m:65001**

Kleinman, R. E. (*with* Martin, Paul Andrew) Single integral equations for scattering by a penetrable obstacle. **89c:76090**

Klevtsur, S. V. (*with* Latyshev, K. S.; Chetverushkin, B. N.) A cyclic variant of the α-β-iterative algorithm. **89h:65166**

Koda, Masato Sensitivity analysis of a descriptor distributed parameter system and its application to shape optimization. **89m:93025**

Kogan, V. R. *see* **Braĭlovskaya, V. A., 89k:76025**

Kondyurin, Yu. N. A method for direct statistical modeling of equations in hydrodynamics. (Russian) **89j:82040**

Kononenko, G. N. (*with* Fomicheva, T. G.) A numerical algorithm for solving problems of geochemical hydrodynamics. (Russian) **89h:76037**

(Korneĭchuk, L. G.) *see* **Brebbia, Carlos Alberto; et al., 89i:65002**

Korshiya, T. K. (*with* Lyubimov, B. Ya.) On the construction and convergence of additive models for a class of two-dimensional problems of magnetohydrodynamics. (Russian) (*see* **89j:00031**)

Kosachevskaya, L. L. (*with* Kosachevskiĭ, L. Ya.) Approximate solution of a boundary value problem with an unknown boundary for nonisothermal filtration of a non-Newtonian fluid. (Russian) (*see* **89j:00031**)

Kosachevskiĭ, L. Ya. *see* **Kosachevskaya, L. L., (89j:00031)**

(de Kosinsky, V.) *see* **Computer methods and water resources, 89g:76003c**

Kreiss, Gunilla Convergence to steady state of solutions of the Euler equations. I. **89b:65296**

Kress, Michael E. Back-averaging: an accelerated iterative method for simulating plasma diffusion. **89c:76119**

Kretzschmar, H. *see* **Kreul, R., (89j:31001)**

Kreul, R. (*with* Kretzschmar, H.) On mathematical modelling of non-Newtonian flow by perturbation methods. (*see* **89j:31001**)

Krylov, S. F. *see* **Gasilov, V. A.; et al., 89f:65093**

Kucera, Adam (*with* Blake, John) Computational modelling of cavitation bubbles near boundaries. **89j:76029**

Kuznetsova, O. F. *see* **Enikeev, I. Kh.; et al., 89c:76104**

Latyshev, K. S. *see* **Klevtsur, S. V.; et al., 89h:65166**

Lee, Ding (*with* McDaniel, S. T.) Ocean acoustic propagation by finite difference methods. **89b:65204**

van Leer, B. *see* **Roe, P. L., (89j:76004)**

Lefebvre, Dominique *see* **Zienkiewicz, O. C., 89h:73003**

Le Floch, Philippe *see* **Dubois, François, (89j:35007)**

Leland, R. W. (*with* Rollett, J. S.) Evaluation of a parallel conjugate gradient algorithm. (*see* **89j:76004**)

Lenoir, Marc André (*with* Vullierme-Ledard, M.) Numerical computation of scattering frequencies. **89k:76084**

— (*with* Tounsi, A.) The localized finite element method and its application to the two-dimensional sea-keeping problem. **89k:65138**

LeVeque, Randall J. *see* **Goodman, Jonathan, 89c:65097**

Lifanov, I. K. *see* **Aparinov, V. A.; et al., 89k:76023**

Lifshits, Yu. B. (*with* Shagaev, A. A.) A projection-grid scheme for calculating the transonic flow around a profile. (Russian) **89j:76062**

Lindquist, W. Brent *see* **Glimm, James; et al., 89g:76032**

Line, A. *see* **Banat, M.; et al., (89g:76003d)**

Liu, Meng-Ru *see* **Malkus, David S.; et al., 89d:73038**

Liu, Y. C. *see* **Zienkiewicz, O. C.; et al., (89c:65004)**

Liu, Ying Xi (*with* Shi, Guang Yu; Tang, Li Min) On the finite element analysis of incompressible fluid flow incorporating equal order pressure and velocity interpolation. (Chinese. English summary) (Not in MR)

Livi, R. *see* **Bagnoli, F.; et al., (89g:58144)**

Logan, W. T. (*with* Visscher, P. B.) Extraction of transport coefficients from correlation functions. **89k:82064**

Lücke, M. Convection in binary mixtures: propagating and standing patterns. (*see* **89j:82002**)

Lundgren, T. S. (*with* Mansour, N. N.) Oscillations of drops in zero gravity with weak viscous effects. **89m:76031**

Lyashko, I. I. (*with* Skopetskiĭ, V. V.; Deĭneka, V. S.) Choice of the iterative parameter for some two-layer iterative processes used in the numerical solution of problems of pressure-free filtration. (Russian) **89e:76077**

Lyubimov, B. Ya. *see* **Korshiya, T. K., (89j:00031)**

Ma, Yan Wen *see* **Fu, De Xun, 89i:65134**

Macaraeg, Michèle G. (*with* Streett, Craig L.; Hussaini, M. Y.) A spectral multi-domain technique applied to high-speed chemically reacting flows. (*see* **89j:65010**)

MacCormack, Robert W. Numerical methods for the Navier-Stokes equations. **89c:65100**

Maday, Yvon *see* **Bernardi, Christine; et al., 89f:65118** *and* **89j:76041**

Magomedov, K. M. (*with* Kholodov, A. S.) ★ Сеточно-характеристические численные методы. (Russian) [Difference-characteristic numerical methods] **89m:65001**

Malkus, David S. (*with* Plesha, Michael E.; Liu, Meng-Ru) Reversed stability conditions in transient finite element analysis. **89d:73038**

Mansour, N. N. *see* **Lundgren, T. S., 89m:76031**

Mantel, B. *see* **Bristeau, M. O.; et al., 89h:65211**

Marchuk, G. I. ★ Методы расщепления и переменных направлений. (Russian) [Splitting and alternating directions methods] **89g:65005**

Martin, Paul Andrew *see* **Kleinman, R. E., 89c:76090**

Masbernat, L. *see* **Banat, M.; et al., (89g:76003d)**

McBryan, Oliver A. *see* **Glimm, James; et al., 89g:76032**

McDaniel, S. T. *see* **Lee, Ding, 89b:65204**

Métivet, Brigitte *see* **Bernardi, Christine; et al., 89f:65118**

Mikhaĭlov, A. A. *see* **Aparinov, V. A.; et al., 89k:76023**

Miller, Guthrie (*with* Faber, V.; White, Andrew B., Jr.) Finding plasma equilibria with magnetic islands. **89i:76103**

Miller, Keith *see* **Carlson, Neil, 89i:65094**

Minenko, A. S. A problem of potential flow of a fluid with a free boundary. (Russian) **89a:76013**

Minev, P. D. *see* **Shopov, Petr Ĭ., 89f:76033**

Missaghi, M. *see* **Bradley, Derek; et al., 89d:76029**

Montgomery, David (*with* Doolen, Gary D.) Two cellular automata for plasma computations. **89a:76058**

Morgan, Kenneth *see* **Zienkiewicz, O. C.; et al., (89c:65004)**

Morton, K. W. Finite element methods for hyperbolic equations. **89c:65106**

— (*with* Childs, P. N.) Characteristic Galerkin methods for hyperbolic systems. (*see* **89j:35007**)

— *see also* **Numerical methods for fluid dynamics, 89j:76004**

Mukhidinova, R. N. *see* **Sadykov, M. K., 89c:76101**

Mulder, Wim A. Analysis of a multigrid method for the Euler equations of gas dynamics in two dimensions. **89j:65084**

Namburu, Raju R. *see* **Tamma, Kumar K., 89j:73008**

Nayfeh, Ali Hasan Numerical-perturbation methods in mechanics. **89i:70037**

Neta, B. (*with* DeVito, C. L.) The transfer function analysis of various schemes for the two-dimensional shallow-water equations. **89f:76024**

Neustupa, Jiří *see* **Jirásek, F., 89k:76074**

Nicolaides, R. A. *see* **Chiu, Chichia, 89c:65117**

Nicolini, Marco *see* **Franceschini, Valter; et al., 89f:76032**

Nigmatullin, R. Z. *see* **Ivanov, M. Ya., 89h:65157**

Nochetto, Ricardo H. *see* **Durán, R.; et al., 89b:65261**

Oden, J. T. Adaptive finite element methods in complex flow problems. (*see* **89c:65004**)

— *see also* **Wu, Shen Rong^2, 89a:76027**

Ogawa, Satoru (*with* Ishiguro, Tomiko; Takakura, Yoko) Hyperbolic grid generation scheme for simulating flow about three-dimensional complex configuration. **89e:65132**

Onishi, K. Boundary element methods applied to transport phenomena. (*see* **89g:76003d**)

Orszag, Steven A. *see* **Domaradzki, J. Andrzej, 89c:76070**

Osipov, A. A. (*with* Reent, K. S.) The method of integral equations for calculating the nonstationary aerodynamic characteristics of a rotating circular blade row. (Russian) **89j:76060**

(Ouazar, D.) *see* **Computer methods and water resources, 89g:76003a; 89g:76003b; 89g:76003c** *and* **89g:76003d**

Parés, Carlos Un traitement faible en éléments finis de la condition de glissement sur une paroi pour les équations de Navier-Stokes. (English summary) [A weak treatment of the slip boundary condition in a finite element approximation of Stokes and Navier-Stokes equations] **89h:65186**

Pasquarelli, F. (*with* Quarteroni, A.; Sacchi Landriani, G.) Spectral approximations of the Stokes problem by divergence-free functions. **89k:76035**

Patiño, Jorge A fully implicit scheme for multiphase flow in one-dimensional porous media. **89k:76090**

Pearson, Carl E. Upwind and downwind effects of numerical approximations to wave equations. **89d:65086**

— *see also* **Cordova, Jeffrey Q., 89h:76023**

Peraire, J. *see* **Zienkiewicz, O. C.; et al., (89c:65004)**

Périaux, Jacques *see* **Bristeau, M. O.; et al., 89h:65211** *and* **89m:65081**

Peterson, Janet S. *see* **Gunzburger, Max D., 89g:65142**

Phillips, T. N. (*with* Karageorghis, Andreas) Efficient direct methods for solving the spectral collocation equations for Stokes flow in rectangularly decomposable domains. **89m:65103**

(Pinder, G. F.) *see* **Computational methods in water resources, 89m:76002** *and* **89m:76003**

Plesha, Michael E. *see* **Malkus, David S.; et al., 89d:73038**

Polyanskii, V. A. *see* **Enikeev, I. Kh.; et al., 89c:76104**

Porter, John F. *see* **Hsiao, G. C., (89f:73003)**

Poshekhonov, Yu. Yu. *see* **Degtyarev, L. M.; et al., 89a:76055**

Priĭmak, V. G. (*with* Rozhdestvenskiĭ, B. L.; Simakin, I. N.) Description of turbulent flows by nonstationary solutions of Navier-Stokes equations. (Russian) (*see* **89j:00008**)

Prostomolotov, A. I. (*with* Fryazinov, I. V.) Techniques and program realization for solving spatial problems in hydrodynamics. (Russian) **89c:65134**

Qin, Zeng Fu On the numerical solution of steady Burgers' equation. (*see* **89j:65008**)

Quartapelle, L. *see* **Donéa, J.; et al., 89g:65140** *and* **(89j:76004)**

Quarteroni, A. *see* **Pasquarelli, F.; et al., 89k:76035**

Reddy, B. D. Variational and numerical aspects of eigenvalue problems in the stability of fluids. (*see* **89c:65004**)

Reent, K. S. *see* **Osipov, A. A., 89j:76060**

Rivet, Jean-Pierre Green-Kubo formalism for lattice gas hydrodynamics and Monte-Carlo evaluation of shear viscosities. **89j:82095**

— *see also* **Frisch, Uriel, 89k:82048**

Rivkind, V. Ya. (*with* Il'in, A. V.) An approximate method for solving a problem of the nonisothermic flow of a fluid layer. (Russian) **89j:76040**

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Roberts, L. J. *see* **Sorbie, K. S., (89j:76003)**

Roberts, Stephen Convergence of a random walk method for the Burgers equation. **89i:65090**

(Rodin, E. Y.) *see* **Lee, Ding, 89b:65204**

Roe, P. L. (*with* van Leer, B.) Nonexistence, nonuniqueness and slow convergence in discrete conservation laws. (*see* **89j:76004**)

Rollett, J. S. *see* **Leland, R. W., (89j:76004)**

Rothman, Daniel H. (*with* Keller, Jeffrey M.) Immiscible cellular-automaton fluids. **89i:82005**

Rowlands, George *see* **Infeld, E., 89c:76065**

Rozhdestvenskiĭ, B. L. *see* **Priĭmak, V. G.; et al., (89j:00008)**

Ruffo, Stefano *see* **Bagnoli, F.; et al., (89g:58144)**

Rychkov, A. D. ★ Математическое моделирование газодинамических процессов в каналах и соплах. (Russian) [Mathematical modeling of gas-dynamic processes in channels and nozzles] **89h:76001**

Sacchi Landriani, G. *see* **Pasquarelli, F.; et al., 89k:76035**

Sadykov, M. K. Construction and investigation of difference schemes for solving a boundary value problem of nonlinear filtration in cracked-porous media. (Russian) **89h:76041**

— (*with* Mukhidinova, R. N.) Investigation of a nonlinear boundary value problem of filtration in a three-layer stratum. (Russian) **89c:76101**

Schick, P. (*with* Hornung, K.) Nonstationary shock wave generation in droplet vapour mixtures. (*see* **89j:35007**)

Schmidt, G. H. (*with* Jacobs, F. J.) Adaptive local grid refinement and multi-grid in numerical reservoir simulation. **89j:76083**

Schwendeman, D. W. A numerical scheme for shock propagation in three dimensions. **89c:76077**

Selmin, V. *see* **Donéa, J.; et al., 89g:65140** *and* **(89j:76004)**

Semushin, S. A. *see* **Gavrilyuk, V. N., 89j:65064**

Shagaev, A. A. *see* **Lifshits, Yu. B., 89j:76062**

Shamardan, A. B. *see* **El-Gendi, S. E.; et al., 89e:65149**

Shashkov, M. Yu. *see* **Solov'ëv, A. V., 89b:65238**

Sheshukov, E. G. *see* **Voloshin, V. S.; et al., 89g:76042**

Shi, Guang Yu *see* **Liu, Ying Xi; et al.,** (Not in MR)

Shih, Tom I-Ping Mathematical models for the numerical study of turbulent flows. (Chinese summary) **89k:76066**

Shopov, Petr Ĭ. (*with* Minev, P. D.) Numerical solution of problems of viscous fluids with free boundaries. (Bulgarian. English and Russian summaries) **89f:76033**

Shurgal'skiĭ, È. F. *see* **Enikeev, I. Kh.; et al., 89c:76104**

Simakin, I. N. *see* **Priĭmak, V. G.; et al., (89j:00008)**

Singh, Gian Sundar *see* **Bristeau, M. O.; et al., 89h:65211**

Skhirtladze, N. M. *see* **Bochorishvili, R. D., 89g:76034**

Skopetskiĭ, V. V. *see* **Lyashko, I. I.; et al., 89e:76077**

Sloan, D. M. *see* **Jamieson, S. M., 89e:65112**

Smagulov, Sh. (*with* Dairbaeva, G.) Estimates for a difference solution of a scheme of "cross" type for a model of a viscous heat-conducting gas. (Russian) **89i:76077**

— (*with* Zhanasbaeva, U. B.) Estimates for the solution of a difference scheme for an equation of a barotropic gas with variable viscosity. **89f:76062**

Smith, I. M. (*with* Griffiths, D. V.) ★ Programming the finite element method. **89d:65101**

Sofronov, I. L. A rapidly converging method for determining stationary solutions of Euler equations. (Russian) **89g:65159**

Solov'ëv, A. V. (*with* Shashkov, M. Yu.) A difference scheme for the method of "Dirichlet particles" in cylindrical coordinates that preserves the plane, cylindrical and spherical symmetry of the gas-dynamic flows. (Russian) **89b:65238**

Sorarrain, O. M. *see* **Darderes, Enrique A.; et al., 89f:76077**

Sorbie, K. S. (*with* Roberts, L. J.) High accuracy solutions for two phase multicomponent flow in porous media. (*see* **89j:76003**)

Sorokovikova, O. S. *see* **Gasilov, V. A.; et al., 89f:65093**

Souissi, A. *see* **Fortin, Michel, 89k:76045**

Spekreijse, Stefan ★ Multigrid solution of the steady Euler equations. **89i:65109**

— Multigrid solution of the steady Euler equations. **89f:65136**

Starling, Felipe *see* **Bamberger, A., 89j:76073**

Štikonas, Artūras A difference scheme for equations of the symmetrical motion of a viscous barotropic gas. (Russian. English and Lithuanian summaries) **89m:65092**

Streett, Craig L. *see* **Macaraeg, Michèle G.; et al., (89j:65010)**

(Strikwerda, John C.) *see* **Roache, Patrick J., 89k:76036**

Su, Wenhan *see* **Cebeci, Tuncer, 89m:76029**

Succi, S. *see* **Appert, K.; et al., 89f:65117**

Sudakov, G. G. *see* **Voevodin, A. V., 89e:76017**

Takakura, Yoko *see* **Ogawa, Satoru; et al., 89e:65132**

Tamma, Kumar K. (*with* Namburu, Raju R.) A new finite element based Lax-Wendroff/Taylor-Galerkin methodology for computational dynamics. **89j:73008**

Tang, Li Min *see* **Liu, Ying Xi; et al.,** (Not in MR)

Telles, J. C. F. *see* **Brebbia, Carlos Alberto; et al., 89i:65002**

Thomann, Enrique *see* **Greengard, Claude, 89h:76013**

Thornton, Earl A. (*with* Dechaumphai, Pramote) Finite element methodology for integrated flow-thermal-structural analysis. **89h:80001**

Tkachenko, S. I. *see* **Gasilov, V. A.; et al., 89f:65093**

Tounsi, A. *see* **Lenoir, Marc André, 89k:65138**

Touzani, Rachid Implementation of the discontinuous finite element method for hyperbolic equations. **89d:65102**

Trefethen, Lloyd N. *see* **Halpern, Laurence, 89j:76076**

Tryggvason, Grétar *see* **Glimm, James; et al., 89g:76032** *and* **Aref, H., 89k:76047**

Turkington, Bruce *see* **Eydeland, Alexander, 89j:76037**

Vaclavik, J. *see* **Appert, K.; et al., 89f:65117**

Vakul'chik, P. A. Characteristic difference scheme for a system of equations of three-dimensional gas dynamics. (Russian) **89b:65305**

— Stability of the characteristic difference scheme for a system of equations in two-dimensional gas dynamics. (Russian. English summary) **89c:76085**

Venkatakrishnan, V. (*with* Jameson, Antony) Computation of unsteady transonic flows by the solution of Euler equations. **89i:76066**

Villard, L. *see* **Appert, K.; et al., 89f:65117**

Visscher, P. B. *see* **Logan, W. T., 89k:82064**

Voevodin, A. V. (*with* Sudakov, G. G.) Application of projection methods in airfoil theory. (Russian) **89e:76017**

Volevich, L. R. *see* **Aptekarev, A. I., 89i:76065** *and* **89m:76049**

Voloshin, V. S. (*with* Glushchenko, A. A.; Sheshukov, E. G.) Approximate analytic solution of a nonlinear boundary value problem of filtration theory. (Russian) **89g:76042**

Vullierme-Ledard, M. *see* **Lenoir, Marc André, 89k:76084**

Walkington, Noel J. Acoustic wave propagation through flows with vorticity. **89h:76034**

Wang, Jun Ping *see* **Durán, R.; et al., 89b:65261** *and* **Douglas, Jim, Jr., 89j:65069**

Wen, Xian Yun (*with* Wu, Chi Gong) Boundary integral equations. Inverse method for free surface gravity flows. **89f:76027**

White, Andrew B., Jr. *see* **Miller, Guthrie; et al., 89i:76103**

Wiberg, Nils-Erik (*with* Frykestig, Jan) Adaptive and hierarchical time integration of convection-diffusion problems. (*see* **89c:65004**)

— Adaptive and hierarchical weighted residual and least-squares time integration of convection-diffusion problems. **89e:76075**

Wilcox, David C. Reassessment of the scale-determining equation for advanced turbulence models. **89k:76062**

— Multiscale model for turbulent flows. **89k:76063**

Williams, Anthony D. The development of an intelligent interface to a computational fluid dynamics flow-solver code. **89g:76001**

Wrobel, L. C. *see* **Brebbia, Carlos Alberto; et al., 89i:65002**

Wu, Chi Gong *see* **Wen, Xian Yun, 89f:76027**

Wu, Hua Mo (*with* Wu, Yu Hua^2) Contour dynamics methods for discontinuous vortical flows. **89a:76022**

Wu, Shen Rong² (*with* Oden, J. T.) Convergence and error estimates for finite element solutions of elastohydrodynamic lubrication. **89a:76027**
Wu, Yu Hua² *see* **Wu, Hua Mo, 89a:76022**
Ying, Long An Convergence study for viscous splitting in bounded domains. **89h:65163**
— The assumed deviatoric stress, pressure, velocity mixed finite element method with nonlinear momentum balance equation. (Chinese summary) **89e:65126**
Zabolotnyĭ, S. N. *see* **Demchenko, V. F.; et al., (89f:00005)**
Zhanasbaeva, U. B. *see* **Smagulov, Sh., 89f:76062**
Zhu, J. Z. *see* **Zienkiewicz, O. C.; et al., (89c:65004)**
Zhuk, V. I. On the flow around a permeable section of a wall in a region of free interaction. (Russian) **89i:76067**
Zienkiewicz, O. C. (*with* Lefebvre, Dominique) Mixed methods for F.E.M. and the patch test; some recent developments. **89h:73003**
— (*with* Zhu, J. Z.; Liu, Y. C.; Morgan, Kenneth; Peraire, J.) Error estimates and adaptivity from elasticity to high speed compressible flow. (*see* **89c:65004**)
Zijl, Wouter Generalized potential flow theory and direct calculation of velocities applied to the numerical solution of the Navier-Stokes and the Boussinesq equations. **89c:76047**
Zlotnik, A. A. *see* **Amosov, A. A., 89g:65111**

Items listed otherwise than by author

Advanced boundary element methods ★ Advanced boundary element methods. **89b:65009**
Cambridge, MA ★ Computational methods in water resources. Vol. 1. **89m:76002**
— ★ Computational methods in water resources. Vol. 2. **89m:76003**
Computational methods in water resources ★ Computational methods in water resources. Vol. 1. **89m:76002**
— ★ Computational methods in water resources. Vol. 2. **89m:76003**
Computer methods and water resources ★ Computer methods and water resources. Vol. 1. **89g:76003a**
— ★ Computer methods and water resources. Vol. 2. **89g:76003b**
— ★ Computer methods and water resources. Vol. 3. **89g:76003c**
— ★ Computer methods and water resources. Vol. 5. **89g:76003d**
Conference:
  Computational Methods in Water Resources ★ Computational methods in water resources. Vol. 1. **89m:76002**
  — ★ Computational methods in water resources. Vol. 2. **89m:76003**
  Computer Methods and Water Resources ★ Computer methods and water resources. Vol. 1. **89g:76003a**
  — ★ Computer methods and water resources. Vol. 2. **89g:76003b**
  — ★ Computer methods and water resources. Vol. 3. **89g:76003c**
  — ★ Computer methods and water resources. Vol. 5. **89g:76003d**
  Numerical Methods for Fluid Dynamics ★ Numerical methods for fluid dynamics. III. **89j:76004**
Helsinki ★ Theory and applications of inverse problems. **89c:00029**
IUTAM Symposium:
  Advanced Boundary Element Methods ★ Advanced boundary element methods. **89b:65009**
Numerical methods for fluid dynamics ★ Numerical methods for fluid dynamics. III. **89j:76004**
Oxford ★ Numerical methods for fluid dynamics. III. **89j:76004**
Rabat ★ Computer methods and water resources. Vol. 1. **89g:76003a**
— ★ Computer methods and water resources. Vol. 2. **89g:76003b**
— ★ Computer methods and water resources. Vol. 3. **89g:76003c**
— ★ Computer methods and water resources. Vol. 5. **89g:76003d**
San Antonio, Tex. ★ Advanced boundary element methods. **89b:65009**
Symposium:
  Theory and Applications of Inverse Problems ★ Theory and applications of inverse problems. **89c:00029**
Theory and applications of inverse problems ★ Theory and applications of inverse problems. **89c:00029**

76Axx Foundations, constitutive equations, rheology [see also 35L65]

76A02 Foundations

Dezin, A. A. Discrete analogues of relations of mathematical hydrodynamics. **89i:76020**
Gouin, Henri Équation du mouvement des fluides parfaits de grade n exprimée sous une forme thermodynamique. (English summary) [Thermodynamical form of the equation of motion for perfect fluids of grade n] **89m:76008**
Mathew, George (*with* Vedan, M. J.) Variational principle and conservation laws for nonbarotropic flows. **89m:76009**
Truesdell, C. On the vorticity numbers of monotonous motions. **89j:76028**
Vedan, M. J. *see* **Mathew, George, 89m:76009**

Items with secondary classifications in 76A02

Baranov, Yu. S. (*with* Gliklikh, Yu. E.) A mechanical constraint on the group of volume-preserving diffeomorphisms. **89m:58033**
Cendra, Hernan (*with* Marsden, Jerrold E.) Lin constraints, Clebsch potentials and variational principles. **89b:58060**
Drew, Donald A. Constitutive equations and the entropy inequality for multiphase flows. (*see* **89f:73004**)
Gliklikh, Yu. E. *see* **Baranov, Yu. S., 89m:58033**
Green, A. E. (*with* Naghdi, P. M.) Further developments in a nonlinear theory of water waves for finite and infinite depths. **89c:76033**
Gurtin, Morton E. (*with* Matano, Hiroshi) On the structure of equilibrium phase transitions within the gradient theory of fluids. **89j:49015**
Marsden, Jerrold E. *see* **Cendra, Hernan, 89b:58060**
Matano, Hiroshi *see* **Gurtin, Morton E., 89j:49015**
Monterde, J. *see* **Montesinos Amilibia, Angel, 89k:58073**
Montesinos Amilibia, Angel (*with* Monterde, J.) Abstract fluids as differential forms. **89k:58073**
Naghdi, P. M. *see* **Green, A. E., 89c:76033**
Sternberg, Peter The effect of a singular perturbation on nonconvex variational problems. **89h:49007**

76A05 Non-Newtonian fluids

Abid, M. Efficient solution of problems of steady flow of a viscous incompressible micropolar fluid for a ball. (Russian. English and Georgian summaries) **89a:76010**
Cazacu, M. D. Thermodynamic model of the onset of cavitation in the flow of a viscous fluid in a channel. (Not in MR)
Förste, J. Instationäre Strömung einer kompressiblen zähen Flüssigkeit mit dehnbarer Mikrostruktur. [Nonstationary flow of a compressible viscous fluid with extendable microstructure] **89a:76011**
Kretzschmar, H. *see* **Kreul, R., (89j:31001)**
Kreul, R. (*with* Kretzschmar, H.) On mathematical modelling of non-Newtonian flow by perturbation methods. (*see* **89j:31001**)
Renardy, Michael Mathematical analysis of viscoelastic flows. (*see* **89g:76002**)
Sobolevskiĭ, P. E. Stability of motion of a nonlinearly viscous fluid. (Russian) **89f:76015**
Ţigoiu, Victor Propagation of waves and thermodynamics for fluids of the third grade. (Romanian. English summary) **89b:76003**

Items with secondary classifications in 76A05

Amrouche, Chérif (*with* Girault, Vivette) Une méthode d'approximation mixte des équations des fluides non newtoniens de troisième grade. (English summary) [Mixed approximations of the equations of non-Newtonian fluids of grade three] **89h:65210**
Arnol'd, V. I. The asymptotic Hopf invariant and its applications. **89m:58053**
Easwaran, C. V. *see* **Ramkissoon, H.; et al., 89e:76014**
El Hachimi, Abderrahmane (*with* de Thélin, François) Supersolutions and stabilization of the solutions of the equation: $(\partial u/\partial t) - \mathrm{div}(|\nabla u|^{p-2}\nabla u) = f(x,u)$. **89k:35076**
Girault, Vivette *see* **Amrouche, Chérif, 89h:65210**
Gouin, Henri Équation du mouvement des fluides parfaits de grade n exprimée sous une forme thermodynamique. (English summary) [Thermodynamical form of the equation of motion for perfect fluids of grade n] **89m:76008**
Han, Shi Fang Eigenvalue theory of stretching fluid sheets. **89c:76021**
Kosachevskaya, L. L. (*with* Kosachevskiĭ, L. Ya.) Approximate solution of a boundary value problem with an unknown boundary for nonisothermal filtration of a non-Newtonian fluid. (Russian) (*see* **89j:00031**)
Kosachevskiĭ, L. Ya. *see* **Kosachevskaya, L. L., (89j:00031)**
Majumdar, S. R. *see* **Ramkissoon, H.; et al., 89e:76014**
Oskolkov, A. P. Initial-boundary value problems for equations of motion of Kelvin-Voight fluids and Oldroyd fluids. (Russian) **89k:35186**
Ramkissoon, H. (*with* Easwaran, C. V.; Majumdar, S. R.) On the uniqueness of exterior boundary value problems in viscoelastic fluids. **89e:76014**
Sobotka, Zdeněk Different viscosities at the positive and negative shear flow of structured liquids. (Not in MR)
de Thélin, François *see* **El Hachimi, Abderrahmane, 89k:35076**
Wierzcholski, K. Estimation and integration of the basic equations for the non-Newtonian lubricant flow in the journal-thrust-bearing gap with nonmonotonic curvilinear generating line of journal surface. **89j:76042**

76A10 Viscoelastic fluids

Coleman, Bernard D. Approximation of fluids with vanishing memory in slow motions. (Italian. English summary) **89e:76013**
Cotsiolis, Athanase *see* **Karazeeva, N. A.; et al., 89c:76022**
Datta, Nanigopal (*with* Jana, Rabindra Nath) Flow and heat transfer in an elastico-viscous liquid over an oscillating plate in a rotating frame. (Turkish summary) **89i:76021**
Easwaran, C. V. *see* **Ramkissoon, H.; et al., 89e:76014**
Fraenkel, L. E. Some results for a linear, partly hyperbolic model of viscoelastic flow past a plate. (*see* **89f:73005**)
Han, Shi Fang Eigenvalue theory of stretching fluid sheets. **89c:76021**
Jana, Rabindra Nath *see* **Datta, Nanigopal, 89i:76021**
Karazeeva, N. A. (*with* Cotsiolis, Athanase; Oskolkov, A. P.) A dynamical system generated by the equations of the motion of Oldroyd fluids of order L. (Russian. English summary) **89c:76022**
Leugering, G. Time optimal boundary controllability of a simple linear viscoelastic liquid. **89a:76012**
Majumdar, S. R. *see* **Ramkissoon, H.; et al., 89e:76014**
Oskolkov, A. P. *see* **Karazeeva, N. A.; et al., 89c:76022**
Ramkissoon, H. (*with* Easwaran, C. V.; Majumdar, S. R.) On the uniqueness of exterior boundary value problems in viscoelastic fluids. **89e:76014**
Renardy, Michael Existence of steady flows of viscoelastic fluids and the question of inflow boundary conditions. (*see* **89f:73004**)
— Inflow boundary conditions for steady flows of viscoelastic fluids with differential constitutive laws. **89i:76022**
— Existence of slow steady flows of viscoelastic fluids of integral type. **89f:76016**
Sobotka, Zdeněk Different viscosities at the positive and negative shear flow of structured liquids. (Not in MR)
Sviridyuk, G. A. A model for the dynamics of an incompressible viscoelastic fluid. **89f:76017**

Items with secondary classifications in 76A10

Akhmatov, M. M. *see* **Oskolkov, A. P.; et al., 89f:35188**
Camarero, Ricardo *see* **Pelletier, Dominique; et al., 89j:76024**
Cotsiolis, Athanase *see* **Oskolkov, A. P.; et al., 89f:35188**
Fortin, Andre *see* **Pelletier, Dominique; et al., 89j:76024**
Hrusa, William J. *see* **Renardy, Michael; et al., 89b:35134**

Klimov, V. S. (*with* Semko, E. R.) Solvability of boundary value problems in the mechanics of viscoplastic media. **89j:35118**
Misra, J. C. (*with* Sahu, B. K.) Flow through blood vessels under the action of a periodic acceleration field. A mathematical analysis. **89j:92034**
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Oskolkov, A. P. (*with* Akhmatov, M. M.; Cotsiolis, Athanase) The equations of motion of linear viscoelastic fluids and the equations of filtration of fluids with delay. (Russian. English summary) **89f:35188**
Pelletier, Dominique (*with* Fortin, Andre; Camarero, Ricardo) Are FEM solutions of incompressible flows really incompressible? (or how simple flows can cause headaches!). **89j:76024**
Renardy, Michael (*with* Hrusa, William J.; Nohel, John A.) ★ Mathematical problems in viscoelasticity. **89b:35134**
— Coercive estimates and existence of solutions for a model of one-dimensional viscoelasticity with a nonintegrable memory function. **89k:45009**
Rodríguez, Rosalío F. (*with* Salinas-Rodríguez, E.) Brownian motion and correlation functions in a viscoelastic fluid. **89d:82090**
Sahu, B. K. *see* **Misra, J. C., 89j:92034**
Salinas-Rodríguez, E. *see* **Rodríguez, Rosalío F., 89d:82090**
Semko, E. R. *see* **Klimov, V. S., 89j:35118**
Sultanov, F. M. (*with* Yarin, A. L.) On the Rayleigh-Taylor instability of inflated polymer films. **89f:76044**
Yarin, A. L. *see* **Sultanov, F. M., 89f:76044**

76A99 None of the above, but in this section

Drouot, R. (*with* Maugin, Gérard A.) Polyelectrolyte solutions: equilibrium conformations of the microstructure without and with external fields. **89c:76023**
Grmela, Miroslav Hamiltonian dynamics of incompressible elastic fluids. **89e:76015**
Hicks, D. (*with* Kuttler, Kenneth) Continuum and discrete hydrodynamical models and globally well-posed problems. **89g:76012**
Kleinstein, Gerald G. On the nonpersistence of irrotational motion in a viscous heat-conducting fluid. **89c:76024**
Kuttler, Kenneth *see* **Hicks, D., 89g:76012**
Mathew, George (*with* Vedan, M. J.) A note on generalised circulation theorem. (Not in MR)
Maugin, Gérard A. *see* **Drouot, R., 89c:76023**
Mayné, G. Poiseuille flows of incompressible simple fluids. (*see* **89g:58004**)
Pal, S. K. *see* **Sengupta, P. R., 89h:76008**
Sengupta, P. R. (*with* Pal, S. K.) Unsteady flow of micropolar fluid past a rotating cylinder. **89h:76008**
Vedan, M. J. *see* **Mathew, George**, (Not in MR)

Items with secondary classifications in 76A99

Felderhof, B. U. Many-body hydrodynamic interactions in suspensions. **89i:76040**
Holm, Darryl D. Hamiltonian structure for two-dimensional hydrodynamics with nonlinear dispersion. **89f:76023**
Samohýl, Ivan ★ Thermodynamics of irreversible processes in fluid mixtures. **89k:80011**
Samokhin, V. N. A system of equations of a boundary layer of a conducting pseudoplastic fluid in a magnetic field. (Russian) **89g:76046**
Visintin, A. Surface tension effects in phase transition. **89m:82021**
Vladimirov, V. A. ★ Групповая классификация уравнений гидродинамики реагирующих и релаксирующих сред. (Russian) [Group-theoretic classification of equations of hydrodynamics of reacting and relaxing media] **89e:80018**

76Bxx Incompressible inviscid fluids, potential theory

76B05 Airfoil theory

Arshinskii, L. V. *see* **Borisyuk, M. N., 89c:76025**
Borisyuk, M. N. (*with* Arshinskii, L. V.) Extremal problems in quadrupole wing theory. (Russian) **89c:76025**
Burns, John A. (*with* Cliff, Eugene M.; Herdman, Terry L.; Turi, Janos) On integral transforms appearing in the derivation of the equations of an aeroelastic system. **89g:76013**
Carabineanu, A. Application of conformal transformation methods in the theory of thin airfoils. (Romanian) **89e:76016**
Cliff, Eugene M. *see* **Burns, John A.; et al., 89g:76013**
Elizarov, A. M. Some extremal problems in wing theory. **89m:76010**
Herdman, Terry L. *see* **Burns, John A.; et al., 89g:76013**
Sudakov, G. G. *see* **Voevodin, A. V., 89e:76017**
Turi, Janos *see* **Burns, John A.; et al., 89g:76013**
Urbach, H. P. A functional analytic approach to an optimization problem of hydrodynamic propulsion. (*see* **89g:58004**)
Voevodin, A. V. (*with* Sudakov, G. G.) Application of projection methods in airfoil theory. (Russian) **89e:76017**

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Ershov, B. A. The effect of the vortex wake on the perturbed motion of an elastic profile. (Russian. English summary) **89j:73059**
Golberg, Michael A. A note on a superconvergence result for the generalized airfoil equation. **89f:65141**
Manoranjan, V. S. (*with* Ortega, T.; Sanz-Serna, J. M.) Soliton and antisoliton interactions in the "good" Boussinesq equation. **89m:35196**
Ortega, T. *see* **Manoranjan, V. S.; et al., 89m:35196**
Sanz-Serna, J. M. *see* **Manoranjan, V. S.; et al., 89m:35196**
Schippers, H. Multigrid methods in boundary element calculations (invited contribution). **89i:76016**
Struminskiĭ, V. V. The theory of flow over high-aspect-ratio yawed and swept wings. **89j:76066**

76B10 Jets and cavities, cavitation, free-streamline theory, water-entry problems, hydrofoil theory, sloshing

Benharbit, A. *see* **Obaid, S. A., 89f:76020**
Blake, John The Kelvin impulse: application to cavitation bubble dynamics. **89m:76011**
— *see also* **Kucera, Adam, 89j:76029**
Borodich, F. M. Similarity in a three-dimensional problem of the penetration of rigid bodies into an ideal incompressible fluid. **89m:76012**
Cox, E. A. *see* **Reynolds, D. W., 89k:76011**
Dewynne, J. N. (*with* Howison, S. D.; Ockendon, J. R.; Morland, L. C.; Watson, E. J.) Slot suction from inviscid channel flow. **89m:76013**
Doppel, K. (*with* Schomburg, B.) On a weakly formulated exterior problem from linear hydrodynamics. **89i:76023**
Hocking, G. C. Infinite Froude number solutions to the problem of a submerged source or sink. **89c:76026**
Howison, S. D. *see* **Dewynne, J. N.; et al., 89m:76013**
Keller, J. B. *see* **Vanden-Broeck, J.-M., 89k:76013**
Kucera, Adam (*with* Blake, John) Computational modelling of cavitation bubbles near boundaries. **89j:76029**
Lukovskiĭ, I. A. (*with* Shvets, G. A.) A variational algorithm for determining the hydrodynamic characteristics of a bounded volume of a fluid in domains of nonsymmetric shape. (Russian) **89f:76018**
Maklakov, D. V. On the maximal drag of a curvilinear obstacle subjected to the action of free jets with separation. **89g:76014**
Merkulov, V. I. Control of the flow of a fluid using electromagnetic forces. (Russian) (Not in MR)
Minenko, A. S. A problem of potential flow of a fluid with a free boundary. (Russian) **89a:76013**
Morland, L. C. *see* **Dewynne, J. N.; et al., 89m:76013**
Needham, D. J. (*with* Riley, N.; Smith, J. H. B.) A jet in crossflow. **89f:76019**
Ngo Duy Can Some new problems in the theory of the motion of a body containing a fluid. (Russian. English summary) **89h:76009**
Obaid, S. A. (*with* Benharbit, A.) Stream functions of certain rotating cylinders. **89f:76020**
Ockendon, J. R. *see* **Dewynne, J. N.; et al., 89m:76013**
Orlov, Yu. F. Theory of the potential of accelerations, and asymptotic methods. (Russian) **89d:76006**
Reynolds, D. W. (*with* Cox, E. A.) Periodic solutions of an integrodifferential equation modelling resonant sloshing. **89k:76011**
— Existence of periodic solutions of an integro-differential equation modelling resonant water waves. **89h:76010**
Riley, N. *see* **Needham, D. J.; et al., 89f:76019**
Santos, Lisa Variational convergence of a flow with wake in a channel past a profile. (Italian summary) **89g:76015**
Schomburg, B. *see* **Doppel, K., 89i:76023**
Shvets, G. A. *see* **Lukovskiĭ, I. A., 89f:76018**
Smith, J. H. B. *see* **Needham, D. J.; et al., 89f:76019**
Stojanović, Srdjan Injection of ideal fluid from two slots into a stream. **89k:76012**
Vanden-Broeck, J.-M. (*with* Keller, J. B.) Surfing on solitary waves. **89k:76013**
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Wegert, E. On a nonlinear problem of the theory of potential flows. **89b:76004**

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Acosta, Allan J. *see* **d'Agostino, Luca; et al., 89m:76065**
d'Agostino, Luca (*with* Brennen, Christopher E.; Acosta, Allan J.) Linearized dynamics of two-dimensional bubbly and cavitating flows over slender surfaces. **89m:76065**
Barnsley, G. R. *see* **Soh, W. K., 89d:76004**
Berger, Stanley A. Initial-value stability analysis of a liquid jet. **89h:76011**
Brennen, Christopher E. *see* **d'Agostino, Luca; et al., 89m:76065**
Byatt-Smith, J. G. B. Resonant oscillations in shallow water with small mean-square disturbances. **89m:76014**
Capodanno, Pierre Petites oscillations planes de deux liquides pesants non miscibles dans un vase fixe. [Small plane oscillations of two immiscible heavy liquids in a fixed vessel] **89e:76024**
Galiev, Sh. U. ★ Нелинейные волны в органиченных сплошных средах. (Russian) [Nonlinear waves in bounded continua] **89i:73042**
Iacob, Caius On a subsonic jet problem. II. **89g:76031**
Li, Jia Chun A solitary group of two-dimensional deep-water waves due to a concentrated force-couple. (Not in MR)
Miketinac, M. J. (*with* Sani, R. L.) Simulation of jet flows in ideal fluids by variable finite elements. **89k:76006**
Nayfeh, Ali Hasan Numerical-perturbation methods in mechanics. **89i:70037**
Novikov, Evgeny A. Generation of surface waves by three-dimensional vortex structures. **89e:76031**
Ockendon, J. R. (*with* Wilmott, P.) Matching and singularity distributions in inviscid flow. **89m:76021**
Sani, R. L. *see* **Miketinac, M. J., 89k:76006**
Soh, W. K. (*with* Barnsley, G. R.) Computation of nonlinear water waves generated by a submerged body. **89d:76004**
Souli, M. (*with* Zolésio, J.-P.) Semidiscrete and discrete gradient for nonlinear water wave problems. **89j:76027**
Wilmott, P. *see* **Ockendon, J. R., 89m:76021**
Zolésio, J.-P. *see* **Souli, M., 89j:76027**

76B15 Water waves, gravity waves; dispersion and diffraction, nonlinear interaction

Akhmedova, N. G. Existence of solutions of a nonlinear problem of the theory of a stratified heavy fluid. (Russian) **89f:76021**

Aleshkov, Yu. Z. Penetration of waves into the harbor of a port with arbitrarily arranged breakwaters. **89e:76018**

Balagondar, P. M. (*with* Maslowe, S. A.; Melkonian, S.) The propagation of finite-amplitude waves in a model boundary layer. **89k:76014**

Becker, Janet *see* **Miles, John, 89c:76037**

Benilov, E. S. (*with* Pelinovskiĭ, E. N.) Scattering of internal waves in a current above a nonuniform bottom. **89j:76030**

Bhutani, O. P. (*with* Mital, Poornima; Chandrasekaran, G.) On invariant solutions of the generalised Boussinesq equation. **89c:76027**

Blackman, D. R. *see* **McCowan, A. D., 89i:76028**

Buintseva, N. B. Asymptotic representations of the solution of a mixed problem of the motion of an inviscid fluid. (Russian) **89i:76024**

Byatt-Smith, J. G. B. Resonant oscillations in shallow water with small mean-square disturbances. **89m:76014**

Chakrabarti, Aloknath Capillary-gravity waves against a corrugated vertical cliff. **89k:76015**

— *see also* **Mandal, B. N.**, (Not in MR)

Chandrasekaran, G. *see* **Bhutani, O. P.; et al., 89c:76027**

Craik, A. D. D. (*with* Moroz, I. M.) Temporal evolution of interacting waves in nonconservative systems: some exact solutions. **89k:76016**

Dalrymple, Robert A. *see* **Martin, Paul Andrew, 89c:76035**

David, D. (*with* Levi, D.; Winternitz, P.) Integrable nonlinear equations for water waves in straits of varying depth and width. **89i:76025**

Debnath, Lokenath A variational principle for nonlinear water waves. **89d:76007**

DeVito, C. L. *see* **Neta, B., 89f:76024**

Eatock Taylor, R. *see* **Wu, G. X., 89f:76028**

Edelen, Dominic G. B. On solving problems in the mechanics of solids and fluids by a generalized method of characteristics. **89i:76026**

Faltas, M. S. Asymptotic analysis of surface waves due to oscillatory wave maker. **89i:76027**

Feng, Z. C. (*with* Sethna, P. R.) Symmetry-breaking bifurcations in resonant surface waves. **89m:76015**

Foda, Mostafa A. (*with* Mei, Chiang C.) Subharmonic generation of edge waves by nonuniform incident waves. **89c:76028**

Forbes, Lawrence K. Surface waves of large amplitude beneath an elastic sheet. I. High-order series solution. **89e:76019**

— Surface waves of large amplitude beneath an elastic sheet. II. Galerkin solution. **89e:76020**

Gabov, S. A. On the theory of internal waves in the presence of a free surface. (Russian) **89c:76029**

Geogdzhaev, V. V. Solution of the Benney equations by the inverse scattering method. (Russian. English summary) **89c:76030**

Golin'ko, V. I. Coastal run-up of a tsunami propagating in a bay. **89c:76031**

Gollub, J. P. *see* **Simonelli, F., 89k:76017**

Goutal, N. Résolution des équations de Saint-Venant en régime transcritique par une méthode d'éléments finis: application aux bancs découvrants. (English summary) [Finite-element solution of the shallow-water Saint-Venant equations for a transcritical flow: application to the intertidal flat] **89c:76032**

Green, A. E. (*with* Naghdi, P. M.) Further developments in a nonlinear theory of water waves for finite and infinite depths. **89c:76033**

Grimshaw, R. The modulation of short gravity waves by long waves or currents. **89f:76022**

— *see also* **Pullin, D. I., 89j:76032**

Gu, X. M. (*with* Sethna, P. R.) Resonant surface waves and chaotic phenomena. **89a:76014**

Holm, Darryl D. Hamiltonian structure for two-dimensional hydrodynamics with nonlinear dispersion. **89f:76023**

Hosokawa, Kazutaka *see* **Sugimoto, Nobumasa; et al., 89a:76018**

Howes, Frederick A. A model for the viscous attenuation of waves on the common boundary of two superposed fluids. **89g:76016**

Hunter, J. K. (*with* Scheurle, Jürgen) Existence of perturbed solitary wave solutions to a model equation for water waves. **89j:76031**

Kakutani, Tsunehiko *see* **Sugimoto, Nobumasa; et al., 89a:76018**

Kamp, L. P. J. *see* **Miesen, R. H. M.; et al., 89i:76029**

Keller, J. B. Resonantly interacting water waves. **89m:76016**

— *see also* **Newton, Paul K., 89e:76021**

Kim, Moo-Hyun (*with* Yue, Dick K. P.) The complete second-order diffraction solution for an axisymmetric body. I. Monochromatic incident waves. **89m:76017**

Kundu, Krishna *see* **Mandal, B. N., 89d:76009**

Kundu, P. K. *see* **Mandal, B. N., 89c:76034**

Kuznetsov, N. G. (*with* Maz'ya, V. G.) Asymptotic expansions for surface waves that can be induced by rapidly oscillating or accelerating perturbations. (Russian) **89d:76008**

Levi, D. *see* **David, D.; et al., 89i:76025**

Li, Jia Chun A solitary group of two-dimensional deep-water waves due to a concentrated force-couple. (Not in MR)

Mandal, B. N. (*with* Kundu, P. K.) A note on an integral equation in the theory of water waves. **89c:76034**

— (*with* Chakrabarti, Aloknath) The plane vertical wavemaker problem—revisited. (Not in MR)

— On forced motion due to a vertical cylindrical wave-maker in a liquid with an inertial surface. **89g:76017**

— (*with* Kundu, Krishna) Ring source potentials in two superposed fluids separated by an inertial surface. **89d:76009**

Marchant, T. R. (*with* Roberts, A. J.) A variational approach to the problem of deep-water waves forming a circular caustic. **89m:76018**

Martin, Paul Andrew (*with* Dalrymple, Robert A.) Scattering of long waves by cylindrical obstacles and gratings using matched asymptotic expansions. **89c:76035**

Maslowe, S. A. *see* **Balagondar, P. M.; et al., 89k:76014**

Maz'ya, V. G. *see* **Kuznetsov, N. G., 89d:76008**

McCowan, A. D. (*with* Blackman, D. R.) The equations for long waves and their application. **89i:76028**

McKee, W. D. Reflection of water waves from an exponentially sheared current. (Not in MR)

Mei, Chiang C. *see* **Foda, Mostafa A., 89c:76028**

Melkonian, S. *see* **Balagondar, P. M.; et al., 89k:76014**

Meyer, R. E. On the shore singularity of water waves. I. The local model. **89b:76005a**

— On the shore singularity of water-wave theory. II. Small waves do not break on gentle beaches. **89b:76005b**

Miesen, R. H. M. (*with* Kamp, L. P. J.; Sluijter, F. W.) On the application of the Boussinesq approximation for nonlinear gravity waves in the atmosphere. **89i:76029**

Miles, John Parametrically excited, standing cross-waves. **89c:76036**

— (*with* Becker, Janet) Parametrically excited, progressive cross-waves. **89c:76037**

— The evolution of a weakly nonlinear, weakly damped, capillary-gravity wave packet. **89d:76010**

Mital, Poornima *see* **Bhutani, O. P.; et al., 89c:76027**

Mohapatra, Ram Narayan *see* **Shivamoggi, Bhimsen K., 89f:76025**

Monin, A. S. The theory of waves on the water surface. (Russian. English summary) **89a:76015**

Moroz, I. M. *see* **Craik, A. D. D., 89k:76016**

Murawski, K. Instabilities of generalized Boussinesq-type waves. **89b:76006**

Mvungi, John R. A note on the propagation of circular fronts into still water. **89a:76016**

Naghdi, P. M. *see* **Green, A. E., 89c:76033**

Neta, B. (*with* DeVito, C. L.) The transfer function analysis of various schemes for the two-dimensional shallow-water equations. **89f:76024**

Newton, Paul K. (*with* Keller, J. B.) Stability of plane wave solutions of nonlinear systems. **89e:76021**

Neyzi, Fahrünisa (*with* Nutku, Yavuz) Canonical structures for dispersive waves in shallow water. **89a:76017**

Nutku, Yavuz *see* **Neyzi, Fahrünisa, 89a:76017**

Ovsyannikov, L. V. On the theory of nonlinear waves. (Russian) **89e:76022**

Pelinovskiĭ, E. N. *see* **Benilov, E. S., 89j:76030**

Pezzoli, Giannantonio A new solution for the motion of high-velocity curvilinear currents. (Italian) (Not in MR)

Pletner, Yu. D. On a problem of gravitational-gyroscopic waves caused by the oscillations of a rectilinear segment. (Russian) **89d:76011**

Pullin, D. I. (*with* Grimshaw, R.) Finite-amplitude solitary waves at the interface between two homogeneous fluids. **89j:76032**

Roberts, A. J. *see* **Marchant, T. R., 89m:76018**

Scheurle, Jürgen *see* **Hunter, J. K., 89j:76031**

Sethna, P. R. *see* **Gu, X. M., 89a:76014** *and* **Feng, Z. C., 89m:76015**

Shen, M. C. Some model equations for surface waves on a fluid. (*see* **89f:76002**)

Shivamoggi, Bhimsen K. (*with* Mohapatra, Ram Narayan) The number of "effective modes" of the two- and three-dimensional nonlinear Schrödinger equation. **89f:76025**

— Regularized long-wave equation. **89d:76012**

Shōji, Mayumi The structure of gravity-capillary waves of permanent profiles on deep water. **89i:76030**

Simonelli, F. (*with* Gollub, J. P.) Surface wave mode interactions: effects of symmetry and degeneracy. **89k:76017**

Sluijter, F. W. *see* **Miesen, R. H. M.; et al., 89i:76029**

Sugimoto, Nobumasa (*with* Hosokawa, Kazutaka; Kakutani, Tsunehiko) Reflection and transmission of a shallow-water soliton over a barrier. **89a:76018**

Tikilyaĭnen, A. A. On a problem connected with the theory of planetary waves. (Russian) **89d:76013**

Ursell, F. Mathematical aspects of trapping modes in the theory of surface waves. **89a:76019**

Vanina, E. G. Representation of solutions of a differential equation for the scattering of waves by an elliptic inhomogeneity. (Russian) **89f:76026**

Walton, P. On the heaving motion of a circular cylinder more or less than half immersed in the free surface of a fluid. **89j:76033**

Wen, Xian Yun (*with* Wu, Chi Gong) Boundary integral equations. Inverse method for free surface gravity flows. **89f:76027**

Wienert, Lutz An existence proof for a boundary value problem with nonsmooth boundary from the theory of water waves. **89k:76018**

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Wu, Chi Gong *see* **Wen, Xian Yun, 89f:76027**

Wu, G. X. (*with* Eatock Taylor, R.) Radiation and diffraction of water waves by a submerged sphere at forward speed. **89f:76028**

Yih, Chia-Shun Finite groups of gravity waves. **89j:76034**

— Finite groups of gravity waves. **89i:76031**

— Nonlinear gravity-wave groups. **89m:76019**

Yue, Dick K. P. *see* **Kim, Moo-Hyun, 89m:76017**

Zhevandrov, P. N. The Cauchy-Poisson problem for gravitational-capillary waves on water of variable depth. (Russian) **89c:76038**

Items with secondary classifications in 76B15

Barnsley, G. R. *see* **Soh, W. K., 89d:76004**

Benjamin, T. B. (*with* Bowman, S. B.) Discontinuous solutions of one-dimensional Hamiltonian systems. **89h:35197**

Bowman, S. B. *see* **Benjamin, T. B., 89h:35197**

Buintseva, N. B. (*with* Matveev, P. N.) Existence of classical solutions of dissipative shallow water equations. (Russian) **89f:35177**

Byatt-Smith, J. G. B. Perturbation theory for approximately integrable partial differential equations, and the change of amplitude of solitary-wave solutions of the BBM equation. **89b:76007**

Calogero, Francesco (*with* Eckhaus, Wiktor) Nonlinear evolution equations, rescalings, model PDEs and their integrability. I. **89e:35128**

Carbonaro, Bruno (*with* Russo, Remigio) On wave propagation and uniqueness in nonviscous fluid dynamics. **89j:35105**

Chalabi, Abdallah A self-consistent finite-difference treatment of the moving boundary for long waves in shallow water. **89e:76003**

Chowdhury, K. L. (*with* Şuhubi, E. S.) On the conservation laws of the BBM equation. **89a:58119**

Christiansen, Søren A stability analysis of a Eulerian method for some surface gravity wave problems. (*see* **89j:35007**)

Cox, E. A. *see* **Reynolds, D. W., 89k:76011**

Craik, A. D. D. ★ Wave interactions and fluid flows. **89j:76001**

Crighton, D. G. *see* **Lee-Bapty, I. P., 89g:78018**

Dobrokhotov, S. Yu. (*with* Zhevandrov, P. N.; Maslov, V. P.) An asymptotic method for studying detection in nonlinear pseudodifferential equations and its application to the theory of surface waves. (Russian) **89k:35203**

Dysthe, Kristian (*with* Henyey, F. S.; Longuet-Higgins, M. S.; Schult, R. L.) The orbiting double pendulum: an analogue to interacting gravity waves. **89j:70019**

Eckhaus, Wiktor *see* **Calogero, Francesco, 89e:35128**

Fugazza, M. (*with* Natale, L.) Simulation of coupled and uncoupled phenomena in floating breakwater models. (*see* **89g:76003b**)

Gabov, S. A. A problem in the hydrodynamics of an ideal fluid that is connected with flotation. **89h:35287**

Grammaticos, Basile *see* **Pomeau, Y.; et al., 89h:35314**

Grasse, Kevin A. (*with* White, L. W.) Estimation of Cauchy data for a first-order nonlinear hyperbolic equation. **89m:35132**

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Hajnal, J. V. *see* **Nye, J. F.; et al., 89e:86004**

Hannay, J. H. *see* **Nye, J. F.; et al., 89e:86004**

Henyey, F. S. *see* **Dysthe, Kristian; et al., 89j:70019**

Hogan, S. J. The superharmonic normal mode instabilities of nonlinear deep-water capillary waves. **89m:76044**

Kawahara, M. (*with* Kodama, Toshio; Kinoshita, Masataka) Finite element method for tsunami wave propagation analysis considering the open boundary condition. **89e:76011**

Kinoshita, Masataka *see* **Kawahara, M.; et al., 89e:76011**

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Kodama, Toshio *see* **Kawahara, M.; et al., 89e:76011**

Komarenko, A. N. *see* **Lukovskiĭ, I. A., (89g:00006)**

Lee-Bapty, I. P. (*with* Crighton, D. G.) Nonlinear wave motion governed by the modified Burgers equation. **89g:78018**

Lenoir, Marc André (*with* Tounsi, A.) The localized finite element method and its application to the two-dimensional sea-keeping problem. **89k:65138**

Leo, R. A. (*with* Mancarella, G.; Soliani, G.) On the Broer-Kaup hydrodynamical system. **89e:58123**

Liggett, James A. Free surface flow—exposing the hidden nonlinearity. **89d:65105**

Longuet-Higgins, M. S. *see* **Dysthe, Kristian; et al., 89j:70019**

Lukovskiĭ, I. A. (*with* Komarenko, A. N.) Variational formulation of some nonlinear boundary value problems in mathematical physics in domains with free boundaries. (Russian) (*see* **89g:00006**)

Mancarella, G. *see* **Leo, R. A.; et al., 89e:58123**

Maslov, V. P. *see* **Dobrokhotov, S. Yu.; et al., 89k:35203**

Matsukawa, Michiaki (*with* Watanabe, Shinsuke) *N*-soliton solution of two-dimensional modified Boussinesq equation. **89k:35222**

Matsuno, Yoshimasa Dynamical motions of algebraic solitons of a model equation for deep water waves. **89i:76032**

Matveev, P. N. *see* **Buintseva, N. B., 89f:35177**

Mel′nikov, V. K. Exact solutions of the Korteweg-de Vries equation with a self-consistent source. **89h:35310**

Mielke, A. Reduction of quasilinear elliptic equations in cylindrical domains with applications. **89d:35063**

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Natale, L. *see* **Fugazza, M., (89g:76003b)**

Needham, D. J. A simple model describing the tidal flow in an alluvial river. **89f:86004**

Nishida, Takaaki Analysis of fluid equations. Free surface problems. (Japanese) **89h:35354**

Nye, J. F. (*with* Hajnal, J. V.; Hannay, J. H.) Phase saddles and dislocations in two-dimensional waves such as the tides. **89e:86004**

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Pearson, Carl E. Upwind and downwind effects of numerical approximations to wave equations. **89d:65086**

Pitaevskiĭ, L. P. *see* **Gurevich, Aleksandr Viktor, 89h:35291**

Pomeau, Y. (*with* Ramani, Alfred; Grammaticos, Basile) Structural stability of the Korteweg-de Vries solitons under a singular perturbation. **89h:35314**

Purkait, Sasanka *see* **Roy Chowdhury, A., 89d:58135**

Ramani, Alfred *see* **Pomeau, Y.; et al., 89h:35314**

Reynolds, D. W. (*with* Cox, E. A.) Periodic solutions of an integrodifferential equation modelling resonant sloshing. **89k:76011**

Roy, Swapna (*with* Roy Chowdhury, A.) Dispersive water-wave equations: a paradigm of the Painlevé conjecture. **89g:58096**

Roy Chowdhury, A. (*with* Purkait, Sasanka) On the nonlocal generalised symmetries of the Benney-Kaup system. **89d:58135**

— *see also* Roy, Swapna, **89g:58096**

Russo, Remigio *see* **Carbonaro, Bruno, 89j:35105**

Rymarz, C. (*with* Winnicki, I.) The convergence of the passage method with iteration for the nonlinear equations describing shallow water. (Russian and Polish summaries) **89a:76005**

Schult, R. L. *see* **Dysthe, Kristian; et al., 89j:70019**

Shul′man, E. I. *see* **Zakharov, V. E., 89k:58137**

Sloan, D. M. On modulational instabilities in discretisations of the Korteweg-de Vries equation. **89k:76008**

Soh, W. K. (*with* Barnsley, G. R.) Computation of nonlinear water waves generated by a submerged body. **89d:76004**

Soliani, G. *see* **Leo, R. A.; et al., 89e:58123**

Souli, M. (*with* Zolésio, J.-P.) Semidiscrete and discrete gradient for nonlinear water wave problems. **89j:76027**

Şuhubi, E. S. *see* **Chowdhury, K. L., 89a:58119**

Tôn, Bùi An Water waves over a sloping beach. **89b:35140**

Tounsi, A. *see* **Lenoir, Marc André, 89k:65138**

Ursell, F. On the theory of the Kelvin ship-wave source: asymptotic expansion of an integral. **89k:76019**

Vakulenko, S. A. *see* **Molotkov, I. A., 89j:35004**

Verheest, Frank Proof of integrability for five-wave interactions in a case with unequal coupling constants. **89h:58084**

Verosky, John An example of a Miura map: the shallow-water wave equations. **89d:58047**

Wang, Ming Liang The traveling wave solutions and approximate solutions for Boussinesq equations. **89j:35124**

Watanabe, Shinsuke *see* **Matsukawa, Michiaki, 89k:35222**

White, L. W. *see* **Grasse, Kevin A., 89m:35132**

Winnicki, I. *see* **Rymarz, C., 89a:76005**

Zakharov, V. E. (*with* Shul′man, E. I.) On additional motion invariants of classical Hamiltonian wave systems. **89k:58137**

Zhevandrov, P. N. *see* **Dobrokhotov, S. Yu.; et al., 89k:35203**

Zhidkov, P. E. Stability of solitary waves. (Russian) (*see* **89g:82003**)

Zhou, Xian Chu Fission of solitary wave in stratified fluid. **89g:76018**

Zolésio, J.-P. *see* **Souli, M., 89j:76027**

76B20 Ship waves

Ursell, F. On the theory of the Kelvin ship-wave source: asymptotic expansion of an integral. **89k:76019**

Items with secondary classifications in 76B20

Eatock Taylor, R. *see* **Wu, G. X., 89f:76028**

Hsiao, G. C. Boundary element methods for exterior problems in elasticity and fluid mechanics. (*see* **89c:65004**)

Wu, G. X. (*with* Eatock Taylor, R.) Radiation and diffraction of water waves by a submerged sphere at forward speed. **89f:76028**

76B25 Solitary and cnoidal waves

Amick, Charles J. (*with* Kirchgässner, Klaus) A theory of solitary water-waves in the presence of surface tension. **89k:76020**

Bogdan, T. J. (*with* Lerche, I.) A note on solitary wave solutions of the Leibovich-Roberts equation. **89k:76021**

Byatt-Smith, J. G. B. Perturbation theory for approximately integrable partial differential equations, and the change of amplitude of solitary-wave solutions of the BBM equation. **89b:76007**

Cao, Wei Ming *see* **Guo, Ben Yu, 89c:76039**

Guo, Ben Yu (*with* Cao, Wei Ming) The Fourier pseudospectral method with a restrain operator for the RLW equation. **89c:76039**

Kawahara, Takuji (*with* Toh, Sadayoshi) Pulse interactions in an unstable dissipative-dispersive nonlinear system. **89f:76029**

Kirchgässner, Klaus *see* **Amick, Charles J., 89k:76020**

Lerche, I. *see* **Bogdan, T. J., 89k:76021**

Matsuno, Yoshimasa Dynamical motions of algebraic solitons of a model equation for deep water waves. **89i:76032**

Toh, Sadayoshi *see* **Kawahara, Takuji, 89f:76029**

Wu, T. Yao-Tsu Generation of upstream advancing solitons by moving disturbances. **89b:76008**

— Forced generation of solitary waves. (*see* **89f:76002**)

Zhou, Xian Chu Fission of solitary wave in stratified fluid. **89g:76018**

Items with secondary classifications in 76B25

Bass, F. G. (*with* Kivshar, Yu. S.; Konotop, V. V.; Sinitsyn, Yu. A.) Dynamics of solitons under random perturbations. **89a:35231**

Bona, Jerry L. (*with* Sachs, Robert L.) Global existence of smooth solutions and stability of solitary waves for a generalized Boussinesq equation. **89k:35198**

Byatt-Smith, J. G. B. On the change of amplitude of interacting solitary waves. **89f:35179**

Dai, H. H. *see* **Jeffrey, A., 89m:86002**

David, D. (*with* Levi, D.; Winternitz, P.) Integrable nonlinear equations for water waves in straits of varying depth and width. **89i:76025**

Grimshaw, R. *see* **Pullin, D. I., 89j:76032**

Hogan, S. J. The superharmonic normal mode instabilities of nonlinear deep-water capillary waves. **89m:76044**

Hosokawa, Kazutaka *see* **Sugimoto, Nobumasa; et al., 89a:76018**

Hunter, J. K. (*with* Scheurle, Jürgen) Existence of perturbed solitary wave solutions to a model equation for water waves. **89j:76031**

Jeffrey, A. (*with* Dai, H. H.) On the reflection of a solitary wave at a sloping beach: analytical results. **89m:86002**

Kakutani, Tsunehiko *see* **Sugimoto, Nobumasa; et al., 89a:76018**

Khapaev, Mikhail Mikhaĭlovich *see* **Mal′kov, K. V., 89h:35307**

Kivshar, Yu. S. *see* **Bass, F. G.; et al., 89a:35231**

Konotop, V. V. *see* **Bass, F. G.; et al., 89a:35231**

Levi, D. *see* **David, D.; et al., 89i:76025**

Mal′kov, K. V. (*with* Khapaev, Mikhail Mikhaĭlovich) On the suppression of soliton-like solutions of shallow water equations by the outstripping resistance. **89h:35307**

Murawski, K. Instabilities of generalized Boussinesq-type waves. **89b:76006**

Pullin, D. I. (*with* Grimshaw, R.) Finite-amplitude solitary waves at the interface between two homogeneous fluids. **89j:76032**
Sachs, Robert L. *see* **Bona, Jerry L., 89k:35198**
Scheurle, Jürgen *see* **Hunter, J. K., 89j:76031**
Shivamoggi, Bhimsen K. Regularized long-wave equation. **89d:76012**
Sinitsyn, Yu. A. *see* **Bass, F. G.; et al., 89a:35231**
Sugimoto, Nobumasa (*with* Hosokawa, Kazutaka; Kakutani, Tsunehiko) Reflection and transmission of a shallow-water soliton over a barrier. **89a:76018**
Wang, Ming Liang The traveling wave solutions and approximate solutions for Boussinesq equations. **89j:35124**
Winternitz, P. *see* **David, D.; et al., 89i:76025**

76B45 Capillarity

Berger, Stanley A. Initial-value stability analysis of a liquid jet. **89h:76011**
Brochard, Françoise (*with* Redon, Claude; Rondelez, Francis) Démouillage: régime de gravité. (English summary) [Dewetting: the gravity controlled regime] **89j:76035**
Dmitriev, P. B. On the theory of capillary waves on the surface of a rotating fluid. (Russian) **89d:76014**
Finn, Robert Nonuniqueness and uniqueness of capillary surfaces. **89g:76019**
— (*with* Shinbrot, Marvin) The capillary contact angle. II. The inclined plane. **89k:76022**
Greenspan, Donald Mechanisms of capillarity via supercomputer simulation. **89f:76030**
(Milinazzo, F.) *see* **Finn, Robert, 89k:76022**
Redon, Claude *see* **Brochard, Françoise; et al., 89j:76035**
Rondelez, Francis *see* **Brochard, Françoise; et al., 89j:76035**
Shinbrot, Marvin *see* **Finn, Robert, 89k:76022**
Tam, Luen-Fai The behavior of capillary surfaces as gravity tends to zero. **89c:76040**

Items with secondary classifications in 76B45

Andreev, V. K. On the stability of nonstationary capillary motion. **89d:76020**
Chakrabarti, Aloknath Capillary-gravity waves against a corrugated vertical cliff. **89k:76015**
Chervenivanova, E. (*with* Zapryanov, Z.) The slow motion of droplets perpendicular to a deformable flat fluid interface. **89m:76026**
Combescot, R. (*with* Hakim, V.; Dombre, T.; Pomeau, Y.; Pumir, A.) Analytic theory of the Saffman-Taylor fingers. **89c:76103**
Dombre, T. *see* **Combescot, R.; et al., 89c:76103**
Elazab, S. S. *see* **Radwan, A. E., 89c:76068**
Finn, Robert Moon surfaces, and boundary behaviour of capillary surfaces for perfect wetting and nonwetting. **89m:49076**
Hakim, V. *see* **Combescot, R.; et al., 89c:76103**
Miles, John The evolution of a weakly nonlinear, weakly damped, capillary-gravity wave packet. **89d:76010**
Pomeau, Y. *see* **Combescot, R.; et al., 89c:76103**
Pumir, A. *see* **Combescot, R.; et al., 89c:76103**
Radwan, A. E. (*with* Elazab, S. S.) Capillary instability of a viscous hollow cylinder. **89c:76068**
Shōji, Mayumi The structure of gravity-capillary waves of permanent profiles on deep water. **89i:76030**
Zapryanov, Z. *see* **Chervenivanova, E., 89m:76026**
Zhevandrov, P. N. The Cauchy-Poisson problem for gravitational-capillary waves on water of variable depth. (Russian) **89c:76038**

76B99 None of the above, but in this section

Aparinov, V. A. (*with* Belotserkovskiĭ, S. M.; Lifanov, I. K.; Mikhaĭlov, A. A.) Calculation of nonstationary aerodynamic characteristics of bodies in the case of separated flow. (Russian) **89k:76023**
Baddour, R. E. *see* **Song, S., 89g:76021**
Barnyak, M. Ya. Application of the method of orthogonal projections to the investigation of small oscillations of a fluid in a vessel. (Russian) **89g:76020**
Belotserkovskiĭ, S. M. *see* **Aparinov, V. A.; et al., 89k:76023**
Bloor, M. I. G. *see* **King, Andrew Charles, 89k:76024**
Capodanno, Pierre Sur les petites oscillations planes d'un liquide dans un récipient fixe fermé par un couvercle élastique. (English summary) [On the plane small oscillations of a liquid in a fixed container closed by an elastic cover] **89e:76023**
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Chebotarëv, A. Yu. Solvability of a unilateral steady-state flow problem for equations of an ideal fluid. (Russian) **89e:76025**
Crits, Y. *see* **Sahloul, M.; et al., (89g:76003b)**
Derbasova, V. A. Use of the Green integral formula in a problem of flow around bodies of arbitrary shape. (Russian) (*see* **89c:00008**)
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Hoàng Văn Tao The method of the small parameter in problems on the collapse of a dam. (Russian. English summary) **89c:76041**
King, Andrew Charles (*with* Bloor, M. I. G.) A note on the free surface induced by a submerged source at infinite Froude number. **89k:76024**
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Lifanov, I. K. *see* **Aparinov, V. A.; et al., 89k:76023**
Limarchenko, O. S. Application of direct methods to the investigation of applied problems of the nonlinear dynamics of bodies that are partially filled by a fluid. (Russian) **89h:76012**
Mikhaĭlov, A. A. *see* **Aparinov, V. A.; et al., 89k:76023**
Ockendon, J. R. (*with* Wilmott, P.) Matching and singularity distributions in inviscid flow. **89m:76021**
Plancke, J. *see* **Sahloul, M.; et al., (89g:76003b)**
Poots, G. *see* **Larcombe, P. J.; et al., 89m:76020**
Popescu, Mihail *see* **Halanay, Aristide, 89j:76036**
Sahloul, M. (*with* Crits, Y.; Plancke, J.) Modèle de calcul de la propagation de la houle. [A model for computing wave propagation] (*see* **89g:76003b**)
Shillor, M. *see* **Larcombe, P. J.; et al., 89m:76020**
Skelton, P. L. I. *see* **Larcombe, P. J.; et al., 89m:76020**
Song, S. (*with* Baddour, R. E.) Nonpotential wave-current field. **89g:76021**
Valli, Alberto (*with* Zajączkowski, W. M.) About the motion of nonhomogeneous ideal incompressible fluids. **89e:76026**
Wilmott, P. *see* **Ockendon, J. R., 89m:76021**
Zajączkowski, W. M. *see* **Valli, Alberto, 89e:76026**

Items with secondary classifications in 76B99

Ball, J. M. Loss of the constraint in convex variational problems. **89j:49041**
Belotserkovskiĭ, S. M. (*with* Lifanov, I. K.; Mikhaĭlov, A. A.) Calculation of circulation-free flow around arbitrary bodies. (Russian) **89e:76001**
Busch-Vishniac, Ilene J. *see* **Paynter, Henry M., 89i:35088**
Ferm, Lars *see* **Gustafsson, Bertil, 89c:35095**
Gabov, S. A. A problem in the hydrodynamics of an ideal fluid that is connected with flotation. **89h:35287**
— (*with* Tverskoĭ, M. B.) On a problem of the flow of a stratified fluid around obstacles. (Russian) **89c:76110**
Gassiev, R. V. *see* **Vabishchevich, P. N., 89k:76009**
Guermond, Jean Luc A systematic formula for the asymptotic expansion of singular integrals. (French summary) **89h:41060**
Gustafsson, Bertil (*with* Ferm, Lars) Far field boundary conditions for steady state solutions to hyperbolic systems. **89c:35095**
Hackbusch, Wolfgang The panel clustering technique for the boundary element method (invited contribution). **89i:76011**
Hunter, J. K. (*with* Keller, J. B.) Nonlinear hyperbolic waves. **89f:35129**
Keller, J. B. *see* **Hunter, J. K., 89f:35129**
Khdeir, Ahmed A. *see* **Nayfeh, Ali Hasan, 89i:70033**
Kholopova, V. V. *see* **Puchka, G. N., 89i:70016**
Korobkin, A. A. Linear approximation in a problem of internal waves on the flow of a two-layer fluid. (Russian) **89c:76111**
Kuznetsov, N. G. (*with* Maz'ya, V. G.) Unique solvability of the plane Neumann-Kelvin problem. **89i:35048**
Lifanov, I. K. *see* **Belotserkovskiĭ, S. M.; et al., 89e:76001**
Matsuno, Yoshimasa New integrable nonlinear integro-differential equations and related solvable finite-dimensional dynamical systems. **89a:35192**
— Erratum: "New integrable nonlinear integro-differential equations and related solvable finite-dimensional dynamical systems" [J. Math. Phys. 29 (1988), no. 1, 49–56; MR 89a:35192]. **89k:35223**
Maz'ya, V. G. *see* **Kuznetsov, N. G., 89i:35048**
Mikhaĭlov, A. A. *see* **Belotserkovskiĭ, S. M.; et al., 89e:76001**
Moreau, J.-J. Free boundaries and nonsmooth solutions to some field equations: variational characterization through the transport method. **89f:49019**
Nayfeh, Ali Hasan (*with* Khdeir, Ahmed A.) Rolling of ships in large-amplitude waves. **89i:70033**
Paynter, Henry M. (*with* Busch-Vishniac, Ilene J.) Remarks on Riemann's method of characteristics. **89i:35088**
Perevozchikov, A. G. A problem of hydrodynamics with a free boundary. (Russian) **89f:35222**
Puchka, G. N. (*with* Kholopova, V. V.) Nonlinear oscillations of an ellipsoid with a fluid containing spherical inclusions. **89i:70016**
Sankovich, D. P. Kinetic and hydrodynamic equations in the nonlinear Schrödinger model. **89i:35122**
Tosaka, N. New integral formulations for continuum mechanics. **89k:73009**
Tverskoĭ, M. B. *see* **Gabov, S. A., 89c:76110**
Vabishchevich, P. N. (*with* Gassiev, R. V.) Numerical algorithms for forward calculation for the solution of problems of ideal hydrodynamics. (Russian) **89k:76009**
Yakimov, Yu. L. Limit flows of water. (Russian) **89e:76045**

76Cxx Incompressible inviscid fluids, vorticity flows

76C05 Vorticity flows

Abrashkin, A. A. (*with* Yakubovich, E. I.) Two-dimensional vortices in an ideal fluid. (Russian) **89e:76027**
Amick, Charles J. (*with* Fraenkel, L. E.) The uniqueness of a family of steady vortex rings. **89c:76042**
Ashurst, W. T. *see* **Lundgren, T. S., 89m:76022**
Berger, M. S. Axisymmetric vortex motions with swirl. **89e:76028**
Braĭlovskaya, V. A. (*with* Kogan, V. R.) A method for calculating periodic vortex flows of an incompressible fluid. (Russian) **89k:76025**
Broomhead, D. S. (*with* Ryrie, Susan C.) Particle paths in wavy vortices. **89e:76029**
Chernenko, I. V. *see* **Chernousenko, V. M.; et al., 89g:76022**
Chernousenko, V. M. (*with* Chernenko, I. V.; Yan'kov, V. V.) Two-dimensional vortices in plasma and fluid. **89g:76022**
Constantin, Peter (*with* Titi, E. S.) On the evolution of nearly circular vortex patches. **89i:76033**
Eydeland, Alexander (*with* Turkington, Bruce) A computational method of solving free-boundary problems in vortex dynamics. **89j:76037**
Fraenkel, L. E. *see* **Amick, Charles J., 89c:76042**
Fukumoto, Yasuhide *see* **Miyazaki, Takeshi, 89k:76027**
Greengard, Claude (*with* Thomann, Enrique) Singular vortex systems and weak solutions of the Euler equations. **89h:76013**

Gurzhiĭ, A. A. (*with* Konstantinov, M. Yu.; Meleshko, V. V.) Interaction of coaxial vortex rings in an ideal fluid. **89k:76026**

Hyon, Chol Integral for equation of plane nonlinear vortex motion and variational principle for vortex flow over spillway. (Korean. English summary) **89a:76020**

Kimura, Yoshifumi (*with* Okamoto, Hisashi) Vortex motion on a sphere. **89a:76021**

Kogan, V. R. *see* **Brailovskaya, V. A., 89k:76025**

Konstantinov, M. Yu. *see* **Gurzhiĭ, A. A.; et al., 89k:76026**

Lim, Chjan (*with* Sirovich, L.) Nonlinear vortex trail dynamics. **89c:76043**

Lundgren, T. S. (*with* Ashurst, W. T.) Area-varying waves on curved vortex tubes with application to vortex breakdown. **89m:76022**

McWilliams, J. C. *see* **Melander, M. V.; et al., 89m:76023**

Melander, M. V. (*with* Zabusky, N. J.; McWilliams, J. C.) Symmetric vortex merger in two dimensions: causes and conditions. **89m:76023**

Meleshko, V. V. *see* **Gurzhiĭ, A. A.; et al., 89k:76026**

Migdal, A. A. The Fokker-Planck vortex equation. (Russian) **89d:76015**

Miyazaki, Takeshi (*with* Fukumoto, Yasuhide) N-solitons on a curved vortex filament with axial flow. **89k:76027**

Nigam, Rakesh Jacobian interpretation of helicity. **89e:76030**

Novikov, Evgeny A. Generation of surface waves by three-dimensional vortex structures. **89e:76031**

Okamoto, Hisashi *see* **Kimura, Yoshifumi, 89a:76021**

O'Neil, Kevin A. Symmetric configurations of vortices. **89e:76032**

Peradzyński, Z. Properly posed boundary condition and the existence theorem for superfluid He^4. **89m:76024**

Ryrie, Susan C. *see* **Broomhead, D. S., 89e:76029**

Sedenko, V. I. Solvability of an initial-boundary value problem for flows of an ideal fluid, part of whose boundary is free. (Russian) **89e:76033**

Sirovich, L. *see* **Lim, Chjan, 89c:76043**

Slezkin, N. A. Generalizations of a problem of S. A. Chaplygin on a cylindrical vortex. **89g:76023**

Tavantzis, John (*with* Ting, Lu) The dynamics of three vortices revisited. **89c:76044**

Thomann, Enrique *see* **Greengard, Claude, 89h:76013**

Ting, Lu *see* **Tavantzis, John, 89c:76044**

Titi, E. S. *see* **Constantin, Peter, 89i:76033**

Turkington, Bruce Vortex rings with swirl: axisymmetric solutions of the Euler equations with nonzero helicity. **89k:76028**

— *see also* **Eydeland, Alexander, 89j:76037**

Wan, Yieh Hei Variational principles for Hill's spherical vortex and nearly spherical vortices. **89e:76034**

Wu, Hua Mo (*with* Wu, Yu Hua^2) Contour dynamics methods for discontinuous vortical flows. **89a:76022**

Wu, Yu Hua^2 *see* **Wu, Hua Mo, 89a:76022**

Yakubovich, E. I. *see* **Abrashkin, A. A., 89e:76027**

Yan'kov, V. V. *see* **Chernousenko, V. M.; et al., 89g:76022**

Zabusky, N. J. *see* **Melander, M. V.; et al., 89m:76023**

Items with secondary classifications in 76C05

Amick, Charles J. (*with* Turner, R. E. L.) A global branch of steady vortex rings. **89c:35134**

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Aref, H. *see* **Eckhardt, Bruno, 89k:58178**

Bassom, A. P. (*with* Gajjar, J. S. B.) Nonstationary cross-flow vortices in three-dimensional boundary-layer flows. **89e:76036**

Braga, W. Secondary flows on low aspect ratio rotating cavities. **89e:76080**

Burton, G. R. Steady symmetric vortex pairs and rearrangements. **89f:35178**

Cantaloube, B. (*with* Rehbach, C.) Computation of the pressure in an incompressible rotational flow of inviscid fluid. **89g:76006**

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Gajjar, J. S. B. *see* **Bassom, A. P., 89e:76036**

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76C10 Internal waves

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76C15 Atmospheric waves

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76C20 Rossby waves

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Items with secondary classifications in 76C20

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76C99 None of the above, but in this section

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76Dxx Incompressible viscous fluids

76D05 Navier-Stokes equations [see also 35Q10]

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Zaslavskiĭ, G. M. *see* **Beloshapkin, V. V.; et al., 89i:76035**

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Conca, Carlos *see* **Aguirre, Freddy, 89b:35024**

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Kambe, Tsutomu *see* **Giga, Yoshikazu, 89k:35182**

Karageorghis, Andreas *see* **Phillips, T. N., (89j:76004)**

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Keller, Jeffrey M. *see* **Rothman, Daniel H., 89i:82005**

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(Krause, Bernd) *see* **Vishik, M. I., 89h:35271**

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Krist, S. E. *see* **Nosenchuck, D. M.; et al., 89k:76007**

Lallemand, P. *see* **Frisch, Uriel; et al., 89h:82031**

Leaf, G. K. *see* **Thompson, C. P.; et al., 89f:76013**

Leboeuf, F. *see* **El Marjani, A., (89g:76003d)**

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Li, Chin Hsien *see* **Dean, Edward J.; et al., 89c:65096**

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L'vov, V. A. An initial-boundary value problem for the Navier-Stokes equations in domains with a random boundary. (Russian. English summary) **89h:35266**

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Maday, Yvon *see* **Bernardi, Christine; et al., 89f:65118** *and* **89g:76005**

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Manley, O. *see* **Foiaş, Ciprian; et al., 89h:76022**

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Marra, R. *see* **Esposito, Raffaele; et al., 89k:35181**

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McNamara, Guy R. *see* **Kadanoff, Leo P.; et al., 89c:76013**

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Métivet, Brigitte *see* **Bernardi, Christine; et al., 89f:65118**

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Mulone, G. *see* **Rionero, S., 89f:35171**

Nishida, Takaaki Analysis of fluid equations. Free surface problems. (Japanese) **89h:35354**

Nishitani, Toshiyuki Similarity transformations of compressible viscous flow in conservative force fields. I. Two-dimensional problem. **89c:76079**

Nosenchuck, D. M. (*with* Krist, S. E.; Zang, T. A.) On multigrid methods for the Navier-Stokes computer. **89k:76007**

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Orihara, Akio On the statistical solutions of Navier-Stokes equation. **89b:35139**

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Payne, L. E. On geometric and modeling perturbations in partial differential equations. **89b:35011**

Peskin, Charles S. *see* **Greenberg, Steven; et al., 89a:76002** *and* **Börgers, Christoph, 89c:76007**

Peterson, Janet S. *see* **Gunzburger, Max D., 89i:76010**

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Pulvirenti, Mario *see* **Esposito, Raffaele; et al., 89k:35181**

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Rivet, Jean-Pierre *see* **Frisch, Uriel; et al., 89h:82031**

Rizzi, Arthur *see* **Eliasson, Peter; et al., (89j:35007)**

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Sheretov, Yu. V. *see* **Elizarova, T. G.**, **89e:35106**

Shmyglevskiĭ, Yu. D. An inversion of singularity in Navier-Stokes equations. (Russian) **89k:35189**

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Sohr, Hermann *see* **Miyakawa, Tetsuro**, **89m:35182**

Solomon, J. M. *see* **Szymczak, William G.; et al.**, **89k:65143**

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Soundalgekar, V. M. *see* **Takhar, H. S.; et al.**, **89e:76048**

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Temam, Roger ★ Infinite-dimensional dynamical systems in mechanics and physics. **89m:58056**

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— *see also* **Łukaszewicz, Grzegorz**, **89d:35142**

Turkel, Eli Algorithms for the Euler and Navier-Stokes equations for supercomputers. **89a:65140**

Ukai, Seiji *see* **Asano, Kiyoshi**, **89j:76072**

Vanka, S. P. *see* **Thompson, C. P.; et al.**, **89f:76013**

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Wang, Bao Guo On general form of Navier-Stokes equations and implicit factored scheme. **89c:76020**

Wick, W. David *see* **Presutti, Errico**, **89m:82029**

Williams, Anthony D. The development of an intelligent interface to a computational fluid dynamics flow-solver code. **89g:76001**

Ying, Long An Convergence study for viscous splitting in bounded domains. **89h:65163**

— The assumed deviatoric stress, pressure, velocity mixed finite element method with nonlinear momentum balance equation. (Chinese summary) **89e:65126**

Zanetti, Gianluigi *see* **Kadanoff, Leo P.; et al.**, **89c:76013**

Zang, T. A. *see* **Nosenchuck, D. M.; et al.**, **89k:76007**

Zaretti, A. *see* **Prouse, Giovanni**, **89k:35187**

Zhang, Wu (*with* Zhou, Tian Xiao) A mixed stiffness finite element method for Navier-Stokes equation. **89e:65127**

Zhou, Tian Xiao *see* **Zhang, Wu**, **89e:65127**

Zolésio, J.-P. *see* **Cannarsa, Piermarco; et al.**, **89m:49047**

76D07 Stokes flows

Avudainayagam, A. (*with* Jothiram, B.) A circle theorem for plane Stokes flows. **89i:76038**

Bernardi, Christine (*with* Maday, Yvon) A collocation method over staggered grids for the Stokes problem. **89j:76041**

Caflisch, Russel E. (*with* Lim, Chjan; Luke, Jonathan H. C.; Sangani, Ashok S.) Periodic solutions for three sedimenting spheres. **89i:76039**

Chervenivanova, E. (*with* Zapryanov, Z.) The slow motion of droplets perpendicular to a deformable flat fluid interface. **89m:76026**

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Lim, Chjan *see* **Caflisch, Russel E.; et al.**, **89i:76039**

Lister, John R. *see* **Jansons, Kalvis M.**, **89e:76038**

Luke, Jonathan H. C. *see* **Caflisch, Russel E.; et al.**, **89i:76039**

Maday, Yvon *see* **Bernardi, Christine**, **89j:76041**

Miranda, Guillermo *see* **Power, Henry**, **89m:76027**

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Sangani, Ashok S. *see* **Caflisch, Russel E.; et al.**, **89i:76039**

Shail, R. (*with* Warrilow, I. M.) The sedimentation of a small particle through a fluid-filled pore of finite length. **89i:76041**

Smith, S. H. A note on the Jeffery paradox. **89c:76048**

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Wilmott, P. *see* **Spence, D. A.**, **89i:76042**

Zapryanov, Z. *see* **Chervenivanova, E.**, **89m:76026**

Items with secondary classifications in 76D07

Balestra, M. *see* **Hughes, Thomas J. R.; et al.**, **89j:76015d** *and* **89j:76015e**

Bègue, Catherine (*with* Glowinski, R.; Périaux, Jacques) Détermination d'un opérateur de préconditionnement pour la résolution itérative du problème de Stokes dans la formulation d'Helmholtz. (English summary) [A preconditioning operator for the iterative solution of the Stokes problem via the Helmholtz formulation] **89d:35191**

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Brezzi, F. (*with* Douglas, Jim, Jr.) Stabilized mixed methods for the Stokes problem. **89g:65138**

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Camarero, Ricardo *see* **Pelletier, Dominique; et al.**, **89j:76024**

Chabard, J.-P. *see* **Cahouet, J.**, **89i:76005** *and* **(89c:65004)**

Crouzeix, Michel (*with* Falk, Richard S.) Nonconforming finite elements for the Stokes problem. **89i:65113**

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Fortin, Andre *see* **Pelletier, Dominique; et al.**, **89j:76024**

Franca, Leopoldo P. *see* **Hughes, Thomas J. R.; et al.**, **89j:76015d**; **89j:76015e** *and* **89j:76015g**

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Karageorghis, Andreas *see* **Phillips, T. N.**, **89m:65103**

Maday, Yvon *see* **Bernardi, Christine**, **89g:76005**

Mazur, Peter *see* **Geigenmüller, U.**, **89k:76092**

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Wang, Jun Ping *see* **Douglas, Jim, Jr., 89j:65069**

76D08 Lubrication theory

Agorzie, C. J. *see* **Ayeni, R. O.; et al., 89e:76040**
Ayeni, R. O. (*with* Okoya, S. S.; Agorzie, C. J.) On the dissipation layer of radial bearings. **89e:76040**
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— *see also* **Chambat, M.; et al., 89i:76044**
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— *see also* **Bayada, G., 89i:76043**
Faure, J. B. *see* **Chambat, M.; et al., 89i:76044**
Oden, J. T. *see* **Wu, Shen Rong**^{2}**, 89a:76027**
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Burmistrov, A. N. (*with* Kovalev, V. P.) Asymptotic solution of the Whipple equation of gas lubrication for large compressibility numbers. **89i:76075**
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Kovalev, V. P. *see* **Burmistrov, A. N., 89i:76075**

76D10 Boundary-layer theory

Andrews, L. C. *see* **Vajravelu, K.; et al., 89i:76046**
Armfield, S. W. *see* **Fletcher, C. A. J., 89i:76045**
Banks, W. H. H. (*with* Zaturska, M. B.) Eigensolutions in boundary-layer flow adjacent to a stretching wall. (Not in MR)
Cowley, Stephen J. *see* **Page, Michael A., 89m:76028**
Daniels, P. G. *see* **Eagles, P. M.**, (Not in MR)
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Fletcher, C. A. J. (*with* Armfield, S. W.) Symbolic analysis of the reduced incompressible Navier-Stokes equations. **89i:76045**
Mohapatra, Ram Narayan *see* **Vajravelu, K.; et al., 89i:76046**
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Bradshaw, Peter *see* **Cebeci, Tuncer, 89i:76086a**
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(Gresho, Philip M.) *see* **Numerical methods in laminar and turbulent flow, 89f:78001**
Haj-Hariri, Hossein Transformations reducing the order of the parameter in differential eigenvalue problems. **89e:76009**
Hastings, S. P. (*with* Troy, William C.) Oscillating solutions of the Falkner-Skan equation for positive β. **89a:35164**
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Hultgren, Lennart S. *see* **Goldstein, M. E.**, (**89g:76002**)
Kythe, P. K. (*with* Puri, Pratap) Unsteady MHD free-convection flows on a porous plate with time-dependent heating in a rotating medium. **89h:76046**
Mikhaĭlov, V. V. *see* **Goryunova, G. I., 89e:76046**
Organ, A. E. (*with* Riley, N.) Magnetohydrodynamic boundary layers in Czochralski crystal growth. (Not in MR)
Puri, Pratap *see* **Kythe, P. K., 89h:76046**
Reed, Helen L. (*with* Saric, William S.) Stability of three-dimensional boundary layers. (*see* **89g:76002**)
Riley, N. *see* **Organ, A. E.**, (Not in MR)
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Smith, F. T. *see* **Brotherton-Ratcliffe, R. V., 89a:76036**
Stuart, J. T. Nonlinear Euler partial differential equations: singularities in their solution. (*see* **89f:76002**)
Su, Wenhan *see* **Cebeci, Tuncer, 89m:76029**
(Taylor, Cedric) *see* **Numerical methods in laminar and turbulent flow, 89f:78001**
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Toland, J. F. Existence and uniqueness of heteroclinic orbits for the equation $\lambda u''' + u' = f(u)$. **89j:34029**
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Montreal, PQ ★ Numerical methods in laminar and turbulent flow. **89f:78001**
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Numerical methods in laminar and turbulent flow ★ Numerical methods in laminar and turbulent flow. **89f:78001**

76D15 Boundary-layer separation and reattachment

Bretteville, Jacques (*with* Mauss, Jacques) Écoulement d'un fluide newtonien dans une conduite pour de grands nombres de Reynolds. (English summary) [Pipe flow of a Newtonian fluid at high Reynolds number] **89c:76051**
Cebeci, Tuncer (*with* Su, Wenhan) Separation of three-dimensional laminar boundary layers on a prolate spheroid. **89m:76029**
Mauss, Jacques *see* **Bretteville, Jacques, 89c:76051**
Smith, F. T. A reversed-flow singularity in interacting boundary layers. **89k:76037**
Su, Wenhan *see* **Cebeci, Tuncer, 89m:76029**

Items with secondary classifications in 76D15

Fleeter, S. *see* **Schroeder, L., 89e:76012**
Schroeder, L. (*with* Fleeter, S.) Locally analytic numerical method and application to viscous internal and external flows. **89e:76012**

76D20 Higher-order effects in boundary layers

Efremov, O. A. Development of the Tollmien-Schlichting wave in a boundary layer, on a plate. **89g:76025**
Zhuk, V. E. On forced oscillations in the boundary layer at frequencies near the upper branch of the neutral curve. **89f:76036**

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Bullister, Edward T. (*with* Orszag, Steven A.) Numerical simulation of turbulent spots in channel and boundary layer flows. **89c:76072**
Orszag, Steven A. *see* **Bullister, Edward T., 89c:76072**

76D25 Wakes and jets

Papageorgiou, D. T. (*with* Smith, F. T.) Nonlinear instability of the wake behind a flat plate placed parallel to a uniform stream. **89k:76038**
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Items with secondary classifications in 76D25

Clavin, Paul (*with* d'Humières, D.; Lallemand, P.; Pomeau, Y.) Automates cellulaires pour les problèmes à frontières libres en hydrodynamique à deux et trois dimensions. (English summary) [Cellular automata for hydrodynamics with free boundaries in two and three dimensions] **89k:76004**
Dean, Edward J. (*with* Glowinski, R.; Li, Chin Hsien) Applications of operator splitting methods to the numerical solution of nonlinear problems in continuum mechanics and physics. **89e:65060**
Glowinski, R. *see* **Dean, Edward J.; et al., 89e:65060**
d'Humières, D. *see* **Clavin, Paul; et al., 89k:76004**
Lallemand, P. *see* **Clavin, Paul; et al., 89k:76004**
Li, Chin Hsien *see* **Dean, Edward J.; et al., 89e:65060**
Pomeau, Y. *see* **Clavin, Paul; et al., 89k:76004**

76D30 Singular perturbation problems

Items with secondary classifications in 76D30

Huang, Lan Jie (*with* Shen, Jian Xiong) Numerical solution of the incompressible Navier-Stokes equations with singular perturbation considerations. **89k:76005**
Shen, Jian Xiong *see* **Huang, Lan Jie, 89k:76005**

76D33 Waves

Chu, Xiao-Lin *see* **Velarde, Manuel G., 89i:76047**
Grimshaw, R. *see* **Hooper, A., 89k:76039**
Hooper, A. (*with* Grimshaw, R.) Travelling wave solutions of the Kuramoto-Sivashinsky equation. **89k:76039**
Łęgowski, Z. (*with* Włodarczyk, E.) A method for increasing the smoothness of functions as applied for the construction of generalized solutions to stationary plane flow problems in the class of simple waves. (Russian and Polish summaries) **89k:76040**
Velarde, Manuel G. (*with* Chu, Xiao-Lin) The harmonic oscillator approach to sustained gravity-capillary (Laplace) waves at liquid interfaces. **89i:76047**
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Banerjee, Sanjoy *see* **Smereka, P., 89i:76092**
Barilaro, Maria (*with* Giambò, Sebastiano; Pantano, Pietro) Sur la diffraction transversale des ondes non linéaires dans un fluid visqueux relativiste. (English summary) [On the transverse diffraction of nonlinear waves in a relativistic viscous fluid] **89j:76094**
Batchelor, G. K. A new theory of the instability of a uniform fluidized bed. **89m:76066**
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Giambò, Sebastiano *see* **Barilaro, Maria; et al., 89j:76094**
Goldstein, M. E. (*with* Hultgren, Lennart S.) Boundary-layer receptivity to long-wave free-stream disturbances. (*see* **89g:76002**)
Grasman, J. *see* **Doelman, A.**, (**89g:58004**)
Hultgren, Lennart S. *see* **Goldstein, M. E.**, (**89g:76002**)
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Pantano, Pietro *see* **Barilaro, Maria; et al., 89j:76094**
Smereka, P. (*with* Banerjee, Sanjoy) The dynamics of periodically driven bubble clouds. **89i:76092**
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76D99 None of the above, but in this section

Badea, Ovidiu Un problème aux limites pour l'équation Poisson. (Romanian summary) [A boundary value problem for the Poisson equation] **89e:76042**
Baker, P. C. (*with* Poots, G.; Rodgers, G. G.) Ice accretion on cables of various cross sections. **89k:76041**
Bestman, A. R. Unsteady low Reynolds number flow in a heated tube of slowly varying section. **89k:76043**
Brenner, Howard *see* **Falade, Adebowale, 89k:76044**
Burdè, G. I. Some exact solutions of problems on laminar jets of immiscible fluids. **89j:76043**
Dzhaikbaev, A. M. On the well-posedness of a model of the motion of an inhomogeneous viscous incompressible fluid. (Russian) **89m:76030**
Falade, Adebowale (*with* Brenner, Howard) First-order wall curvature effects upon the Stokes resistance of a spherical particle moving in close proximity to a solid wall. **89k:76044**
Folk, Robert T. *see* **Goldberg, Irwin S., 89f:76037**
Fortin, Michel (*with* Souissi, A.) Optimisation de forme du diffuseur d'une turbine hydraulique. [Optimal shape design of the diffuser of a water turbine] **89k:76045**
Goldberg, Irwin S. (*with* Folk, Robert T.) Solutions for steady and nonsteady entrance flow in a semi-infinite circular tube at very low Reynolds numbers. **89f:76037**
Gol'dshtik, M. A. (*with* Shtern, V. N.) Conical flows of fluid with variable viscosity. **89j:76044**
Goncharova, O. N. A mathematical model of the formation of spherical shells under conditions of short-term weightlessness. (Russian) **89j:76045**
Krasnov, Yu. K. The evolution of "whirlwinds". (Russian) **89c:76052**
Lundgren, T. S. (*with* Mansour, N. N.) Oscillations of drops in zero gravity with weak viscous effects. **89m:76031**
L'vov, V. A. The viscosity tensor of a suspension of solid particles. (Russian. English summary) **89e:76043**
Mansour, N. N. *see* **Lundgren, T. S., 89m:76031**
Musaev, Z. A. A method for the integration of differential equations of the motion of a fluid with variable mass. (Russian. English and Azerbaijani summaries) **89c:76053**
Oroveanu, T. On a class of viscous fluid motions. **89e:76044**
Poots, G. *see* **Baker, P. C.; et al., 89k:76041** *and* **Skelton, P. L. I., 89k:76042**
Power, Henry On the Rallison and Acrivos solution for the deformation and burst of a viscous drop in an extensional flow. **89c:76054**
Prouse, Giovanni (*with* Rolandi, Francesca; Zaretti, A.) On a mathematical model describing interaction between two classical gravitational fields. (Italian summary) **89c:76055**
Rabinovich, B. I. Equations of the dynamics of a rigid body containing a whirled fluid of small viscosity. (Russian) **89g:76026**
Rodgers, G. G. *see* **Baker, P. C.; et al., 89k:76041**
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Rukmangadachari, E. A model of a paint-brush for a curved surface. (Not in MR)
Sánchez-Palencia, Enrique Problèmes mathématiques liés à l'écoulement d'un fluide visqueux à travers une grille. [Mathematical problems associated with viscous fluid flow through a grid] **89a:76029**
Serre, D. Chute libre d'un solide dans un fluide visqueux incompressible. Existence. (English summary) [Free fall of a rigid body in an incompressible viscous fluid. Existence] **89m:76032**
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Skelton, P. L. I. (*with* Poots, G.) Approximate predictions of ice accretion on an overhead transmission line which rotates with constant angular velocity. **89k:76042**
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Yakimov, Yu. L. Limit flows of water. (Russian) **89e:76045**
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Brochard, Françoise (*with* Redon, Claude; Rondelez, Francis) Démouillage: régime de gravité. (English summary) [Dewetting: the gravity controlled regime] **89j:76035**
Durán, R. (*with* Nochetto, Ricardo H.; Wang, Jun Ping) Sharp maximum norm error estimates for finite element approximations of the Stokes problem in 2-D. **89b:65261**
Felderhof, B. U. (*with* Jones, Robert B.) Convective motion and transfer of force by many-body hydrodynamic interaction. **89c:76105**
Fowler, A. C. A mathematical analysis of glacier surges. **89m:86025**
Frisch, Uriel (*with* Rivet, Jean-Pierre) Gaz sur réseau pour l'hydrodynamique: formule de Green-Kubo. (English summary) [Lattice gas hydrodynamics: the Green-Kubo formula] **89k:82048**
Fursikov, A. V. *see* **Vishik, M. I., 89h:35271**
Gol'dshtik, M. A. Paradoxes of viscous flows. (Russian) **89g:76024**
Golubovskaya, G. I. Solvability of the first boundary value problem for a quasilinear elliptic equation. (Russian) **89b:35050**
Greywall, Mahesh S. Streamwise computation of three-dimensional incompressible potential flows. **89e:76008**
Hall, Philip^2 (*with* Smith, F. T.) The nonlinear interaction of Tollmien-Schlichting waves and Taylor-Görtler vortices in curved channel flows. **89f:76038**
Hebeker, F.-K. Efficient boundary element methods for three-dimensional exterior viscous flows. **89c:76011**
Hsiao, G. C. Boundary element methods for a class of exterior singular perturbation problems. **89g:76008**
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Kholopova, V. V. *see* **Puchka, G. N., 89i:70016**
Kleinstein, Gerald G. On the nonpersistence of irrotational motion in a viscous heat-conducting fluid. **89c:76024**
Koda, Masato Sensitivity analysis of a descriptor distributed parameter system and its application to shape optimization. **89m:93025**
(Krause, Bernd) *see* **Vishik, M. I., 89h:35271**
Logan, W. T. (*with* Visscher, P. B.) Extraction of transport coefficients from correlation functions. **89k:82064**
L'vov, V. A. Averaged description of the motion of a suspension in an approximation of a one-velocity continuum with an orientable substructure. (Russian. English summary) **89i:35119**
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Melander, M. V. (*with* Zabusky, N. J.; McWilliams, J. C.) Symmetric vortex merger in two dimensions: causes and conditions. **89m:76023**
Migdal, A. A. The Fokker-Planck vortex equation. (Russian) **89d:76015**
Morriss, G. P. Dimensional contraction in nonequilibrium systems. **89j:82030**
Nariboli, G. A. Bäcklund transformation of a "variable viscosity" Burgers equation. **89c:58147**
Ngo Duy Can Some new problems in the theory of the motion of a body containing a fluid. (Russian. English summary) **89h:76009**
Nochetto, Ricardo H. *see* **Durán, R.; et al., 89b:65261**
Peterson, Mark A. Nonuniqueness in singular viscous fingering. **89j:82094**
Puchka, G. N. (*with* Kholopova, V. V.) Nonlinear oscillations of an ellipsoid with a fluid containing spherical inclusions. **89i:70016**
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She, Z.-S. *see* **Yakhot, Victor, 89d:35173**
Smith, F. T. *see* **Hall, Philip^2, 89f:76038**
Spence, D. A. (*with* Wilmott, P.) Rotation and deformation of a viscous inclusion in Stokes flow. **89i:76042**
Tosaka, N. New integral formulations for continuum mechanics. **89k:73009**
Vishik, M. I. (*with* Fursikov, A. V.) ★ Mathematische Probleme der statistischen Hydromechanik. (German) [Mathematical problems of statistical hydromechanics] **89h:35271**
Visscher, P. B. *see* **Logan, W. T., 89k:82064**
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Yakhot, Victor (*with* She, Z.-S.) Long-time, large-scale properties of the random-force-driven Burgers equation. **89d:35173**
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76Exx Hydrodynamic stability

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Craik, A. D. D. ★ Wave interactions and fluid flows. **89j:76001**
Debnath, Lokenath Bifurcation and nonlinear instability in applied mathematics. **89h:58141**

76E05 Stability of parallel flows

Baldwin, Paul Errata: "Uniform asymptotic approximations to solutions of the Orr-Sommerfeld equation for the asymptotic suction boundary layer profile" [Proc. Roy. Soc. London Ser. A **399** (1985), no. 1817, 321–365; MR 87a:76055]. **89i:76048**

Banerjee, Mihir B. (*with* Gupta, J. R.; Subbiah, M.) On reducing Howard's semicircle for homogeneous shear flows. **89a:76030**
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Goldstein, M. E. (*with* Hultgren, Lennart S.) Boundary-layer receptivity to long-wave free-stream disturbances. (*see* **89g:76002**)
Goryunova, G. I. (*with* Mikhaĭlov, V. V.) Possibilities of increasing the stability of a laminar boundary layer on a compliant surface. (Russian) **89e:76046**
Gupta, J. R. *see* **Banerjee, Mihir B.; et al., 89a:76030**
Hall, Philip^2 (*with* Smith, F. T.) The nonlinear interaction of Tollmien-Schlichting waves and Taylor-Görtler vortices in curved channel flows. **89f:76038**
Hultgren, Lennart S. *see* **Goldstein, M. E., (89g:76002)**
Knobloch, Edgar *see* **Lerner, J., 89c:76057**
Lerner, J. (*with* Knobloch, Edgar) The long-wave instability of a defect in a uniform parallel shear. **89c:76057**
Mikhaĭlov, V. V. *see* **Goryunova, G. I., 89e:76046**
Pugh, J. D. (*with* Saffman, P. G.) Two-dimensional superharmonic stability of finite-amplitude waves in plane Poiseuille flow. **89m:76033**
Reed, Helen L. (*with* Saric, William S.) Stability of three-dimensional boundary layers. (*see* **89g:76002**)
Saffman, P. G. *see* **Pugh, J. D., 89m:76033**
Saric, William S. *see* **Reed, Helen L., (89g:76002)**
Smith, F. T. *see* **Hall, Philip^2, 89f:76038**
Subbiah, M. *see* **Banerjee, Mihir B.; et al., 89a:76030**
Vasil'ev, M. M. On the splitting of eigenvalues in some problems on the stability of the flow of a viscous fluid on a plane torus. (Russian) **89k:76046**
Vladimirov, V. A. Conditions for the stability of flows of an ideal fluid with vorticity discontinuities. **89f:76039**

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Bozduganov, Ivan D. Solution of the Orr-Sommerfeld boundary value problem by the matrix double-sweep method. (Bulgarian. English summary) **89e:76002**
Clavin, Paul (*with* d'Humières, D.; Lallemand, P.; Pomeau, Y.) Automates cellulaires pour les problèmes à frontières libres en hydrodynamique à deux et trois dimensions. (English summary) [Cellular automata for hydrodynamics with free boundaries in two and three dimensions] **89k:76004**
Djordjević, V. D. (*with* Redekopp, L. G.) Linear stability analysis of nonhomentropic, inviscid compressible flows. **89i:76073**
Hase, Kenji *see* **Ito, Tadaya; et al., 89k:76032**
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d'Humières, D. *see* **Clavin, Paul; et al., 89k:76004**
Ito, Tadaya (*with* Suematsu, Yoshikazu; Hase, Kenji; Hayase, Toshiyuki) Distribution patterns of eigenvalues of laminar pipe flow (classification of modes based on dynamics of the system). **89k:76032**
Kachoyan, B. J. The finite Dean problem: nonlinear theory. **89k:76058**
Karpov, V. Ya. A method for calculating Rayleigh-Taylor instability in Euler variables. (Russian) **89j:76018**
Kaul, Upender K. Do large structures control their own growth in a mixing layer? An assessment. **89m:76047**
Lallemand, P. *see* **Clavin, Paul; et al., 89k:76004**
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Takahashi, Hiroyuki *see* **Watanabe, Jiro, 89i:34026**
Watanabe, Jiro (*with* Takahashi, Hiroyuki) An equivalent representation of the eigenvalue problem for axisymmetric disturbances. **89i:34026**
Zharov, V. A. On the wave theory of a developed turbulent boundary layer. (Russian) **89f:76053**

76E10 Inertial instability

Aref, H. (*with* Tryggvason, Grétar) Model of Rayleigh-Taylor instability. **89k:76047**
Blennerhassett, P. J. *see* **Kachoyan, B. J., 89k:76048**
Iooss, G. *see* **Signoret, F., 89m:76034**
Kachoyan, B. J. (*with* Blennerhassett, P. J.) On the finite Dean problem: linear theory. **89k:76048**
Nagata, Masato On wavy instabilities of the Taylor-vortex flow between corotating cylinders. **89c:76058**
Signoret, F. (*with* Iooss, G.) Une singularité de codimension 3 dans le problème de Couette-Taylor. (English summary) [A codimension-3 singularity in the Taylor-Couette problem] **89m:76034**
Tryggvason, Grétar *see* **Aref, H., 89k:76047**

Items with secondary classifications in 76E10

Sozou, C. On some wave solutions in a differentially rotating polytropic gas. **89m:76055**

76E15 Convective instability

Afraĭmovich, V. S. (*with* Vozovoĭ, L. P.) A mechanism for generating a two-dimensional torus during the loss of stability in the equilibrium state. (Not in MR)
Agrawal, Suresh Chandra *see* **Saini, Jagdish**, (Not in MR)
Alexander, J. Iwan D. *see* **McFadden, G. B.; et al., 89f:76042**
Ali, Mohammed Abdulla *see* **Takhar, H. S.; et al., 89e:76048**
Alziary de Roquefort, Thierry *see* **Le Quere, Patrick, 89c:76061**
Bagnoli, F. (*with* Ciliberto, S.; Francescato, A.; Livi, R.; Ruffo, Stefano) Cellular automaton model for a fluid experiment. (*see* **89g:58144**)
Besnard, Didier (*with* Harlow, Francis H.; Johnson, Norman Lee; Rauenzahn, Rick; Wolfe, Jonathan) Instabilities and turbulence. (*see* **89m:01133a**)
Bhattacharjee, Jayanta K. Hopf bifurcation in a binary liquid: exact upper bound on the frequency. **89c:76059**
— (*with* McKane, A. J.) Lorenz model for the rotating Rayleigh-Bénard problem. **89f:76040**
Bigazzi, P. *see* **Rubio, M. A.; et al., 89i:76051**
Bodenschatz, E. *see* **Kramer, Lorenz; et al., (89f:76003)**
Borckmans, P. (*with* Dewel, G.) Chemical structures and convection. (*see* **89g:92002**)
Boudourides, M. A. Adiabatic annular shear flows with temperature-dependent viscosity. **89j:76046**
— (*with* Charalambakis, Nicolas Ch.) Asymptotic stability of a stratified multicomponent flow with temperature-dependent viscosities. (French summary) **89h:76016**
Caltagirone, Jean-Paul (*with* Fabrie, Pierre; Combarnous, Michel) De la convection naturelle oscillante en milieu poreux au chaos temporel? (English summary) [From oscillating natural convection in porous media to chaos?] (Not in MR)
Cannell, David S. (*with* Meyer, Christopher W.) Introduction to convection. (*see* **89j:00034**)
Chana, M. S. (*with* Daniels, P. G.) Onset of Rayleigh-Bénard convection in a rigid channel. **89m:76035**
Charalambakis, Nicolas Ch. *see* **Boudourides, M. A., 89h:76016**
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Cliffe, K. A. *see* **Winters, K. H.; et al., 89f:76045**
Combarnous, Michel *see* **Caltagirone, Jean-Paul; et al.**, (Not in MR)
Coriell, S. R. *see* **McFadden, G. B.; et al., 89f:76042**
Coullet, P. (*with* Gil, L.; Lega, J.) Transitions in systems far from equilibrium: a Ginzburg-Landau approach. **89m:76036**
Crawford, John David *see* **Riecke, Hermann; et al., 89h:76017**
Cross, M. C. Theoretical methods in pattern formation in physics, chemistry and biology. (*see* **89j:82002**)
— (*with* Kim, Kihong) Linear instability and the codimension-2 region in binary fluid convection between rigid impermeable boundaries. **89c:76060**
Daniels, P. G. *see* **Chana, M. S., 89m:76035**
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Dubois, Monique Dynamic of Rayleigh-Benard spatial configurations in confined geometry. **89i:76049**
Fabrie, Pierre *see* **Caltagirone, Jean-Paul; et al.**, (Not in MR)
Francescato, A. *see* **Bagnoli, F.; et al., (89g:58144)**
Ghidaglia, Jean-Michel Generalized Lieb-Thirring inequalities and the dimension of attractors associated to the Ginzburg-Landau p.d.e. (*see* **89g:58004**)
Gil, L. (*with* Lega, J.) Defects in waves. (*see* **89f:76003**)
— *see also* **Coullet, P.; et al., 89m:76036**
Goldhirsch, I. (*with* Pelz, Richard B.; Orszag, Steven A.) Numerical simulation of thermal convection in a two-dimensional finite box. **89k:76049**
Harlow, Francis H. *see* **Besnard, Didier; et al., (89m:01133a)**
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Joseph, Daniel D. Two fluids heated from below. **89e:76047**
Kawasaki, Kyozi *see* **Ohta, Takao, 89i:76050**
Kim, Kihong *see* **Cross, M. C., 89c:76060**
Knobloch, Edgar *see* **Riecke, Hermann; et al., 89h:76017** *and* **Silber, Mary, 89i:76052**
Kramer, Lorenz (*with* Zimmermann, Walter Josef; Bodenschatz, E.; Pesch, W.) Pattern selection in convective instabilities with axial anisotropy. (*see* **89f:76003**)
Lega, J. *see* **Coullet, P.; et al., 89m:76036** *and* **Gil, L., (89f:76003)**
Lennie, T. B. (*with* McKenzie, D. P.; Moore, D. R.; Weiss, N. O.) The breakdown of steady convection. **89c:76062**
Le Quere, Patrick (*with* Alziary de Roquefort, Thierry) Sur l'existence de solutions périodiques multiples aux équations de Boussinesq. (English summary) [On the existence of multiple periodic solutions of the Boussinesq equations] **89c:76061**
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McKane, A. J. *see* **Bhattacharjee, Jayanta K., 89f:76040**
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Meyer, Christopher W. *see* **Cannell, David S., (89j:00034)**
Moore, D. R. *see* **Lennie, T. B.; et al., 89c:76062**
Moroz, I. M. Interacting steady and oscillatory rolls in triple convection. **89f:76043**
Murphy, J. O. *see* **Lopez, Juan Manuel, 89f:76041**
Newell, A. C. The dynamics of patterns: a survey. **89k:76050**
Ohta, Takao (*with* Kawasaki, Kyozi) Euclidean invariant phase dynamics for propagating pattern. **89i:76050**
Orszag, Steven A. *see* **Goldhirsch, I.; et al., 89k:76049**
Pelz, Richard B. *see* **Goldhirsch, I.; et al., 89k:76049**
Pesch, W. *see* **Kramer, Lorenz; et al., (89f:76003)**
Plesser, Th. *see* **Winters, K. H.; et al., 89f:76045**
Pocheau, A. Transition à la turbulence des écoulements convectifs en géométrie cylindrique. (English summary) [Transition to turbulence of convective flows in a cylindrical container] **89k:76051**
Rauenzahn, Rick *see* **Besnard, Didier; et al., (89m:01133a)**
Renardy, Michael (*with* Renardy, Yuriko) Bifurcating solutions at the onset of convection in the Bénard problem for two fluids. **89m:76037**
Renardy, Yuriko *see* **Renardy, Michael, 89m:76037**
Riahi, N. Nonlinear Benard-Marangoni convection. **89a:76031**
Riecke, Hermann (*with* Crawford, John David; Knobloch, Edgar) Time-modulated oscillatory convection. **89h:76017**
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Sharma, K. C. *see* **Sharma, R. C., 89g:76027**

Sharma, R. C. (*with* Sharma, K. C.) Thermal instability of compressible fluids with Hall currents through porous medium. (Turkish summary) **89g:76027**

Silber, Mary (*with* Knobloch, Edgar) Pattern selection in steady binary-fluid convection. **89i:76052**

Simonenko, I. B. *see* **Zen′kovskaya, S. M., 89k:76052**

Soundalgekar, V. M. *see* **Takhar, H. S.; et al., 89e:76048**

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Weiss, N. O. *see* **Lennie, T. B.; et al., 89c:76062**

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Wolfe, Jonathan *see* **Besnard, Didier; et al., (89m:01133a)**

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Zimmermann, Walter Josef *see* **Kramer, Lorenz; et al., (89f:76003)**

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Alstrøm, Preben (*with* Trunfio, Paul; Stanley, H. E.) Self-organized criticality: the origin of fractal growth. (*see* **89j:00034**)

Bassom, A. P. (*with* Gajjar, J. S. B.) Nonstationary cross-flow vortices in three-dimensional boundary-layer flows. **89e:76036**

Bell, J. B. *see* **Szymczak, William G.; et al., 89k:65143**

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Broomhead, D. S. (*with* Ryrie, Susan C.) Particle paths in wavy vortices. **89e:76029**

Busse, F. H. Patterns of bifurcation from spherically symmetric states. **89e:58028**

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Coullet, P. (*with* Spiegel, E. A.) Evolution equations for extended systems. **89i:76057**

Demay, Y. *see* **Laure, P., 89i:76002**

Drazin, Philip G. Perturbations of Jeffery-Hamel flows. (*see* **89f:76002**)

Gajjar, J. S. B. *see* **Bassom, A. P., 89e:76036**

Gaponov-Grekhov, A. V. (*with* Rabinovich, M. I.) Autostructures. The chaotic dynamics of ensembles. (Russian) **89f:76054**

Glazier, James A. (*with* Libchaber, Albert) Quasi-periodicity and dynamical systems: an experimentalist's view. **89m:58179**

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Hill, N. A. *see* **Pedley, T. J.; et al., 89m:92004**

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Kaushal, M. B. *see* **Gupta, J. R., 89j:76048**

Kessler, J. O. *see* **Pedley, T. J.; et al., 89m:92004**

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Libchaber, Albert *see* **Glazier, James A., 89m:58179**

Malomed, B. A. Bifurcations and autowaves. (Russian) **89e:58031**

Mørriss, G. P. Lyapunov dimension of two-body planar Couette flow. **89b:82073**

Ngo Duy Can Some new problems in the theory of the motion of a body containing a fluid. (Russian. English summary) **89h:76009**

Palm, Enok *see* **Tveitereid, Morten; et al., 89c:58094**

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Rabinovich, M. I. *see* **Gaponov-Grekhov, A. V., 89f:76054**

Riahi, N. *see* **Busse, F. H., 89c:58086**

Roux, Bernard *see* **Wadih, M., 89k:76086**

Ryrie, Susan C. *see* **Broomhead, D. S., 89e:76029**

Schuster, Heinz Georg ★ Deterministic chaos. **89h:58131**

Skogvang, Arnljot *see* **Tveitereid, Morten; et al., 89c:58094**

Solomon, J. M. *see* **Szymczak, William G.; et al., 89k:65143**

Song, J. C. *see* **Payne, L. E.; et al., 89k:76091**

Spiegel, E. A. *see* **Coullet, P., 89i:76057**

Stanley, H. E. *see* **Alstrøm, Preben; et al., (89j:00034)**

Straughan, B. *see* **Payne, L. E.; et al., 89k:76091**

Sun, Yi Sui *see* **Zhang, Tian Ling, 89i:58064**

Swinney, Harry L. *see* **Vastano, John A., 89d:58089**

Szymczak, William G. (*with* Solomon, J. M.; Berger, A. E.; Bell, J. B.) Multiple discrete solutions of the incompressible steady-state Navier-Stokes equations. **89k:65143**

Terauti, Ryutaro *see* **Katayama, Yoshishige, (Not in MR)**

Trunfio, Paul *see* **Alstrøm, Preben; et al., (89j:00034)**

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Wadih, M. (*with* Roux, Bernard) Natural convection in a long vertical cylinder under gravity modulation. **89k:76086**

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76E20 Instability of geophysical and astrophysical flows

Bestman, A. R. Transient flow of a radiating gas between concentric spheres. (Not in MR)

Boubnov, B. M. (*with* Golitsyn, G. S.) Influence of vertical stratification on motion in a differentially heated rotating annulus. **89f:76046**

Brevdo, Leonid A study of absolute and convective instabilities with an application to the Eady model. **89c:76063**

Briscolini, M. *see* **Carnevale, G. F.; et al., 89k:76053**

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Gledzer, E. B. (*with* Glukhovskiĭ, A. B.) Criteria for the stability of stationary solutions of discrete chains of cascade type. (Russian) **89b:76011**

Glukhovskiĭ, A. B. *see* **Gledzer, E. B., 89b:76011**

Golitsyn, G. S. *see* **Boubnov, B. M., 89f:76046**

Horák, Jiří Predictability of fluid mechanical fields. **89a:76033**

Maslowe, S. A. *see* **Collins, D. A., 89m:76038**

Purini, R. *see* **Carnevale, G. F.; et al., 89k:76053**

Skiba, Yu. N. *see* **Dymnikov, V. P., 89a:76032** *and* **89m:76039**

Vallis, G. K. *see* **Carnevale, G. F.; et al., 89k:76053**

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Aly, J. J. *see* **Amari, T., 89j:76086**

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Lin, Chia Chiao *see* **Bertin, G.; et al., (Not in MR)**

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Malkov, E. A. *see* **Kondrat′ev, B. P., 89f:85001**

Peltier, W. R. *see* **Laprise, R., 89m:86007; 89m:86008** *and* **89m:86009**

Rionero, S. On the choice of the Lyapunov function in the stability of fluid motions. **89j:76050**

Thurstans, R. P. *see* **Bertin, G.; et al., (Not in MR)**

76E25 Magnetohydrodynamic and electrohydrodynamic instabilities

Adzhemyan, L. Ts. (*with* Vasil′ev, A. N.; Gnatich, M.) A turbulent dynamo as the spontaneous breakdown of symmetry. (Russian. English summary) **89d:76017**

Bessis, Daniel *see* **Handy, Carlos R.; et al., 89d:76018**

Chen, James (*with* Lee, Yee Chun) A quadratic-form analysis of the collisionless tearing mode. **89h:76018**

El-Dabe, Nabile T. M. Electrohydrodynamic stability of two superposed elasticoviscous liquids in plane Couette flow. **89a:76034**

Gnatich, M. *see* **Adzhemyan, L. Ts.; et al., 89d:76017**

Gupta, Indu *see* **Sengar, R. S.; et al., 89f:76048**

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Kaushal, M. B. *see* **Gupta, J. R., 89j:76047** *and* **89j:76048**

Knobloch, Edgar *see* **Silber, Mary, 89c:76064**

Lee, Yee Chun *see* **Chen, James, 89h:76018**

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Singh, D. B. *see* **Sengar, R. S.; et al., 89f:76048**

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Williams, Robert M. *see* **Handy, Carlos R.; et al., 89d:76018**

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Ågren, Olov An analytical solution of the linearized Vlasov equation for nearly rigid displacements. **89m:76073**

Aly, J. J. *see* **Amari, T., 89j:76086**

Amari, T. (*with* Aly, J. J.) Interaction between a line current and a two-dimensional constant-α force-free field: an analytical model for quiescent prominences. **89j:76086**

Bodenschatz, E. *see* **Kramer, Lorenz; et al., (89f:76003)**

Briscolini, M. *see* **Carnevale, G. F.; et al., 89k:76053**

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Chernenko, I. V. *see* **Chernousenko, V. M.; et al., 89g:76022**

Chernousenko, V. M. (*with* Chernenko, I. V.; Yan'kov, V. V.) Two-dimensional vortices in plasma and fluid. **89g:76022**

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Huba, J. D. *see* **Drake, J. F.; et al., 89i:86014**

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Mulbrandon, M. *see* **Drake, J. F.; et al., 89i:86014**

Pagani, Enrico *see* **Marchioro, Carlo, 89h:35308**

Pesch, W. *see* **Kramer, Lorenz; et al., (89f:76003)**

Purini, R. *see* **Carnevale, G. F.; et al., 89k:76053**

Raĭkov, G. D. On the asymptotics of the negative eigenvalues for an axisymmetric ideal magnetohydrodynamic model. (French summary) **89f:76083**

Rebhan, E. *see* **Kratzsch, K. A., 89c:76118**

Reusch, Michael F. Free boundary skin current magnetohydrodynamic equilibria. **89i:76097**

Rionero, S. On the choice of the Lyapunov function in the stability of fluid motions. **89j:76050**

Roberts, P. H. *see* **Fearn, D. R.; et al., 89i:76095**

Schamel, H. On the stability of localized electrostatic structures. **89e:76087**

Sharma, K. C. *see* **Sharma, R. C., 89g:76027**

Sharma, R. C. (*with* Sharma, K. C.) Thermal instability of compressible fluids with Hall currents through porous medium. (Turkish summary) **89g:76027**

Shukhman, I. G. *see* **Churilov, S. M., 89m:76041**

Shumkina, T. S. *see* **Sokolov, D. D., 89i:82046**

Sokolov, D. D. (*with* Shumkina, T. S.) The structure of the moments of a scalar field in a random medium. (Russian) **89i:82046**

Soward, A. M. *see* **Fearn, D. R.; et al., 89i:76095**

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Vallis, G. K. *see* **Carnevale, G. F.; et al., 89k:76053**

White, Andrew B., Jr. *see* **Miller, Guthrie; et al., 89i:76103**

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Yan'kov, V. V. *see* **Chernousenko, V. M.; et al., 89g:76022**

Zharov, V. A. On the wave theory of a developed turbulent boundary layer. (Russian) **89f:76053**

Zimmermann, Walter Josef *see* **Kramer, Lorenz; et al., (89f:76003)**

76E30 Nonlinear effects

Afendikov, A. L. Some remarks on the loss of stability of flows of a viscous incompressible fluid. (Russian) **89i:76055**

Artola, Miguel *see* **Majda, A., 89f:76051**

Berger, Stanley A. *see* **Hamakiotes, Costas C., 89k:76057**

Brotherton-Ratcliffe, R. V. (*with* Smith, F. T.) Complete breakdown of an unsteady interactive boundary layer (over a surface distortion or in a liquid layer). **89a:76036**

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Charalambakis, Nicolas Ch. Nonuniformities and stability in thermal fluid mechanics. **89k:76056**

Chen, Feng Su (*with* Hsieh, Din Yu) A model study of stability of Couette flow. (Chinese. English summary) **89i:76056**

Chen, H. B. *see* **Lin, Sung P.; et al., (89f:76002)**

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Coullet, P. (*with* Spiegel, E. A.) Evolution equations for extended systems. **89i:76057**

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Goldstein, M. E. (*with* Leib, S. J.) Nonlinear roll-up of externally excited free shear layers. **89m:76043**

Guillopé, C. (*with* Joseph, Daniel D.; Nguyen, K.; Rosso, F.) Nonlinear stability of rotating flow of two fluids. (French summary) **89a:76037**

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Hamakiotes, Costas C. (*with* Berger, Stanley A.) Period tripling in periodic flows through curved pipes. **89k:76057**

Hogan, S. J. The superharmonic normal mode instabilities of nonlinear deep-water capillary waves. **89m:76044**

Hsieh, Din Yu *see* **Chen, Feng Su, 89i:76056**

Huerre, P. Instabilités hydrodynamiques non linéaires et chaos déterministe. [Nonlinear hydrodynamical instabilities and deterministic chaos] **89f:76050**

— On the absolute/convective nature of primary and secondary instabilities. **89m:76045**

Infeld, E. (*with* Rowlands, George) Simple model for the nonlinear evolution of the Rayleigh-Taylor instability. **89c:76065**

Jones, Christopher Andrew *see* **Proctor, M. R. E., 89d:76019**

Joseph, Daniel D. *see* **Guillopé, C.; et al., 89a:76037**

Kachoyan, B. J. The finite Dean problem: nonlinear theory. **89k:76058**

Koch, Werner Nonlinear limit-cycle solutions—a rational method for transition prediction in shear flows? **89j:76049**

Lakin, W. D. *see* **Hall, Philip^2, (89f:76002)**

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Leib, S. J. *see* **Goldstein, M. E., 89m:76043**

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Marchioro, Carlo *see* **Caprino, S., 89b:76012**

Murakami, Youichi Second harmonic resonance on the marginally neutral curve in the Kelvin-Helmholtz flow. **89f:76052**

Nguyen, K. *see* **Guillopé, C.; et al., 89a:76037**

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Renardy, Yuriko Instabilities in steady flows of two fluids. **89i:76058**

Rionero, S. On the choice of the Lyapunov function in the stability of fluid motions. **89j:76050**

Rosso, F. *see* **Guillopé, C.; et al., 89a:76037**

Rowlands, George *see* **Infeld, E., 89c:76065**

Shukhman, I. G. *see* **Churilov, S. M., 89m:76041**

Smith, F. T. *see* **Brotherton-Ratcliffe, R. V., 89a:76036**

Spiegel, E. A. *see* **Coullet, P., 89i:76057**

Tobak, M. *see* **Lin, Sung P.; et al., (89f:76002)**

Yang, Yi Song On the Lagrange stability of spatially periodic solutions of the Ginzburg-Landau equation. **89h:76019**

Items with secondary classifications in 76E30

Akylas, T. R. (*with* Toplosky, N.) Nonlinear stability of rotating pipe flow. (*see* **89f:76002**)

Armbruster, D. (*with* Guckenheimer, John; Holmes, Philip) Heteroclinic cycles and modulated travelling waves in systems with O(2) symmetry. **89h:58136**

Ashurst, W. T. *see* **Lundgren, T. S., 89m:76022**

Betancourt, Octavio BETAS, a spectral code for three-dimensional magnetohydrodynamic equilibrium and nonlinear stability calculations. **89h:76045**

Bodenschatz, E. *see* **Kramer, Lorenz; et al., (89f:76003)**

Chossat, P. (*with* Demay, Y.; Iooss, G.) Competition of azimuthal modes and quasiperiodic flows in the Couette-Taylor problem. **89m:35176**

Collins, D. A. (*with* Maslowe, S. A.) Vortex pairing and resonant wave interactions in a stratified free shear layer. **89m:76038**

Constantin, Peter (*with* Titi, E. S.) On the evolution of nearly circular vortex patches. **89i:76033**

Crawford, John David (*with* Knobloch, Edgar) Classification and unfolding of degenerate Hopf bifurcations with O(2) symmetry: no distinguished parameter. **89j:58091**

Dangelmayr, G. (*with* Knobloch, Edgar) On the Hopf bifurcation with broken O(2) symmetry. **89m:58152**

Deane, A. E. *see* **Knobloch, Edgar; et al.**, (**89b:58064**)

Demay, Y. *see* **Chossat, P.; et al.**, **89m:35176**

Doelman, A. (*with* Grasman, J.) Low order spectral models in hydrodynamics. (*see* **89g:58004**)

Ebin, David G. Ill-posedness of the Rayleigh-Taylor and Helmholtz problems for incompressible fluids. **89h:55026**

Efremov, O. A. Development of the Tollmien-Schlichting wave in a boundary layer, on a plate. **89g:76025**

Elmer, F. J. Nonlinear and nonlocal dynamics of spatially extended systems: stationary states, bifurcations and stability. **89k:35032**

Franceschini, Valter (*with* Tebaldi, Claudio) Truncations to 12, 14 and 18 modes of the Navier-Stokes equations on a two-dimensional torus. (Italian summary) **89i:76037**

— (*with* Giberti, Claudio; Nicolini, Marco) Common periodic behavior in larger and larger truncations of the Navier-Stokes equations. **89f:76032**

Galaktionov, E. V. (*with* Silbergleit, Alexander Samuel) ★ On the theory of the limiting behaviour and stability of solutions of the hydrodynamic-type systems. **89a:34054**

Georgescu, Adelina *see* **Oprea, Iuliana**, **89j:65048**

Giberti, Claudio *see* **Franceschini, Valter; et al.**, **89f:76032**

Grasman, J. *see* **Doelman, A.**, (**89g:58004**)

Grmela, Miroslav Hamiltonian dynamics of incompressible elastic fluids. **89e:76015**

Guckenheimer, John *see* **Armbruster, D.; et al.**, **89h:58136**

Hall, Philip^2 (*with* Smith, F. T.) The nonlinear interaction of Tollmien-Schlichting waves and Taylor-Görtler vortices in curved channel flows. **89f:76038**

Holmes, Philip *see* **Armbruster, D.; et al.**, **89h:58136**

Iooss, G. *see* **Chossat, P.; et al.**, **89m:35176**

Keller, J. B. *see* **Newton, Paul K.**, **89f:35032**

Kitney, R. I. *see* **Treiber, J.**, **89i:76061**

Knobloch, Edgar (*with* Deane, A. E.; Toomre, J.) Oscillatory doubly diffusive convection: theory and experiment. (*see* **89b:58064**)

— *see also* **Crawford, John David**, **89j:58091** *and* **Dangelmayr, G.**, **89m:58152**

Kramer, Lorenz (*with* Zimmermann, Walter Josef; Bodenschatz, E.; Pesch, W.) Pattern selection in convective instabilities with axial anisotropy. (*see* **89f:76003**)

Linz, S. J. (*with* Lücke, M.) A Galerkin approximation for convection in binary mixtures with realistic concentration boundary conditions. (*see* **89f:76003**)

Lücke, M. *see* **Linz, S. J.**, (**89f:76003**)

Lundgren, T. S. (*with* Mansour, N. N.) Oscillations of drops in zero gravity with weak viscous effects. **89m:76031**

— (*with* Ashurst, W. T.) Area-varying waves on curved vortex tubes with application to vortex breakdown. **89m:76022**

Mansour, N. N. *see* **Lundgren, T. S.**, **89m:76031**

Marchioro, Carlo (*with* Pagani, Enrico) Nonlinear stability of a spatially symmetric solution of the relativistic Poisson-Vlasov equation. **89h:35308**

Maslowe, S. A. *see* **Collins, D. A.**, **89m:76038**

Meyer-Spasche, R. (*with* Wagner, Matthias) The basic $(n, 2n)$-fold of steady axisymmetric Taylor vortex flows. (*see* **89b:58064**)

Nayfeh, Ali Hasan Numerical-perturbation methods in mechanics. **89i:70037**

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Nicolini, Marco *see* **Franceschini, Valter; et al.**, **89f:76032**

Oprea, Iuliana (*with* Georgescu, Adelina) Numerical methods in bifurcation theory. II. Stationary solutions in the infinite-dimensional case. (Romanian. English summary) **89j:65048**

Pagani, Enrico *see* **Marchioro, Carlo**, **89h:35308**

Papageorgiou, D. T. (*with* Smith, F. T.) Nonlinear instability of the wake behind a flat plate placed parallel to a uniform stream. **89k:76038**

Pesch, W. *see* **Kramer, Lorenz; et al.**, (**89f:76003**)

Romanov, A. S. (*with* Stytsyna, A. A.) The initial stage in the development of dynamic perturbations in a nonlinearly heat-conducting gas. **89i:76076**

Silbergleit, Alexander Samuel *see* **Galaktionov, E. V.**, **89a:34054**

Smith, F. T. *see* **Hall, Philip^2**, **89f:76038** *and* **Papageorgiou, D. T.**, **89k:76038**

Stuart, J. T. Nonlinear Euler partial differential equations: singularities in their solution. (*see* **89f:76002**)

Stytsyna, A. A. *see* **Romanov, A. S.**, **89i:76076**

Tebaldi, Claudio *see* **Franceschini, Valter**, **89i:76037**

Titi, E. S. *see* **Constantin, Peter**, **89i:76033**

Toomre, J. *see* **Knobloch, Edgar; et al.**, (**89b:58064**)

Toplosky, N. *see* **Akylas, T. R.**, (**89f:76002**)

Treiber, J. (*with* Kitney, R. I.) Cooperative dynamics of a coupled-oscillator system and the forced free shear layer. **89i:76061**

Vladimirov, V. A. Conditions for the stability of flows of an ideal fluid with vorticity discontinuities. **89f:76039**

Wagner, Matthias *see* **Meyer-Spasche, R.**, (**89b:58064**)

Zimmermann, Walter Josef *see* **Kramer, Lorenz; et al.**, (**89f:76003**)

76E99 None of the above, but in this section

Andreev, V. K. On the stability of nonstationary capillary motion. **89d:76020**

Belov, S. Ya. (*with* Vladimirov, V. A.) On the analogues and generalizations of Squire's theorem. **89h:76020**

Elazab, S. S. *see* **Radwan, A. E.**, **89c:76068**

Hooper, A. A note on the energy stability equation for Couette flow of two superposed viscous fluids. (*see* **89c:76004**)

Howison, S. D. (*with* Lacey, A.; Ockendon, J. R.) Hele-Shaw free-boundary problems with suction. **89e:76049**

Hsieh, Din Yu Kelvin-Helmholtz stability and two-phase flow. (*see* **89f:76002**)

Jiménez, Javier Linear stability of a nonsymmetric, inviscid, Kármán street of small uniform vortices. **89c:76066**

Lacey, A. *see* **Howison, S. D.; et al.**, **89e:76049**

Lukovskiĭ, I. A. (*with* Timokha, A. N.) Nonlinear dynamics of the interface of a liquid and a gas when the gas contains a high-particle acoustic field. Stability of steady-state regimes. (Russian) **89m:76046**

MacKay, R. S. Instability of vortex streets. **89c:76067**

Mond, Michael The effects of size distribution on the stability of bubbly flow. **89a:76039**

Ockendon, J. R. *see* **Howison, S. D.; et al.**, **89e:76049**

Radwan, A. E. (*with* Elazab, S. S.) Capillary instability of a viscous hollow cylinder. **89c:76068**

Rodrigues, José-Francisco A steady-state Boussinesq-Stefan problem with continuous extraction. **89j:76051**

Sather, D. Primary and secondary steady flows of the Taylor problem. **89c:76069**

Timokha, A. N. *see* **Lukovskiĭ, I. A.**, **89m:76046**

Vladimirov, V. A. *see* **Belov, S. Ya.**, **89h:76020**

Items with secondary classifications in 76E99

Antanovskiĭ, L. K. Dynamics of the interphase boundary under the action of capillary forces. Quasistationary plane-parallel motion. **89i:76089**

Batchelor, G. K. A new theory of the instability of a uniform fluidized bed. **89m:76066**

Berger, Stanley A. Initial-value stability analysis of a liquid jet. **89h:76011**

Brochard, Françoise (*with* Redon, Claude; Rondelez, Francis) Démouillage: régime de gravité. (English summary) [Dewetting: the gravity controlled regime] **89j:76035**

Caflisch, Russel E. (*with* Liu, Tai-Ping) Stability of shock waves for the Broadwell equations. **89k:76078**

Chan, Derek Y. C. (*with* Hughes, Barry D.; Paterson, Lincoln; Sirakoff, Christina) Simulating flow in porous media. **89h:76036**

DeGregoria, Anthony J. *see* **Schwartz, Leonard W.**, **89c:76109**

Doering, Charles R. (*with* Gibbon, J. D.; Holm, Darryl D.; Nicolaenko, Basil) Low-dimensional behaviour in the complex Ginzburg-Landau equation. **89g:35095**

Drouot, R. (*with* Maugin, Gérard A.) Polyelectrolyte solutions: equilibrium conformations of the microstructure without and with external fields. **89c:76023**

Fedorov, A. V. Excitation of instability waves of the secondary flow in a boundary layer on a sliding wing. **89k:76072**

Feingold, Mario (*with* Kadanoff, Leo P.; Piro, Oreste) Passive scalars, three-dimensional volume-preserving maps, and chaos. **89h:58167**

Gibbon, J. D. *see* **Doering, Charles R.; et al.**, **89g:35095**

Giga, Yoshikazu (*with* Kambe, Tsutomu) Large time behavior of the vorticity of two-dimensional viscous flow and its application to vortex formation. **89k:35182**

Gruber, Ralf Finite elements in magnetohydrodynamics: ideal linear stability problem. **89b:65264**

Halanay, Aristide (*with* Popescu, Mihail) Une propriété arithmétique dans l'analyse du comportement d'un système hydraulique comprenant une chambre d'équilibre avec étranglement. (English summary) [An arithmetical property in the analysis of the behavior of a hydraulic system including a throttled surge tank] **89j:76036**

Hiscock, William A. (*with* Lindblom, Lee) Stability in dissipative relativistic fluid theories. **89i:83044**

Holm, Darryl D. *see* **Doering, Charles R.; et al.**, **89g:35095**

Hughes, Barry D. *see* **Chan, Derek Y. C.; et al.**, **89h:76036**

Kadanoff, Leo P. *see* **Feingold, Mario; et al.**, **89h:58167**

Kambe, Tsutomu *see* **Giga, Yoshikazu**, **89k:35182**

Le Tallec, Patrick Numerical solution of viscoplastic flow problems by augmented Lagrangians. **89k:73032**

Lewis, Donald Cain (*with* Marsden, Jerrold E.; Ratiu, T.) Stability and bifurcation of a rotating planar liquid drop. **89c:58089**

Lindblom, Lee *see* **Hiscock, William A.**, **89i:83044**

Liu, Tai-Ping *see* **Caflisch, Russel E.**, **89k:76078**

Marsden, Jerrold E. *see* **Lewis, Donald Cain; et al.**, **89c:58089**

Maugin, Gérard A. *see* **Drouot, R.**, **89c:76023**

Meiron, D. I. On the stability of gas bubbles rising in an inviscid fluid. **89k:76093**

Munro, David H. Analytic solutions for Rayleigh-Taylor growth rates in smooth density gradients. **89j:76085**

Munz, Claus-Dieter (*with* Schmidt, Lutz) Numerical simulations of compressible hydrodynamic instabilities with high resolution schemes. (*see* **89j:35007**)

Nicolaenko, Basil *see* **Doering, Charles R.; et al.**, **89g:35095**

Pacheco, F. (*with* Pucacco, G.; Ruffini, R.; Sebastiani, G.) Equilibrium figures of anisotropic heterogeneous S-type Riemann ellipsoids. **89k:85003**

Paterson, Lincoln *see* **Chan, Derek Y. C.; et al.**, **89h:76036**

Piro, Oreste *see* **Feingold, Mario; et al.**, **89h:58167**

Popescu, Mihail *see* **Halanay, Aristide**, **89j:76036**

Pucacco, G. *see* **Pacheco, F.; et al.**, **89k:85003**

Ratiu, T. *see* **Lewis, Donald Cain; et al.**, **89c:58089**

Reddy, B. D. Variational and numerical aspects of eigenvalue problems in the stability of fluids. (*see* **89c:65004**)

Redon, Claude *see* **Brochard, Françoise; et al.**, **89j:76035**

Rondelez, Francis *see* **Brochard, Françoise; et al.**, **89j:76035**

Ruffini, R. *see* **Pacheco, F.; et al.**, **89k:85003**

Schmidt, Lutz *see* **Munz, Claus-Dieter**, (**89j:35007**)

Schwartz, Leonard W. (*with* DeGregoria, Anthony J.) Two-phase flow in Hele-Shaw cells: numerical studies of sweep efficiency in a five-spot pattern. **89c:76109**

Sebastiani, G. *see* **Pacheco, F.; et al.**, **89k:85003**

Sirakoff, Christina *see* **Chan, Derek Y. C.; et al.**, **89h:76036**

Sobolevskiĭ, P. E. Stability of motion of a nonlinearly viscous fluid. (Russian) **89f:76015**

Virga, Epifanio G. When bubbles can be formed in a fluid, and when they cannot. (Italian. English summary) **89k:76095**

— Metastable equilibrium of fluids with surface tension. **89k:58075**

Vladimirov, V. A. Conditions for the stability of flows of an ideal fluid with vorticity discontinuities. **89f:76039**

Walgraef, Daniel Patterns and defects far from equilibrium. **89d:82165**

Wollkind, David J. (*with* Zhang, B.) A nonlinear stability analysis of a fixed-boundary model equation for alloy solidification. **89k:80021**
Zhang, B. *see* **Wollkind, David J., 89k:80021**

76Fxx Turbulence [see also 58F13, 58F27, 60Gxx, 60Jxx]

Corcos, G. M. The role of cartoons in turbulence. (*see* **89j:76005**)
Leonard, A. (*with* Reynolds, W. C.) Turbulence research by numerical simulation. (*see* **89j:76005**)
Lesieur, Marcel ★ Turbulence in fluids. **89b:76013**
Reynolds, W. C. *see* **Leonard, A., (89j:76005)**

Items with secondary classifications in 76Fxx

(Coles, Donald) *see* **Perspectives in fluid mechanics, 89j:76005**
(Liepmann, Hans Wolfgang) *see* **Perspectives in fluid mechanics, 89j:76005**

Items listed otherwise than by author

Birthday:
  Liepmann, Hans Wolfgang ★ Perspectives in fluid mechanics. **89j:76005**
Lecture Notes in Physics ★ Perspectives in fluid mechanics. **89j:76005**
Pasadena, CA ★ Perspectives in fluid mechanics. **89j:76005**
Perspectives in fluid mechanics ★ Perspectives in fluid mechanics. **89j:76005**
Symposium:
  Perspectives in Fluid Mechanics ★ Perspectives in fluid mechanics. **89j:76005**

76F05 Homogeneous isotropic turbulence

Antonov, N. V. Scaling function for the velocity correlator in the theory of isotropic developed turbulence. (Russian) **89e:76050**
Chacón Rebollo, Tomás Oscillations due to the transport of microstructures. **89j:76052**
Chen, Shi Yi *see* **Zhou, Pei Yuan, 89j:76053**
Gilbert, Andrew D. Spiral structures and spectra in two-dimensional turbulence. **89k:76060**
Kraichnan, Robert H. Reduced descriptions of hydrodynamic turbulence. **89i:76059**
Nelkin, Mark What do we know about self-similarity in fluid turbulence? **89k:76061**
Wilcox, David C. Multiscale model for turbulent flows. **89k:76063**
Zhou, Pei Yuan (*with* Chen, Shi Yi) On the theory of turbulence for incompressible fluids. **89j:76053**

Items with secondary classifications in 76F05

Dhanak, M. R. Turbulent boundary layer on a circular cylinder: the low-wavenumber surface pressure spectrum due to a low-Mach-number flow. **89m:76059**
Erlebacher, G. (*with* Hussaini, M. Y.; Zang, T. A.) Spectral multigrid methods for the solution of homogeneous turbulence problems. **89m:76007**
Hussaini, M. Y. *see* **Erlebacher, G.; et al., 89m:76007**
Jones, W. P. (*with* Musonge, P.) Closure of the Reynolds stress and scalar flux equations. **89i:76012**
Musonge, P. *see* **Jones, W. P., 89i:76012**
Zang, T. A. *see* **Erlebacher, G.; et al., 89m:76007**

76F10 Shear flows

Comte, Pierre *see* **Lesieur, Marcel; et al.,** (Not in MR)
Domaradzki, J. Andrzej (*with* Orszag, Steven A.) Numerical solutions of the direct interaction approximation equations for anisotropic turbulence. **89c:76070**
Gouldin, F. C. Interpretation of jet mixing using fractals. **89j:76054**
Helland, K. N. *see* **Rohr, J. J.; et al.,** (Not in MR)
Itsweire, E. C. *see* **Rohr, J. J.; et al.,** (Not in MR)
Kaul, Upender K. Do large structures control their own growth in a mixing layer? An assessment. **89m:76047**
Kitney, R. I. *see* **Treiber, J., 89i:76061**
Le Roy, Pascal *see* **Lesieur, Marcel; et al.,** (Not in MR)
Lesieur, Marcel (*with* Staquet, Chantal; Le Roy, Pascal; Comte, Pierre) The mixing layer and its coherence examined from the point of view of two-dimensional turbulence. (Not in MR)
Liu, J. T. C. Coherent structures in transitional and turbulent free shear flows. (*see* **89g:76002**)
Newell, A. C. (*with* Rand, D. A.; Russell, David) Turbulent dissipation rates and the random occurrence of coherent events. **89i:76060**
Orszag, Steven A. *see* **Domaradzki, J. Andrzej, 89c:76070**
Ostrovskiĭ, L. A. (*with* Troitskaya, Yu. I.) Model for turbulent transfer and turbulence dynamics in a stratified shear flow. **89j:76055**
Rand, D. A. *see* **Newell, A. C.; et al., 89i:76060**
Rohr, J. J. (*with* Itsweire, E. C.; Helland, K. N.; Van Atta, C. W.) Growth and decay of turbulence in a stably stratified shear flow. (Not in MR)
Russell, David *see* **Newell, A. C.; et al., 89i:76060**
Staquet, Chantal *see* **Lesieur, Marcel; et al.,** (Not in MR)
Stuart, J. T. Nonlinear Euler partial differential equations: singularities in their solution. (*see* **89f:76002**)
Treiber, J. (*with* Kitney, R. I.) Cooperative dynamics of a coupled-oscillator system and the forced free shear layer. **89i:76061**
Troitskaya, Yu. I. *see* **Ostrovskiĭ, L. A., 89j:76055**
Van Atta, C. W. *see* **Rohr, J. J.; et al.,** (Not in MR)
Wilcox, David C. Reassessment of the scale-determining equation for advanced turbulence models. **89k:76062**
Zharov, V. A. On the wave theory of a developed turbulent boundary layer. (Russian) **89f:76053**
Zhu, Wen Zhong Turbulent boundary layer along a flat plate at zero incidence. (Chinese summary) (Not in MR)

Items with secondary classifications in 76F10

Boudourides, M. A. Adiabatic annular shear flows with temperature-dependent viscosity. **89j:76046**
— (*with* Charalambakis, Nicolas Ch.) Asymptotic stability of a stratified multicomponent flow with temperature-dependent viscosities. (French summary) **89h:76016**
Busse, F. H. On the optimum theory of turbulence. **89e:76052**
Charalambakis, Nicolas Ch. *see* **Boudourides, M. A., 89h:76016**
Chen, Shi Yi *see* **Zhou, Pei Yuan, 89j:76053**
Churilov, S. M. (*with* Shukhman, I. G.) The nonlinear development of disturbances in a zonal shear flow. **89m:76041**
Collins, D. A. (*with* Maslowe, S. A.) Vortex pairing and resonant wave interactions in a stratified free shear layer. **89m:76038**
Craik, A. D. D. ★ Wave interactions and fluid flows. **89j:76001**
Ferré, J. A. (*with* Giralt, Francesc) Pattern-recognition analysis of the velocity field in plane turbulent wakes. (Not in MR)
— (*with* Giralt, Francesc) Some topological features of the entrainment process in a heated turbulent wake. (Not in MR)
Giralt, Francesc *see* **Ferré, J. A.,** (Not in MR)
Goldstein, M. E. (*with* Leib, S. J.) Nonlinear roll-up of externally excited free shear layers. **89m:76043**
Jones, W. P. (*with* Musonge, P.) Closure of the Reynolds stress and scalar flux equations. **89i:76012**
Koch, Werner Nonlinear limit-cycle solutions—a rational method for transition prediction in shear flows? **89j:76049**
Leib, S. J. *see* **Goldstein, M. E., 89m:76043**
Maslowe, S. A. *see* **Collins, D. A., 89m:76038**
Musonge, P. *see* **Jones, W. P., 89i:76012**
Pugh, J. D. (*with* Saffman, P. G.) Two-dimensional superharmonic stability of finite-amplitude waves in plane Poiseuille flow. **89m:76033**
Renardy, Yuriko Instabilities in steady flows of two fluids. **89i:76058**
Saffman, P. G. *see* **Pugh, J. D., 89m:76033**
Shukhman, I. G. *see* **Churilov, S. M., 89m:76041**
Smith, Ronald Second-order recombination in a parallel shear flow. **89m:80015**
Zhou, Pei Yuan (*with* Chen, Shi Yi) On the theory of turbulence for incompressible fluids. **89j:76053**

76F99 None of the above, but in this section

Adzhemyan, L. Ts. (*with* Vasil′ev, A. N.; Gnatich, M.) The renormalization group approach in turbulence theory: renormalization and critical dimensions of composite operators of the energy-momentum tensor. **89c:76071**
Alankuş, Taylan The statistical solutions for turbulent transport with molecular diffusion in terms of space-time characteristic functionals. **89i:76062**
Aranson, I. S. (*with* Rabinovich, M. I.) Renormalization group description of spatial turbulence development. (Russian. English summary) (*see* **89a:81002**)
Bhattacharjee, Jayanta K. Randomly stirred fluids, mode coupling theories and the turbulent Prandtl number. **89e:76051**
Bullister, Edward T. (*with* Orszag, Steven A.) Numerical simulation of turbulent spots in channel and boundary layer flows. **89c:76072**
Busse, F. H. On the optimum theory of turbulence. **89e:76052**
Chang, Hsueh-Chia *see* **Hwang, Shyh-Hong, 89a:76040**
Chaté, Hugues (*with* Manneville, Paul) Intermittence spatio-temporelle et automates cellulaires probabilistes. (English summary) [Spatiotemporal intermittency and probabilistic cellular automata] **89k:76064**
— (*with* Manneville, Paul) Spatio-temporal intermittency in coupled map lattices. **89k:76065**
Chorin, Alexandre Joel Scaling laws in the vortex lattice model of turbulence. **89m:76048**
Constantin, Peter (*with* Foiaş, Ciprian; Temam, Roger) On the dimension of the attractors in two-dimensional turbulence. **89j:76056**
Crisanti, A. (*with* Paladin, G.; Vulpiani, A.) Is multifractal structure relevant for the turbulent diffusion? **89b:76014**
Crutchfield, James P. (*with* Kaneko, Kunihiko) Are attractors relevant to turbulence? **89j:76057**
Dannevik, William P. (*with* Yakhot, Victor; Orszag, Steven A.) Analytical theories of turbulence and the ε expansion. **89h:76021**
Dubovikov, M. M. (*with* Tatarskiĭ, V. I.) The spectrum of developed turbulence in a dissipation interval. (Russian) (Not in MR)
Effinger, H. (*with* Grossmann, S.) Selfsimilarity of developed turbulence. (*see* **89b:58064**)
Foiaş, Ciprian (*with* Manley, O.; Temam, Roger) Modelling of the interaction of small and large eddies in two-dimensional turbulent flows. (French summary) **89h:76022**
— *see also* **Constantin, Peter; et al., 89j:76056**
Gaponov-Grekhov, A. V. (*with* Rabinovich, M. I.) Autostructures. The chaotic dynamics of ensembles. (Russian) **89f:76054**
Gnatich, M. *see* **Adzhemyan, L. Ts.; et al., 89c:76071**
Goldburg, W. I. *see* **Tong, Panger, 89k:76067**
Gräff, Pitter Some asymptotic results in turbulent diffusion. **89j:76058**
Grossmann, S. *see* **Effinger, H., (89b:58064)**
Hong, S. K. (*with* Ünal, Aynur) Characterization of a strange attractor in a fully-developed turbulent channel flow. **89e:76053**
Hwang, Shyh-Hong (*with* Chang, Hsueh-Chia) Turbulent and inertial roll waves in inclined film flow. **89a:76040**
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— On the free evolution of spectra of two-dimensional turbulence in a single-layer ocean with a free surface on the β-plane. (Russian) **89f:76056**
Joshi, N. E. (*with* Meshram, M. C.) The space-time functional formalism for turbulent multicomponent mixture with second order reactions. I, II. (Not in MR)
Kaneko, Kunihiko *see* **Crutchfield, James P., 89j:76057**
Kurz, Thomas *see* **Mayer-Kress, Gottfried, 89e:76054**
Libchaber, Albert Dynamical system theory and simple fluid flow. (*see* **89j:76005**)

Macháček, Martin The role of thermal noise in stationary hydrodynamical turbulence. **89b:76015**

Manley, O. *see* **Foiaş, Ciprian; et al., 89h:76022**

Manneville, Paul *see* **Chaté, Hugues, 89k:76064** *and* **89k:76065**

Maslov, V. P. Deterministic theory of turbulence in hydrodynamics (coherent structures). **89g:76028**

Mayer-Kress, Gottfried (*with* Kurz, Thomas) Dimension densities for turbulent systems with spatially decaying correlation functions. **89e:76054**

Meshram, M. C. *see* **Joshi, N. E.**, (Not in MR)

Migdal, A. A. Random surfaces and turbulence. **89i:76063**

Moiseev, S. S. (*with* Rutkevich, P. B.; Tur, A. V.; Yanovskiĭ, V. V.) Wave-turbulent and vortex dynamos. **89g:76029**

Ohkitani, Koji *see* **Yamada, Michio, 89c:76075**

Orszag, Steven A. (*with* Yakhot, Victor) Renormalization group analysis of turbulence. **89e:76055**

— *see also* **Bullister, Edward T., 89c:76072; Dannevik, William P.; et al., 89h:76021** *and* **Yakhot, Victor; et al.**, (Not in MR)

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Panda, Raj *see* **Yakhot, Victor; et al.**, (Not in MR)

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Qian, J. Cascade model of turbulence. **89i:76064**

Rabinovich, M. I. *see* **Gaponov-Grekhov, A. V., 89f:76054** *and* **Aranson, I. S., (89a:81002)**

Rozhdestvenskiĭ, B. L. *see* **Priĭmak, V. G.; et al., (89j:00008)**

Rutkevich, P. B. *see* **Moiseev, S. S.; et al., 89g:76029**

Saffman, P. G. Perspectives in vortex dynamics. (*see* **89j:76005**)

Shih, Tom I-Ping Mathematical models for the numerical study of turbulent flows. (Chinese summary) **89k:76066**

Simakin, I. N. *see* **Priĭmak, V. G.; et al., (89j:00008)**

Sirovich, L. Turbulence and the dynamics of coherent structures. I. Coherent structures. **89a:76041a**

— Turbulence and the dynamics of coherent structures. II. Symmetries and transformations. **89a:76041b**

— Turbulence and the dynamics of coherent structures. III. Dynamics and scaling. **89a:76041c**

Takhar, H. S. *see* **Thomas, T. G., 89c:76074**

Tatarskiĭ, V. I. *see* **Dubovikov, M. M.**, (Not in MR)

Temam, Roger *see* **Foiaş, Ciprian; et al., 89h:76022** *and* **Constantin, Peter; et al., 89j:76056**

Teodorovich, È. V. Turbulent transfer phenomena, and the renormalization group method. (Russian) (Not in MR)

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Tong, Panger (*with* Goldburg, W. I.) Relative velocity fluctuations in turbulent flows at moderate Reynolds number. II. Model calculation. **89k:76067**

Tur, A. V. *see* **Moiseev, S. S.; et al., 89g:76029**

Ünal, Aynur *see* **Hong, S. K., 89e:76053**

Vasil′ev, A. N. *see* **Adzhemyan, L. Ts.; et al., 89c:76071**

Verhás, J. A thermodynamic theory for turbulence. (*see* **89g:58004**)

Vulpiani, A. *see* **Crisanti, A.; et al., 89b:76014**

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Added, Stéphane *see* **Added-Pourcin, Hélène, 89h:35273**

Added-Pourcin, Hélène (*with* Added, Stéphane) Equations of Langmuir turbulence and nonlinear Schrödinger equation: smoothness and approximation. **89h:35273**

Adomian, George A. A new approach to Burgers' equation. **89h:35274**

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— *see also* **Babenko, K. I., 89f:58085**

Andrews, P. L. (*with* Waltz, R. E.) Direct solution for the power spectrum of the Lorenz attractor. **89i:58074**

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Arneodo, A. *see* **Argoul, F.; et al., 89g:58125**

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Blunden, A. R. *see* **Blunden, W. R.; et al., 89d:76001**

Blunden, W. R. (*with* Gostelow, J. P.; Blunden, A. R.) On the application of queueing theory concepts to boundary layer transition. **89d:76001**

Chernikov, Aleksandr Antonovich *see* **Beloshapkin, V. V.; et al., 89i:76035** *and* **Zaslavskiĭ, G. M.; et al., 89k:76030**

Chorin, Alexandre Joel Vortex methods and turbulence theory. **89d:76003**

Chossat, P. (*with* Golubitsky, M.) Symmetry-increasing bifurcation of chaotic attractors. **89j:58089**

Christov, Christo I. Poisson-Wiener expansion in nonlinear stochastic systems. (Russian summary) (Not in MR)

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Domokos, G. (*with* Kõvesi-Domokos, S.; Zoltani, Csaba K.) Boltzmann equation approach to two phase flow turbulence. **89m:76067**

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Feingold, Mario *see* **Piro, Oreste, 89i:58096**

Förste, J. Zur statistischen Theorie der magnetohydrodynamischen Turbulenz. [The statistical theory of magnetohydrodynamic turbulence] **89f:76082**

Franceschini, Valter (*with* Tebaldi, Claudio) Truncations to 12, 14 and 18 modes of the Navier-Stokes equations on a two-dimensional torus. (Italian summary) **89i:76037**

(Gaponov-Grekhov, A. V.) *see* **Schuster, Heinz Georg, 89h:58130**

Gledzer, E. B. (*with* Glukhovskiĭ, A. B.) Criteria for the stability of stationary solutions of discrete chains of cascade type. (Russian) **89b:76011**

Glukhovskiĭ, A. B. *see* **Gledzer, E. B., 89b:76011**

Goldhirsch, I. *see* **Bayly, B. J.; et al., 89d:58078**

Golubitsky, M. *see* **Chossat, P., 89j:58089**

Gostelow, J. P. *see* **Blunden, W. R.; et al., 89d:76001**

(Gresho, Philip M.) *see* **Numerical methods in laminar and turbulent flow, 89f:78001**

Howe, M. S. Production of sound by turbulent flow over an embedded strut. **89k:76083**

Huerre, P. Instabilités hydrodynamiques non linéaires et chaos déterministe. [Nonlinear hydrodynamical instabilities and deterministic chaos] **89f:76050**

(Izraĭlev, F. M.) *see* **Schuster, Heinz Georg, 89h:58130**

Klimontovich, Yu. L. The evolution of entropy in self-organization processes. The *H*-theorem and the *S*-theorem. (Russian) **89b:82045**

Kondo, Shunsuke *see* **Koshizuka, Seiichi; et al., 89c:76015**

Koshizuka, Seiichi (*with* Oka, Yoshiaki; Kondo, Shunsuke; Togo, Yasumasa) Interpolating matrix method: a finite difference method for arbitrary arrangement of mesh points. **89c:76015**

Kostelich, Eric J. (*with* Yorke, James A.) Noise reduction in dynamical systems. **89i:58091**

Kotulski, Zbigniew On the Markovian model of turbulent diffusion. **89b:76023**

Kõvesi-Domokos, S. *see* **Domokos, G.; et al., 89m:76067**

Kraichnan, Robert H. Reduced descriptions of hydrodynamic turbulence. **89i:76059**

Maĭstrenko, Yu. L. *see* **Sharkovskiĭ, A. N.; et al., 89k:58164**

Majda, A. *see* **Constantin, Peter, 89g:35089**

(Malkin, M. I.) *see* **Schuster, Heinz Georg, 89h:58130**

McWilliams, J. C. *see* **Melander, M. V.; et al., 89m:76023**

Melander, M. V. (*with* Zabusky, N. J.; McWilliams, J. C.) Symmetric vortex merger in two dimensions: causes and conditions. **89m:76023**

Migdal, A. A. The Fokker-Planck vortex equation. (Russian) **89d:76015**

Monin, A. S. *see* **Zakharov, V. E.; et al., 89i:76034**

Newell, A. C. (*with* Rand, D. A.) Turbulent transport and the random occurrence of coherent events. **89h:58103**

— The dynamics of patterns: a survey. **89k:76050**

Oka, Yoshiaki *see* **Koshizuka, Seiichi; et al., 89c:76015**

Orszag, Steven A. *see* **Bayly, B. J.; et al., 89d:58078**

Piro, Oreste (*with* Feingold, Mario) Diffusion in three-dimensional Liouvillian maps. **89i:58096**

Piterbarg, L. I. *see* **Zakharov, V. E.; et al., 89i:76034**

Pocheau, A. Transition à la turbulence des écoulements convectifs en géométrie cylindrique. (English summary) [Transition to turbulence of convective flows in a cylindrical container] **89k:76051**

(Rabinovich, M. I.) *see* **Schuster, Heinz Georg, 89h:58130**

Rand, D. A. *see* **Newell, A. C., 89h:58103**

Reed, Helen L. (*with* Saric, William S.) Stability of three-dimensional boundary layers. (*see* **89g:76002**)

(Reĭman, A. M.) *see* **Schuster, Heinz Georg, 89h:58130**

Richetti, P. *see* **Argoul, F.; et al., 89g:58125**

Romanenko, E. Yu. *see* **Sharkovskiĭ, A. N.; et al., 89k:58164**

Sagdeev, R. Z. *see* **Beloshapkin, V. V.; et al., 89i:76035** *and* **Zaslavskiĭ, G. M.; et al., 89k:76030**

Saric, William S. *see* **Reed, Helen L., (89g:76002)**

Schuster, Heinz Georg ★ Детерминированный хаос. (Russian) [Deterministic chaos] **89h:58130**

— ★ Deterministic chaos. **89h:58131**

Sharkovskiĭ, A. N. (*with* Maĭstrenko, Yu. L.; Romanenko, E. Yu.) Attractors of difference equations and turbulence. **89k:58164**

Shil′nikov, L. P. Bifurcation theory and turbulence. I. (Russian) **89k:58197**

Speziale, Charles G. Second-order closure models for rotating turbulent flows. **89a:76051**

Sudan, R. N. Low frequency plasma turbulence. (Russian summary) (*see* **89a:81002**)

Tang, Tao (*with* Yuan, Wei) The further study of a certain nonlinear integro-differential equation. **89h:45015**

(Taylor, Cedric) *see* **Numerical methods in laminar and turbulent flow, 89f:78001**

Tebaldi, Claudio *see* **Franceschini, Valter, 89i:76037**

Togo, Yasumasa *see* **Koshizuka, Seiichi; et al., 89c:76015**

Vasil′ev, A. N. Quantum field renormalization group in the theory of turbulence and magnetohydrodynamics. (Russian. English summary) (*see* **89a:81002**)

Waltz, R. E. *see* **Andrews, P. L., 89i:58074**

Yorke, James A. *see* **Kostelich, Eric J., 89i:58091**

Yuan, Wei *see* **Tang, Tao, 89h:45015**

Zabusky, N. J. *see* **Melander, M. V.; et al., 89m:76023**

Zakharov, V. E. (*with* Monin, A. S.; Piterbarg, L. I.) Hamiltonian formalism for the Rossby waves and drift waves in plasma. **89i:76034**

— *see also* **Balk, A. M., 89i:76100**

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— *see also* **Beloshapkin, V. V.; et al., 89i:76035**

Zoltani, Csaba K. *see* **Domokos, G.; et al., 89m:76067**

Items listed otherwise than by author

Conference:

Numerical Methods in Laminar and Turbulent Flow ★ Numerical methods in laminar and turbulent flow. **89f:78001**

Montreal, PQ ★ Numerical methods in laminar and turbulent flow. **89f:78001**

Numerical methods in laminar and turbulent flow ★ Numerical methods in laminar and turbulent flow. **89f:78001**

Special issue:

Numerical methods in laminar and turbulent flow ★ Numerical methods in laminar and turbulent flow. **89f:78001**

76Gxx General aerodynamics and subsonic flows

76G05 Hodograph methods

Iacob, Caius On a subsonic jet problem. I. **89g:76030**

— On a subsonic jet problem. II. **89g:76031**

Kovács, A. Über die Varianten der approximativen hodographischen Methode mit Anwendung in der Netztheorie der Profile. II. (Romanian summary) [On the variants of the approximative hodographic method with application in the net theory of profiles. II] (Not in MR)

— Über die Varianten der approximativen hodographischen Methode mit Anwendung in der Netztheorie der Profile. I. (Romanian summary) [On the variants of the approximative hodographic method with application in the net theory of profiles. I] (Not in MR)

Items with secondary classifications in 76G05

Chiocchia, G. (*with* Gabutti, B.) A new transformation for computing hypergeometric series and the exact evaluation of the transonic adiabatic flow over a smooth bump. **89k:76003**

Gabutti, B. *see* **Chiocchia, G., 89k:76003**

Gaponenko, Yu. L. (*with* Nikolaev, I. V.) On the accuracy of the reconstruction of a piecewise-continuous velocity function of a medium from an approximately given vertical hodograph. **89a:65194**

Michaux, B. (*with* Rakotoson, J.-M.; Shen, Jie) On the existence and regularity of solutions of a quasilinear mixed equation of Leray-Lions type. **89m:35155**

Nikolaev, I. V. *see* **Gaponenko, Yu. L., 89a:65194**

Rakotoson, J.-M. *see* **Michaux, B.; et al., 89m:35155**

Shen, Jie *see* **Michaux, B.; et al., 89m:35155**

76G15 Iterative methods

Items with secondary classifications in 76G15

Bose, T. K. ★ Computational fluid dynamics. **89j:76008**

Fedorchenko, A. T. Equations for the acoustics of a nonstationary subsonic flow. **89k:76081**

Fu, De Xun (*with* Ma, Yan Wen) Jacobian matrix splitting methods and numerical computation of aerodynamics equations. (Chinese. English summary) **89i:65134**

Koren, Barry (*with* Spekreijse, Stefan) Solution of the steady Euler equations by a multigrid method. **89j:76019**

Ma, Yan Wen *see* **Fu, De Xun, 89i:65134**

(Natarajan, B.) *see* **Bose, T. K., 89j:76008**

Spekreijse, Stefan *see* **Koren, Barry, 89j:76019**

76G20 Free-streamline theory

Cordova, Jeffrey Q. (*with* Pearson, Carl E.) On a modified streamline curvature method for the Euler equations. **89h:76023**

Pearson, Carl E. *see* **Cordova, Jeffrey Q., 89h:76023**

Items with secondary classifications in 76G20

Iacob, Caius On a subsonic jet problem. II. **89g:76031**

76G99 None of the above, but in this section

Aptekarev, A. I. (*with* Volevich, L. R.) Calculation of subsonic potential flow around smooth and pointed profiles by means of higher-order finite elements. (Russian) **89i:76065**

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Osipov, A. A. (*with* Reent, K. S.) The method of integral equations for calculating the nonstationary aerodynamic characteristics of a rotating circular blade row. (Russian) **89j:76060**

Reent, K. S. *see* **Osipov, A. A., 89j:76060**

Sitnikov, V. G. *see* **Bogodistov, S. S., 89h:76024**

Volevich, L. R. *see* **Aptekarev, A. I., 89i:76065** *and* **89m:76049**

Items with secondary classifications in 76G99

Aparinov, V. A. (*with* Belotserkovskiĭ, S. M.; Lifanov, I. K.; Mikhaĭlov, A. A.) Calculation of nonstationary aerodynamic characteristics of bodies in the case of separated flow. (Russian) **89k:76023**

Aptekarev, A. I. (*with* Volevich, L. R.) The finite element method in a problem of subsonic potential flows of compressible gas around bodies. (Russian) **89k:76002**

Becker, Klaus Multigrid acceleration of a 2D full potential flow solver. **89j:76006**

Belotserkovskiĭ, S. M. *see* **Aparinov, V. A.; et al., 89k:76023**

Carey, G. F. *see* **Jiang, B.-N., 89b:65267**

Elizarov, A. M. Some extremal problems in wing theory. **89m:76010**

Ershov, B. A. The effect of the vortex wake on the perturbed motion of an elastic profile. (Russian. English summary) **89j:73059**

Guermond, Jean Luc A systematic formula for the asymptotic expansion of singular integrals. (French summary) **89h:41060**

Jiang, B.-N. (*with* Carey, G. F.) Least-squares finite element approximation of nonlinear problems. **89b:65267**

Larcombe, P. J. (*with* Poots, G.; Skelton, P. L. I.; Shillor, M.) Mathematical models for ice accretion on conductors using free streamline theory. I. Single conductor. **89m:76020**

Lifanov, I. K. *see* **Aparinov, V. A.; et al., 89k:76023**

Mikhaĭlov, A. A. *see* **Aparinov, V. A.; et al., 89k:76023**

Osipov, A. A. (*with* Shirkovskiĭ, I. A.) Application of the finite element method for calculating acoustic fields in nonuniform gas flows. (Russian) **89f:76011**

Poots, G. *see* **Larcombe, P. J.; et al., 89m:76020**

Shillor, M. *see* **Larcombe, P. J.; et al., 89m:76020**

Shirkovskiĭ, I. A. *see* **Osipov, A. A., 89f:76011**

Skelton, P. L. I. *see* **Larcombe, P. J.; et al., 89m:76020**

Volevich, L. R. *see* **Aptekarev, A. I., 89k:76002**

76H05 Transonic flows, limit lines

Brezhnev, A. L. (*with* Chernov, I. A.) On transonic expansions. (Not in MR)

Chernov, I. A. *see* **Brezhnev, A. L.,** (Not in MR)

Cole, Julian D. Early transonic ideas in the light of later developments. (*see* **89j:76005**)

Feistauer, Miloslav (*with* Nečas, Jindřich) Remarks on the solvability of transonic flow problems. **89j:76061**

Fishelov, Dalia Spectral methods for the small disturbance equation of transonic flows. **89h:76025**

Jameson, Antony Computational transonics. **89k:76068**

— *see also* **Venkatakrishnan, V., 89i:76066**

Lifshits, Yu. B. (*with* Shagaev, A. A.) A projection-grid scheme for calculating the transonic flow around a profile. (Russian) **89j:76062**

Morawetz, Cathleen Synge Transonic flow and compensated compactness. **89c:76076**

Nečas, Jindřich *see* **Feistauer, Miloslav, 89j:76061**

Nocilla, Silvio Applications and developments of the Tricomi equation in the transonic aerodynamics. **89b:76016**

Shagaev, A. A. *see* **Lifshits, Yu. B., 89j:76062**

Venkatakrishnan, V. (*with* Jameson, Antony) Computation of unsteady transonic flows by the solution of Euler equations. **89i:76066**

Items with secondary classifications in 76H05

Becker, Klaus Multigrid acceleration of a 2D full potential flow solver. **89j:76006**

Byrkin, A. P. (*with* Tolstykh, A. I.) Third- and fourth-order compact schemes in problems of internal flows of viscous and nonviscous gases. (Russian) **89i:76004**

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(Coles, Donald) *see* **Perspectives in fluid mechanics, 89j:76005**

Dadone, Andrea (*with* Moretti, Gino) Fast Euler solver for transonic airfoils. I. Theory. **89f:76005a**

— (*with* Moretti, Gino) Fast Euler solver for transonic airfoils. II. Applications. **89f:76005b**

Dervieux, Alain *see* **Lallemand, Marie-Hélène, 89i:76013**

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Fishelov, Dalia The spectrum and the stability of the Chebyshev collocation operator for transonic flow. **89d:65083**

Gabutti, B. *see* **Chiocchia, G., 89k:76003**

Gittel, H.-P. Studies on transonic flow problems by nonlinear variational inequalities. (German and Russian summaries) **89a:35232**

Huněk, M. (*with* Kozel, K.; Vavřincová, M.) Numerical solution of transonic potential flow in 2D compressor cascades using multi-grid techniques. (*see* **89m:65007**)

Koren, Barry (*with* Spekreijse, Stefan) Solution of the steady Euler equations by a multigrid method. **89j:76019**

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— *see also* **Huněk, M.; et al.,** (**89m:65007**)

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(Liepmann, Hans Wolfgang) *see* **Perspectives in fluid mechanics, 89j:76005**

Liu, Chao Qun (*with* McCormick, Stephen F.) Multigrid, elliptic grid generation and the fast adaptive composite grid method for solving transonic potential flow equations. **89f:76010**

Lomax, Harvard *see* **Pan, Dartzi, 89c:76018**

Mandel, Jan (*with* Nečas, Jindřich) Convergence of finite elements for transonic potential flows. **89a:65170**

McCormick, Stephen F. *see* **Liu, Chao Qun, 89f:76010**

Moretti, Gino *see* **Dadone, Andrea, 89f:76005a** *and* **89f:76005b**

Munz, Claus-Dieter (*with* Schmidt, Lutz) Numerical simulations of compressible hydrodynamic instabilities with high resolution schemes. (*see* **89j:35007**)

Nečas, Jindřich *see* **Mandel, Jan, 89a:65170** *and* **Feistauer, Miloslav, 89f:35022**

Nguyen Van Nhac *see* **Kozel, K.; et al., (89j:35007)**

Pan, Dartzi (*with* Lomax, Harvard) A new approximate *LU* factorization scheme for the Reynolds-averaged Navier-Stokes equations. **89c:76018**

Schmidt, Lutz *see* **Munz, Claus-Dieter, (89j:35007)**

Sidès, J. *see* **Lerat, A., (89j:76004)**

Spekreijse, Stefan ★ Multigrid solution of the steady Euler equations. **89i:65109**

— *see also* **Koren, Barry, 89j:76019**

Tolstykh, A. I. *see* **Byrkin, A. P., 89i:76004**

Vavřincová, M. *see* **Kozel, K.; et al., (89j:35007)** *and* **Huněk, M.; et al., (89m:65007)**

Items listed otherwise than by author

Birthday:

Liepmann, Hans Wolfgang ★ Perspectives in fluid mechanics. **89j:76005**

Lecture Notes in Physics ★ Perspectives in fluid mechanics. **89j:76005**

Pasadena, CA ★ Perspectives in fluid mechanics. **89j:76005**

Perspectives in fluid mechanics ★ Perspectives in fluid mechanics. **89j:76005**

Symposium:

Perspectives in Fluid Mechanics ★ Perspectives in fluid mechanics. **89j:76005**

76Jxx Supersonic flows

76J05 Hodograph methods

Items with secondary classifications in 76J05

Scarpini, F. Degenerate and pseudoparabolic variational inequalities: approximate solutions. **89b:49014**

76J10 Method of characteristics

Items with secondary classifications in 76J10

Andreev, A. A. (*with* Kholodov, A. S.) A supersonic three-dimensional flow past blunt bodies that takes interference into account. (Russian) (Not in MR)

Bautin, S. P. Reduction of some problems in gas dynamics to the characteristic Cauchy problem of standard type. (Russian) **89k:76076**

(Belotserkovskii, O. M.) *see* **Magomedov, K. M., 89m:65001**

Busch-Vishniac, Ilene J. *see* **Paynter, Henry M., 89i:35088**

Clarke, Joseph H. (*with* Delale, Can F.) Expansion flows on walls with nonequilibrium condensation. **89e:76056**

Delale, Can F. *see* **Clarke, Joseph H., 89e:76056**

Kholodov, A. S. *see* **Magomedov, K. M., 89m:65001** *and* **Andreev, A. A.**, (Not in MR)

Magomedov, K. M. (*with* Kholodov, A. S.) ★ Сеточно-характеристические численные методы. (Russian) [Difference-characteristic numerical methods] **89m:65001**

Paynter, Henry M. (*with* Busch-Vishniac, Ilene J.) Remarks on Riemann's method of characteristics. **89i:35088**

76J99 None of the above, but in this section

Abalakin, I. V. (*with* Dorodnitsyn, L. V.; Elizarova, T. G.) Direct numerical modeling of the Blasius problem. **89f:76057**

Borodich, F. M. Problems of the interaction of blunt bodies with an acoustic medium. (Russian) **89m:76050**

Clarke, Joseph H. (*with* Delale, Can F.) Expansion flows on walls with nonequilibrium condensation. **89e:76056**

Delale, Can F. *see* **Clarke, Joseph H., 89e:76056**

Dorodnitsyn, L. V. *see* **Abalakin, I. V.; et al., 89f:76057**

Elizarova, T. G. *see* **Abalakin, I. V.; et al., 89f:76057**

Nefedov, V. V. Application of the theory of a "thin layer" to the solution of problems of flow around plates. (Russian) **89h:76026**

Neĭland, V. Ya. Asymptotic theory of the interaction and separation of a boundary layer in a supersonic gas flow. (Russian) **89e:76057**

Vigdorovich, I. I. The strong injection of gas into a supersonic flow with turbulent mixing. **89j:76063**

Zhuk, V. I. On the flow around a permeable section of a wall in a region of free interaction. (Russian) **89i:76067**

Items with secondary classifications in 76J99

Artola, Miguel *see* **Majda, A., 89f:76051**

Borodich, F. M. Spatial self-similar problems of the penetration of blunted bodies into an ideal compressible fluid (the supersonic case). **89j:76067**

Byrkin, A. P. (*with* Tolstykh, A. I.) Third- and fourth-order compact schemes in problems of internal flows of viscous and nonviscous gases. (Russian) **89i:76004**

Chen, Gui Qiang Overtaking of shocks of the same kind in the isentropic steady supersonic plane flow. **89e:76058**

Cordova, Jeffrey Q. (*with* Pearson, Carl E.) On a modified streamline curvature method for the Euler equations. **89h:76023**

Golovachëv, Yu. P. (*with* Leont′eva, N. V.) Numerical modeling of a supersonic flow around a sphere in a gas with changing density. (Russian) (Not in MR)

Leont′eva, N. V. *see* **Golovachëv, Yu. P.**, (Not in MR)

Lipatov, I. I. (*with* Neĭland, V. Ya.) On the theory of the nonsteady separation and interaction of a boundary layer with a supersonic gas flow. (Russian) **89i:76074**

Lomax, Harvard *see* **Pan, Dartzi, 89c:76018**

Majda, A. (*with* Artola, Miguel) Nonlinear development of acoustical instabilities in supersonic jets. **89f:76051**

Neĭland, V. Ya. *see* **Lipatov, I. I., 89i:76074**

Osipov, A. A. (*with* Reent, K. S.) The method of integral equations for calculating the nonstationary aerodynamic characteristics of a rotating circular blade row. (Russian) **89j:76060**

Pan, Dartzi (*with* Lomax, Harvard) A new approximate *LU* factorization scheme for the Reynolds-averaged Navier-Stokes equations. **89c:76018**

Pearson, Carl E. *see* **Cordova, Jeffrey Q., 89h:76023**

Reent, K. S. *see* **Osipov, A. A., 89j:76060**

Tirskiĭ, G. A. Hypersonic flow of a viscous heat-conducting chemically reacting gas around bodies for a broad range of Reynolds numbers. (Russian) **89f:76014**

Tolstykh, A. I. *see* **Byrkin, A. P., 89i:76004**

76K05 Hypersonic flows

Neĭland, V. Ya. Features of the interaction and separation of a transcritical boundary layer. **89i:76068**

Items with secondary classifications in 76K05

Pfitzner, M. Runge-Kutta split-matrix method for the simulation of real gas hypersonic flows. (*see* **89j:35007**)

Shinn, Judy L. *see* **Yee, H. C., 89k:76010**

Tirskiĭ, G. A. Hypersonic flow of a viscous heat-conducting chemically reacting gas around bodies for a broad range of Reynolds numbers. (Russian) **89f:76014**

Yee, H. C. (*with* Shinn, Judy L.) Semi-implicit and fully implicit shock-capturing methods for nonequilibrium flows. **89k:76010**

76L05 Shock waves and blast waves [see also 73D05]

Ambrosiano, J. *see* **McDonald, B. E., 89g:76033**

Anile, A. M. (*with* Russo, Giovanni) Generalized wavefront expansion. II. The propagation of step shocks. **89a:76042**

Barkhudarov, È. M. (*with* Kossyĭ, I. A.; Mdivnishvili, M. O.; Sokolov, I. V.; Taktakishvili, M. I.) Non-one-dimensional convergent shock waves. (Not in MR)

Bogatko, V. I. (*with* Kolton, G. A.) On a problem of nonlinear diffraction of strong shock waves. (Russian. English summary) **89k:76069**

Chen, Gui Qiang Overtaking of shocks of the same kind in the isentropic steady supersonic plane flow. **89e:76058**

Emanuel, G. (*with* Liu, Min-Shan) Shock wave derivatives. **89i:76069**

Fickett, Wildon A mathematical problem from detonation theory. **89k:76070**

Glaister, P. A shock-reflection problem in compressible-gas dynamics with a similarity solution. **89j:76064**

Glimm, James (*with* Grove, John; Lindquist, W. Brent; McBryan, Oliver A.; Tryggvason, Grétar) The bifurcation of tracked scalar waves. **89g:76032**

Grove, John *see* **Glimm, James; et al., 89g:76032**

Hornung, K. *see* **Schick, P., (89j:35007)**

Kolton, G. A. *see* **Bogatko, V. I., 89k:76069**

Kossyĭ, I. A. *see* **Barkhudarov, È. M.; et al.**, (Not in MR)

Kulikov, S. V. (*with* Solov′eva, M. E.) Efficiency of statistical modeling of a shock wave in a gas mixture. (Russian) **89j:76065**

Lindquist, W. Brent *see* **Glimm, James; et al., 89g:76032**

Liu, Min-Shan *see* **Emanuel, G., 89i:76069**

Majorana, Armando Analytical solutions of the Rankine-Hugoniot relations for a relativistic simple gas. (Italian and Russian summaries) **89e:76059**

McBryan, Oliver A. *see* **Glimm, James; et al., 89g:76032**

McDonald, B. E. (*with* Ambrosiano, J.) Similarity solution for low Mach number spherical shocks. **89g:76033**

Mdivnishvili, M. O. *see* **Barkhudarov, È. M.; et al.**, (Not in MR)

Nath, Onkar Self-similar flow behind a spherical shock with varying strength in an inhomogeneous medium. **89e:76060**

— Similarity solution of the propagation of spherical shock waves in a magnetogasdynamic self-gravitating system. **89e:76061**

Prasad, Phoolan (*with* Srinivasan, Ramalingam) On methods of calculating successive positions of a shock front. **89i:76070**

Rai, Arisudan (*with* Vishwakarma, J. P.) Nonuniform propagation of weak waves through thermally-conducting and dissociating gases. **89i:76071**

Ravindran, R. *see* **Roy, Ranjan, 89i:76072**

Roy, Ranjan (*with* Ravindran, R.) A note on the equivalence of shock manifold equations. **89i:76072**

Russo, Giovanni *see* **Anile, A. M., 89a:76042**

Schick, P. (*with* Hornung, K.) Nonstationary shock wave generation in droplet vapour mixtures. (*see* **89j:35007**)

Schwendeman, D. W. A numerical scheme for shock propagation in three dimensions. **89c:76077**

Shearer, Michael Dynamic phase transitions in a van der Waals gas. **89k:76071**

Sokolov, I. V. *see* **Barkhudarov, È. M.; et al.**, (Not in MR)

Solov′eva, M. E. *see* **Kulikov, S. V., 89j:76065**

Srinivasan, Ramalingam *see* **Prasad, Phoolan, 89i:76070**

Taktakishvili, M. I. *see* **Barkhudarov, È. M.; et al.**, (Not in MR)

Tryggvason, Grétar *see* **Glimm, James; et al., 89g:76032**

Vishwakarma, J. P. *see* **Rai, Arisudan, 89i:76071**

Items with secondary classifications in 76L05

Ames, William F. (*with* Donato, A.) On the evolution of weak discontinuities in a state characterized by invariant solutions. **89k:35141**

Bautin, S. P. Reduction of some problems in gas dynamics to the characteristic Cauchy problem of standard type. (Russian) **89k:76076**

— Representation of the solutions of the Navier-Stokes system near the contact characteristic. **89k:76073**

Benjamin, T. B. (*with* Bowman, S. B.) Discontinuous solutions of one-dimensional Hamiltonian systems. **89h:35197**

Boillat, Guy (*with* Strumía, Alberto) Limitation des vitesses d'onde et de choc quand la densité relativiste d'entropie (ou d'énergie) est convexe. (English summary) [Boundedness of wave and shock velocities when the relativistic density of entropy (or energy) is convex] **89h:35205**
— Involutions des systèmes conservatifs. (English summary) [Involutions of conservative systems] **89m:35135**
Borodich, F. M. Problems of the interaction of blunt bodies with an acoustic medium. (Russian) **89m:76050**
Borovikov, V. A. (*with* Kel'bert, M. Ya.) Adaptation of initial conditions for internal waves in a weakly compressible fluid. **89k:76029**
Bowman, S. B. *see* **Benjamin, T. B., 89h:35197**
Brio, M. Admissibility conditions for weak solutions of nonstrictly hyperbolic systems. (*see* **89j:35007**)
Caflisch, Russel E. (*with* Liu, Tai-Ping) Stability of shock waves for the Broadwell equations. **89k:76078**
Causon, D. M. High resolution finite volume schemes and computational aerodynamics. (*see* **89j:35007**)
Chen, Gui Qiang Convergence of the Lax-Friedrichs scheme for isentropic gas dynamics. III. **89f:76007**
Chéret, Roger Représentation quasi polytropique de la surface d'état des produits de détonation d'un explosif condensé. (English summary) [Quasipolytropic representation of the equation of state of the detonation products of a condensed explosive] **89m:80010**
Chorin, Alexandre Joel Scaling laws in the vortex lattice model of turbulence. **89m:76048**
Clarke, Joseph H. (*with* Delale, Can F.) Expansion flows on walls with nonequilibrium condensation. **89e:76056**
Cole, Julian D. Early transonic ideas in the light of later developments. (*see* **89j:76005**)
Colombeau, J.-F. Generalized functions; multiplication of distributions; applications to elasticity, elastoplasticity, fluid dynamics and acoustics. (*see* **89i:00025**)
Cornille, Henri Construction of positive exact $(2+1)$-dimensional shock wave solutions for two discrete Boltzmann models. **89j:82036**
Dar'in, N. A. (*with* Mazhukin, V. I.; Samarskiĭ, A. A.) A finite-difference method for solving gas dynamic equations using adaptive grids that are dynamically connected with the solution. (Russian) **89i:76007**
Delale, Can F. *see* **Clarke, Joseph H , 89e:76056**
Deryabin, S. L. Three-dimensional effusion in a vacuum of an inhomogeneous moving gas under conditions of the action of mass forces. (Russian) **89m:76051**
Deshpande, S. M. (*with* Mandal, J. C.) Kinetic theory based new upwind methods for inviscid compressible flows. (Russian and Bulgarian summaries) **89j:76011**
Dey, Charlie *see* **Dey, S. K., 89j:65063**
Dey, S. K. (*with* Dey, Charlie) Accurate explicit finite difference solution of the shock tube problem. **89j:65063**
Dinu, Liviu The linearized problem in the adiabatic multidimensional gasdynamics. I. **89k:35138**
DiPerna, Ronald Nonuniform structures in solutions to conservative systems. **89i:35094**
Donato, A. *see* **Ames, William F., 89k:35141**
Du, Xun On the weak discontinuity surfaces and types of equation systems in fluid mechanics. **89j:35013**
Fishelov, Dalia Spectral methods for the small disturbance equation of transonic flows. **89h:76025**
Gardner, Robert A. On an asymptotic model for Mach stem formation in planar detonations. **89e:80010**
Glaister, P. Flux difference splitting for the Euler equations with axial symmetry. **89e:76007**
Golovachëv, Yu. P. (*with* Leont'eva, N. V.) Numerical modeling of a supersonic flow around a sphere in a gas with changing density. (Russian) (Not in MR)
Harabetian, Eduard A numerical method for computing viscous shock layers. (*see* **89j:35007**)
Hunter, J. K. (*with* Keller, J. B.) Nonlinear hyperbolic waves. **89f:35129**
Jameson, Antony Computational transonics. **89k:76068**
Kansa, E. J. Shock computations with adaptive mesh refinement and moving grids. **89e:76010**
Kel'bert, M. Ya. *see* **Borovikov, V. A., 89k:76029**
Keller, J. B. *see* **Hunter, J. K., 89f:35129**
Kellogg, R. B. Discontinuous solutions of the linearized, steady state, compressible, viscous, Navier-Stokes equations. **89g:35090**
Kraĭko, A. N. (*with* Polyanskiĭ, A. R.; Tillyaeva, N. I.) On a "forward" calculation of flows with shock waves. (Russian) (Not in MR)
Kulikovskiĭ, A. G. Strong discontinuities in flows of continua and their structure. (Russian) **89k:76001**
van Leer, B. *see* **Roe, P. L.**, (**89j:76004**)
Le Floch, Philippe Entropy weak solutions to nonlinear hyperbolic systems under nonconservative form. **89h:35194**
Łęgowski, Z. (*with* Wlodarczyk, E.) A method for increasing the smoothness of functions as applied for the construction of generalized solutions to stationary plane flow problems in the class of simple waves. (Russian and Polish summaries) **89k:76040**
Leont'eva, N. V. *see* **Golovachëv, Yu. P.**, (Not in MR)
Li, Da Qian Some free boundary problems for quasilinear hyperbolic systems. **89m:35218**
Li, De Ning The nonlinear initial-boundary value problem and the existence of multidimensional shock wave for quasilinear hyperbolic-parabolic coupled systems. **89d:35114**
Liu, Tai-Ping *see* **Caflisch, Russel E., 89k:76078**
Longo, E. (*with* Monaco, R.; Płatkowski, T.) Sound and shock wave propagations by the semidiscrete Boltzmann equation. (French summary) **89h:35306**
Mandal, J. C. *see* **Deshpande, S. M., 89j:76011**
Martyushov, S. N. Two-dimensional one- and two-sectorial decay of a discontinuity in a moving ideal gas. (Russian) **89j:76071**
Mazhukin, V. I. *see* **Dar'in, N. A.; et al., 89i:76007**
Monaco, R. *see* **Longo, E.; et al., 89h:35306**
Pandey, S. K. *see* **Singh, J. B., 89h:76048a** *and* **89h:76048b**
Płatkowski, T. *see* **Longo, E.; et al., 89h:35306**
Polyanskiĭ, A. R. *see* **Kraĭko, A. N.; et al.**, (Not in MR)
Potëmin, G. V. Algebro-geometric construction of self-similar solutions of the Whitham equations. (Russian) **89m:35199**
Roe, P. L. (*with* van Leer, B.) Nonexistence, nonuniqueness and slow convergence in discrete conservation laws. (*see* **89j:76004**)
Romanov, A. S. (*with* Stytsyna, A. A.) The initial stage in the development of dynamic perturbations in a nonlinearly heat-conducting gas. **89i:76076**
Samarskiĭ, A. A. *see* **Dar'in, N. A.; et al., 89i:76007**
Schöffel, St. U. Nonlinear resonance phenomena for the Euler-equations coupled with chemical reaction-kinetics. (*see* **89j:35007**)
Shinn, Judy L. *see* **Yee, H. C., 89k:76010**
Šilhavý, M. On the admissibility of shocks and propagating phase boundaries in a van der Waals fluid. (*see* **89f:73005**)
Singh, J. B. (*with* Pandey, S. K.) Self-similar magnetogasdynamic cylindrical shock waves. I. **89h:76048a**
— (*with* Pandey, S. K.) Propagation of magneto-radiative shock waves. II. **89h:76048b**
Sommerfeld, Martin Numerical prediction of shock wave focusing phenomena in air with experimental verification. (*see* **89j:35007**)
Strumía, Alberto *see* **Boillat, Guy, 89h:35205**
Stytsyna, A. A. *see* **Romanov, A. S., 89i:76076**
Tillyaeva, N. I. *see* **Kraĭko, A. N.; et al.**, (Not in MR)
Toro, E. F. Random-choice based hybrid methods for one- and two-dimensional gas dynamics. (*see* **89j:35007**)
Torrisi, M. Similarity solutions and wave propagation in a reactive polytropic gas. **89e:80017**
Vatsya, S. R. A representation and approximation of the solutions of hyperbolic differential equations. **89g:35024**
Vladimirov, V. A. ★Групповая классификация уравнений гидродинамики реагирующих и релаксирующих сред. (Russian) [Group-theoretic classification of equations of hydrodynamics of reacting and relaxing media] **89e:80018**
Włodarczyk, E. *see* **Łęgowski, Z., 89k:76040**
Yee, H. C. (*with* Shinn, Judy L.) Semi-implicit and fully implicit shock-capturing methods for nonequilibrium flows. **89k:76010**

76M05 Nonhomentropic flows of compressible fluids

Deryabin, S. L. Three-dimensional effusion in a vacuum of an inhomogeneous moving gas under conditions of the action of mass forces. (Russian) **89m:76051**
Djordjević, V. D. (*with* Redekopp, L. G.) Linear stability analysis of nonhomentropic, inviscid compressible flows. **89i:76073**
Redekopp, L. G. *see* **Djordjević, V. D., 89i:76073**

Items with secondary classifications in 76M05

Sofronov, I. L. A rapidly converging method for determining stationary solutions of Euler equations. (Russian) **89g:65159**

76Nxx Compressible fluids and gas dynamics, general

Liou, Meng-Sing Solutions of one-dimensional steady nozzle flow revisited. (Not in MR)

76N05 Boundary layer theory

Fedorov, A. V. Excitation of instability waves of the secondary flow in a boundary layer on a sliding wing. **89k:76072**
Gerasimov, Yu. Ya. Improvement of methods for calculating a three-dimensional boundary layer. (Russian) **89h:76027**
Lipatov, I. I. (*with* Neĭland, V. Ya.) On the theory of the nonsteady separation and interaction of a boundary layer with a supersonic gas flow. (Russian) **89i:76074**
Neĭland, V. Ya. *see* **Lipatov, I. I., 89i:76074**
Struminskiĭ, V. V. The theory of flow over high-aspect-ratio yawed and swept wings. **89j:76066**

Items with secondary classifications in 76N05

Abalakin, I. V. (*with* Dorodnitsyn, L. V.; Elizarova, T. G.) Direct numerical modeling of the Blasius problem. **89f:76057**
Cebeci, Tuncer (*with* Su, Wenhan) Separation of three-dimensional laminar boundary layers on a prolate spheroid. **89m:76029**
Char, Ming-I *see* **Chen, Chao Kuang, 89i:80001**
Chen, Chao Kuang (*with* Char, Ming-I) Heat transfer of a continuous, stretching surface with suction or blowing. **89i:80001**
Dhanak, M. R. Turbulent boundary layer on a circular cylinder: the low-wavenumber surface pressure spectrum due to a low-Mach-number flow. **89m:76059**
Dorodnitsyn, L. V. *see* **Abalakin, I. V.; et al., 89f:76057**
Elizarova, T. G. *see* **Abalakin, I. V.; et al., 89f:76057**
Khusnutdinova, N. V. A boundary value problem for a degenerate system of parabolic equations arising in boundary layer theory. (Russian) **89i:35085**
Maslov, V. P. (*with* Omel'yanov, G. A.; Tsupin, V. A.) Quasilinear nonstationary equations and evolution of interior boundary layers: asymptotical soliton-like solutions. **89e:76065**
Neĭland, V. Ya. Asymptotic theory of the interaction and separation of a boundary layer in a supersonic gas flow. (Russian) **89e:76057**
— Features of the interaction and separation of a transcritical boundary layer. **89i:76068**
Omel'yanov, G. A. *see* **Maslov, V. P.; et al., 89e:76065**
Su, Wenhan *see* **Cebeci, Tuncer, 89m:76029**
Tsupin, V. A. *see* **Maslov, V. P.; et al., 89e:76065**
Vigdorovich, I. I. The strong injection of gas into a supersonic flow with turbulent mixing. **89j:76063**
Wang, Chang Yi The boundary layer due to a moving heated line on a horizontal surface. **89c:76096**
Wilcox, David C. Multiscale model for turbulent flows. **89k:76063**

Zhuk, V. I. On the flow around a permeable section of a wall in a region of free interaction. (Russian) **89i:76067**

76N10 Compressible fluids, general

Asano, Kiyoshi On the incompressible limit of the compressible Euler equation. **89d:76021**
Bautin, S. P. A class of two-dimensional steady flows of a viscous gas. (Russian) **89h:76028**
— Representation of the solutions of the Navier-Stokes system near the contact characteristic. **89k:76073**
Borodich, F. M. Spatial self-similar problems of the penetration of blunted bodies into an ideal compressible fluid (the supersonic case). **89j:76067**
Cimatti, Giovanni A rigorous justification of the Reynolds equation. **89a:76043**
Dil′daev, M. S. Numerical solution of a self-similar problem on the permeation of stress into a compressible fluid. (Russian) (*see* **89b:00017**)
Godin, O. A. Reciprocity relations for waves in a compressible fluid. (Russian) **89e:76062**
Jirásek, F. (*with* Neustupa, Jiří) The Rothe approximations of solutions to the modified system of equations of motion of viscous compressible fluid and their convergence. (Russian and Bulgarian summaries) **89k:76074**
Nagasawa, Takeyuki On the outer pressure problem of the one-dimensional polytropic ideal gas. **89c:76078**
Neustupa, Jiří *see* **Jirásek, F., 89k:76074**
Nishitani, Toshiyuki Similarity transformations of compressible viscous flow in conservative force fields. I. Two-dimensional problem. **89c:76079**
Ragulin, V. V. On the problem of the flow of an ideal barotropic fluid. (Russian) **89d:76022**
Shelukhin, V. V. A class of generalized solutions in the sense of Young of the equations of an ideal compressible fluid. (Russian) **89e:76063**
Tersenov, A. S. A model of a system of equations in the dynamics of a compressible viscous fluid. (Russian) **89k:76075**
Tracey, Emma K. The initial and ultimate motions of an impulsively started cylinder in a compressible fluid. **89j:76068**

Items with secondary classifications in 76N10

Antes, Heinz ★ Anwendungen der Methode der Randelemente in der Elastodynamik und der Fluiddynamik. (German) [Applications of the method of boundary elements in elastodynamics and in fluid dynamics] **89k:73002**
Asano, Kiyoshi (*with* Ukai, Seiji) On the asymptotic properties of fluid dynamical equation systems. (Japanese) **89j:76072**
Beirão da Veiga, H. Stationary motions and the incompressible limit for compressible viscous fluids. **89f:35164**
Borodich, F. M. Problems of the interaction of blunt bodies with an acoustic medium. (Russian) **89m:76050**
Borovikov, V. A. (*with* Kel′bert, M. Ya.) Adaptation of initial conditions for internal waves in a weakly compressible fluid. **89k:76029**
Bristeau, M. O. (*with* Glowinski, R.; Mantel, B.; Périaux, Jacques; Singh, Gian Sundar) On the use of subcycling for solving the compressible Navier-Stokes equations by operator-splitting and finite element methods. **89h:65211**
Chipot, Michel Some results on the compressible Reynolds equation. **89a:35177**
Cooper, Jeffery The acoustic approximation for compressible flow in the presence of a surface undergoing small amplitude vibrations. **89d:35140**
Defranceschi, A. On the stationary, compressible and incompressible Navier-Stokes equations. **89m:35178**
Demidov, M. A. (*with* Mikhaĭlov, A. P.) A new class of multidimensional flows of compressible media and the localization effect. **89f:35117**
Deshpande, S. M. (*with* Mandal, J. C.) Kinetic theory based new upwind methods for inviscid compressible flows. (Russian and Bulgarian summaries) **89j:76011**
Devloo, Philippe (*with* Oden, J. T.; Pattani, Paresh) An *h-p* adaptive finite element method for the numerical simulation of compressible flow. **89h:76003**
El Dabaghi, F. Steady incompressible and compressible solution of Navier-Stokes equations by rotational correction. (*see* **89j:76004**)
Ferm, Lars Open boundary conditions for stationary inviscid flow problems. **89f:76008**
Franca, Leopoldo P. *see* **Hughes, Thomas J. R.; et al., 89j:76015f**
Gabov, S. A. (*with* Tverskoĭ, M. B.) A study of linear equations of the dynamics of a compressible stratified fluid. (Russian) **89i:35117**
Gagneux, Gérard (*with* Lefevere, Anne-Marie; Madaune-Tort, Monique) Une approche analytique d'un modèle black oil des écoulements triphasiques compressibles en ingénierie pétrolière. (English summary) [An analytic approach to a black-oil model for three-phase compressible flows in petroleum engineering] **89c:76106**
Ghidaglia, Jean-Michel (*with* Temam, Roger) Long time behavior for partly dissipative equations: the slightly compressible 2D-Navier-Stokes equations. **89f:35168**
Giniatullin, A. I. *see* **Maslennikova, V. N., 89m:35181**
Glowinski, R. *see* **Bristeau, M. O.; et al., 89h:65211**
Glushko, A. V. *see* **Maslennikova, V. N., 89i:35120**
Götz, Günter Solitons in Newtonian gravity. **89e:85002**
Halpern, Laurence Conditions aux limites artificielles pour un système incomplètement parabolique. (English summary) [Artificial boundary conditions for incompletely parabolic systems] **89m:35180**
Hughes, Thomas J. R. (*with* Mallet, Michel) A new finite element formulation for computational fluid dynamics. III. The generalized streamline operator for multidimensional advective-diffusive systems. **89j:76015a**
— (*with* Mallet, Michel) A new finite element formulation for computational fluid dynamics. IV. A discontinuity-capturing operator for multidimensional advective-diffusive systems. **89j:76015c**
— (*with* Mallet, Michel) Errata: "A new finite element formulation for computational fluid dynamics. III. The generalized streamline operator for multidimensional advective-diffusive systems". **89j:76015b**
— (*with* Franca, Leopoldo P.; Mallet, Michel) A new finite element formulation for computational fluid dynamics. VI. Convergence analysis of the generalized SUPG formulation for linear time-dependent multidimensional advective-diffusive systems. **89j:76015f**
Isozaki, Hiroshi Singular limits for the compressible Euler equation in an exterior domain. **89b:35137**
Jameson, Antony Computational transonics. **89k:76068**
Kawashima, Shuichi *see* **Makino, Tetu; et al., 89d:35144**
Kel′bert, M. Ya. *see* **Borovikov, V. A., 89k:76029**
Kellogg, R. B. Discontinuous solutions of the linearized, steady state, compressible, viscous, Navier-Stokes equations. **89g:35090**
Kleinstein, Gerald G. On the nonpersistence of irrotational motion in a viscous heat-conducting fluid. **89c:76024**
Kreiss, Gunilla Convergence to steady state of solutions of the Euler equations. I. **89b:65296**
Kudryavtsev, B. A. *see* **Zobnin, A. I.; et al., 89m:76064**
Lefevere, Anne-Marie *see* **Gagneux, Gérard; et al., 89c:76106**
Madaune-Tort, Monique *see* **Gagneux, Gérard; et al., 89c:76106**
Makino, Tetu (*with* Ukai, Seiji; Kawashima, Shuichi) On compactly supported solutions of the compressible Euler equation. **89d:35144**
Mallet, Michel *see* **Hughes, Thomas J. R., 89j:76015a; 89j:76015b; 89j:76015c** *and* **89j:76015f**
Mandal, J. C. *see* **Deshpande, S. M., 89j:76011**
Mantel, B. *see* **Bristeau, M. O.; et al., 89h:65211**
Maslennikova, V. N. (*with* Giniatullin, A. I.) Spectral properties of operators for systems of the hydrodynamics of a rotating fluid, and the nonuniqueness of the limit amplitude. **89m:35181**
— (*with* Glushko, A. V.) Localization theorems of Tauberian type and the rate of decay of the solution of a system in the hydrodynamics of a viscous compressible fluid. (Russian) **89i:35120**
Mikhaĭlov, A. P. *see* **Demidov, M. A., 89f:35117**
Neustupa, Jiří Global weak solvability of a regularized system of the Navier-Stokes equations for compressible fluid. (Russian and Czech summaries) **89h:35268**
Oden, J. T. *see* **Devloo, Philippe; et al., 89h:76003**
Padula, Mariarosaria Erratum: "Existence of global solutions for 2-dimensional viscous compressible flows" [J. Funct. Anal. **69** (1986), no. 1, 1–20; MR 88a:35214]. **89b:35150a**
— Erratum: "Existence of global solutions for 2-dimensional viscous compressible flows" [J. Funct. Anal. **69** (1986), no. 1, 1–20; MR 88a:35214]. **89b:35150b**
Parton, V. Z. *see* **Zobnin, A. I.; et al., 89m:76064**
Pattani, Paresh *see* **Devloo, Philippe; et al., 89h:76003**
Périaux, Jacques *see* **Bristeau, M. O.; et al., 89h:65211**
Rostand, Philippe (*with* Stoufflet, Bruno) TVD schemes to compute compressible viscous flows on unstructured meshes. (*see* **89j:35007**)
Savel′ev, A. D. (*with* Tolstykh, A. I.) Algorithms for the calculation of viscous gas flows based on third-order compact approximations. (Russian) **89a:76006**
Schochet, Steven Asymptotics for symmetric hyperbolic systems with a large parameter. **89m:35134**
Simakov, S. T. A problem connected with the oscillations of a compressible stratified fluid. **89m:76069**
Singh, Gian Sundar *see* **Bristeau, M. O.; et al., 89h:65211**
Stoufflet, Bruno *see* **Rostand, Philippe, (89j:35007)**
Temam, Roger *see* **Ghidaglia, Jean-Michel, 89f:35168**
Tolstykh, A. I. *see* **Savel′ev, A. D., 89a:76006**
Tverskoĭ, M. B. *see* **Gabov, S. A., 89i:35117**
Ukai, Seiji *see* **Makino, Tetu; et al., 89d:35144** *and* **Asano, Kiyoshi, 89j:76072**
Zobnin, A. I. (*with* Kudryavtsev, B. A.; Parton, V. Z.) Linearized equations of motion of a viscous fluid in a porous medium of periodic structure. **89m:76064**

76N15 Gas dynamics, general

Amosov, A. A. *see* **Zlotnik, A. A., 89g:76036**
Bashkin, V. A. (*with* Egorova, M. V.) An inverted Rayleigh problem in a compressible gas. (Russian) **89f:76058**
Bautin, S. P. Reduction of some problems in gas dynamics to the characteristic Cauchy problem of standard type. (Russian) **89k:76076**
— Analytic construction of flows of a viscous gas using a sequence of the linearized Navier-Stokes systems. (Russian) **89m:76052**
Bochorishvili, R. D. (*with* Skhirtladze, N. M.) Kinetic type splitting. (Russian. English and Georgian summaries) **89g:76034**
Bonzani, I. (*with* Monaco, R.; Zavattaro, M. G.) A stochastic model in continuum mechanics: time evolution of the probability density in the random initial-boundary value problem. **89j:76069**
Bruhn, Gerhard Erhaltungssätze und schwache Lösungen der Gasdynamik. [Conservation laws and weak solutions of gas dynamics] **89k:76077**
Burmistrov, A. N. (*with* Kovalev, V. P.) Asymptotic solution of the Whipple equation of gas lubrication for large compressibility numbers. **89i:76075**
Chentsov, N. N. *see* **Zabrodin, A. V., 89i:76079**
Dairbaeva, G. *see* **Smagulov, Sh., 89i:76077**
Demidov, M. A. (*with* Mikhaĭlov, A. P.; Stepanova, V. V.) Localized compression waves. (Russian. English summary) **89c:76080**
— (*with* Klokov, Yu. A.; Mikhaĭlov, A. P.) Localization of the processes of compression and heating in anisotropic media. (Russian. English summary) **89c:76081**
— (*with* Klokov, Yu. A.; Mikhaĭlov, A. P.) Shockless compression of media with arbitrary distribution of entropy. Localization, structures, spectra of the solutions. **89f:76059**
Egorova, M. V. *see* **Bashkin, V. A., 89f:76058**
Elizarova, T. G. A class of kinetically consistent difference schemes of gas dynamics. (Russian) **89a:76044**
Iannece, Donatella (*with* Starita, Giulio) On the operator $(u_{tt}-\varepsilon u_{xx})_t-(u_{tt}-u_{xx})_{xx}$ related to thermomechanics of fluids. (Italian summary) **89j:76070**
Keĭl′man, N. È. Stabilization of solutions of an initial-boundary value problem for equations of a barotropic gas with viscosity depending on the density. (Russian) **89e:76064**
Klokov, Yu. A. *see* **Demidov, M. A.; et al., 89c:76081** *and* **89f:76059**
Kovalev, V. P. *see* **Burmistrov, A. N., 89i:76075**

Martyushov, S. N. Two-dimensional one- and two-sectorial decay of a discontinuity in a moving ideal gas. (Russian) **89j:76071**

Marusova, N. Yu. Cauchy problems for equations of motion of a viscous gas with a nonmonotone state function. (Russian) **89g:76035**

Maslov, V. P. (*with* Omel′yanov, G. A.; Tsupin, V. A.) Quasilinear nonstationary equations and evolution of interior boundary layers: asymptotical soliton-like solutions. **89e:76065**

— Violation of the principle of causality for nonstationary equations of two- and three-dimensional gas dynamics for sufficiently large Reynolds numbers. (Russian. English summary) **89e:76066**

Meshkov, A. G. (*with* Mikhalyaev, B. B.) Gas dynamics equations that admit an infinite number of symmetries. (Russian. English summary) **89f:76060**

Mikhaĭlov, A. P. *see* **Demidov, M. A.; et al., 89c:76080**; **89c:76081** *and* **89f:76059**

Mikhalyaev, B. B. *see* **Meshkov, A. G., 89f:76060**

Monaco, R. *see* **Bonzani, I.; et al., 89j:76069**

Nagasawa, Takeyuki On the asymptotic behavior of the one-dimensional motion of the polytropic ideal gas with stress-free condition. **89m:76053**

Omel′yanov, G. A. *see* **Maslov, V. P.; et al., 89e:76065**

Papin, A. A. *see* **Vaĭgant, V. A., 89e:76068**

Rebhan, E. An infinity of conservation laws for highly symmetric nonisentropic ideal gas flow. **89m:76054**

Romanov, A. S. (*with* Stytsyna, A. A.) The initial stage in the development of dynamic perturbations in a nonlinearly heat-conducting gas. **89i:76076**

Serova, M. M. Conditions of invariance of equations of gas dynamics. (Russian) **89f:76061**

Serova, V. D. Propagation of weak contact discontinuities along the bicharacteristics of equations of gas dynamics. **89e:76067**

Shelukhin, V. V. Propagation of initial perturbations in a viscous gas. (Russian) **89d:76023**

Sinitsyn, V. Yu. Combined-invariant motions of a perfect viscous and heat-conducting gas. (Russian) **89c:76082**

Skhirtladze, N. M. *see* **Bochorishvili, R. D., 89g:76034**

Slemrod, M. The vanishing viscosity-capillarity approach to the Riemann problem for a van der Waals fluid. **89c:76083**

Smagulov, Sh. (*with* Dairbaeva, G.) Estimates for a difference solution of a scheme of "cross" type for a model of a viscous heat-conducting gas. (Russian) **89i:76077**

— (*with* Zhanasbaeva, U. B.) Estimates for the solution of a difference scheme for an equation of a barotropic gas with variable viscosity. **89f:76062**

Sozou, C. On some wave solutions in a differentially rotating polytropic gas. **89m:76055**

Starita, Giulio *see* **Iannece, Donatella, 89j:76070**

Stepanova, V. V. Self-similar exponential peaking regimes in problems of gas dynamics. (Russian) **89c:76084**

— *see also* **Demidov, M. A.; et al., 89c:76080**

Straškraba, Ivan Solution of a mathematical model of a single piston pump with a more detailed description of the valve function. (Russian and Czech summaries) **89h:76029**

Stytsyna, A. A. *see* **Romanov, A. S., 89i:76076**

Titov, S. S. Asymptotics of some functions that describe the spherical-symmetric scattering of a gas in a vacuum. (Russian) (*see* **89h:76002**)

Tsupin, V. A. *see* **Maslov, V. P.; et al., 89e:76065**

Vaĭgant, V. A. (*with* Papin, A. A.) Solvability of an initial-boundary value problem for equations of a barotropic gas with viscosity depending on the density. (Russian) **89e:76068**

Vakul′chik, P. A. Stability of the characteristic difference scheme for a system of equations in two-dimensional gas dynamics. (Russian. English summary) **89c:76085**

Valli, Alberto Stationary solutions to the Navier-Stokes equations for compressible fluids. **89b:76017**

Verosky, John Boundary conditions and the first-order conserved density for gas dynamics. **89i:76078**

Zabrodin, A. V. (*with* Chentsov, N. N.) Approximate solutions in the Lagrange ballistic problem and its generalizations. (Russian. English summary) **89i:76079**

Zavattaro, M. G. *see* **Bonzani, I.; et al., 89j:76069**

Zhanasbaeva, U. B. *see* **Smagulov, Sh., 89f:76062**

Zlotnik, A. A. (*with* Amosov, A. A.) Generalized solutions "in the large" of equations of the one-dimensional motion of a viscous barotropic gas. **89g:76036**

Items with secondary classifications in 76N15

Akhatov, I. Sh. (*with* Gazizov, R. K.; Ibragimov, N. Kh.) Fundamental types of invariant equations in one-dimensional gas dynamics. (Russian) **89j:58145**

Amosov, A. A. (*with* Zlotnik, A. A.) Generalized solutions "in the large" of the equations of the one-dimensional motion of a viscous heat-conducting gas. **89k:35193**

Antontsev, S. N. ★ Локализация решений вырождающихся уравнений механики сплошной среды. (Russian) [Localization of solutions of degenerate equations of continuum mechanics] **89h:35259**

Aptekarev, A. I. (*with* Volevich, L. R.) The finite element method in a problem of subsonic potential flows of compressible gas around bodies. (Russian) **89k:76002**

Ardelyan, N. V. (*with* Chernigovskiĭ, S. V.) Stability of difference schemes of gasdynamics with viscosity and heat conductivity. **89j:65061**

Ballmann, J. *see* **Westenberger, H.**, (**89j:35007**)

Bautin, S. P. Representation of the solutions of a system of Navier-Stokes equations by means of characteristic series. (Russian) **89k:35178**

Benjamin, T. B. (*with* Bowman, S. B.) Discontinuous solutions of one-dimensional Hamiltonian systems. **89h:35197**

Berniyazov, Zh. E. *see* **Smagulov, Sh.**, (**89j:00015**)

Bowman, S. B. *see* **Benjamin, T. B., 89h:35197**

Bulgarelli, U. (*with* Cerimele, M. M.; Zaretti, A.) A numerical method for a mathematical model in gravitational hydrodynamics. **89j:76009**

Busch-Vishniac, Ilene J. *see* **Paynter, Henry M., 89i:35088**

Byrkin, A. P. (*with* Tolstykh, A. I.) Third- and fourth-order compact schemes in problems of internal flows of viscous and nonviscous gases. (Russian) **89i:76004**

Cerimele, M. M. *see* **Bulgarelli, U.; et al., 89j:76009**

Chacón Rebollo, Tomás Invariance group of the periodic Euler problem. (Spanish) **89j:35106**

Chen, Gui Qiang Convergence of the Lax-Friedrichs scheme for isentropic gas dynamics. III. **89f:76007**

— *see also* **Zhang, Tong, 89a:35136** *and* **Ding, Xia Xi; et al., 89f:76006**

Chernigovskiĭ, S. V. *see* **Ardelyan, N. V., 89j:65061**

Chopard, Bastien (*with* Droz, Michel) Cellular automata model for heat conduction in a fluid. **89a:80002**

Cottet, Georges-Henri Convergence of a vortex in cell method for the two-dimensional Euler equations. **89b:65303**

Curtis, W. D. Global uniformly expanding finite amplitude waves. **89d:35111**

Dar′in, N. A. (*with* Mazhukin, V. I.; Samarskiĭ, A. A.) A finite-difference method for solving gas dynamic equations using adaptive grids that are dynamically connected with the solution. (Russian) **89i:76007**

Dervieux, Alain *see* **Lallemand, Marie-Hélène, 89i:76013**

Deshpande, S. M. *see* **Mandal, J. C.**, (**89j:35007**)

Ding, Xia Xi (*with* Chen, Gui Qiang; Luo, Pei Zhu) Convergence of the Lax-Friedrichs scheme for isentropic gas dynamics. I, II. **89f:76006**

Droz, Michel *see* **Chopard, Bastien, 89a:80002**

Du, Xun On the stability of finite difference method for solving three-dimensional unsteady gasdynamic equations with artificial viscosity terms. **89i:76008**

— On the weak discontinuity surfaces and types of equation systems in fluid mechanics. **89j:35013**

Dubois, François (*with* Le Floch, Philippe) Boundary conditions for nonlinear hyperbolic systems of conservation laws. (*see* **89j:35007**)

Einfeldt, Bernd On Godunov-type methods for gas dynamics. **89e:65086**

Elizarova, T. G. Boundary conditions for kinetically consistent difference schemes of gas dynamics. (Russian) **89e:76006**

Emanuel, G. (*with* Liu, Min-Shan) Shock wave derivatives. **89i:76069**

Favorskiĭ, A. P. *see* **Vyaznikov, K. V.; et al., 89a:65133**

Gardner, Robert A. On an asymptotic model for Mach stem formation in planar detonations. **89e:80010**

Gavrilyuk, V. N. (*with* Semushin, S. A.) A monotone scheme of the second order of accuracy for the calculation of three-dimensional flows of an inviscid gas. (Russian) **89j:65064**

Gazizov, R. K. *see* **Akhatov, I. Sh.; et al., 89j:58145**

Glaister, P. A shock-reflection problem in compressible-gas dynamics with a similarity solution. **89j:76064**

— Flux difference splitting for the Euler equations with axial symmetry. **89e:76007**

Hunter, J. K. (*with* Majda, A.; Rosales, R.) Resonantly interacting, weakly nonlinear hyperbolic waves. II. Several space variables. **89h:35199**

Ibragimov, N. Kh. *see* **Akhatov, I. Sh.; et al., 89j:58145**

Karpov, V. Ya. A method for calculating Rayleigh-Taylor instability in Euler variables. (Russian) **89j:76018**

Koren, Barry (*with* Spekreijse, Stefan) Solution of the steady Euler equations by a multigrid method. **89j:76019**

Kraĭko, A. N. The integration of numerical methods and analytic approaches in gas dynamics. (Russian) **89f:76009**

Kritsuk, A. G. Thermal instability of nonequilibrium systems. **89k:85007**

Kröner, Dietmar Numerical schemes for the Euler equations in two space dimensions without dimensional splitting. (*see* **89j:35007**)

Lallemand, Marie-Hélène (*with* Dervieux, Alain) A multigrid finite element method for solving the two-dimensional Euler equations. **89i:76013**

Laptev, S. A. Solution of a variational problem for dynamic potential. **89m:49002**

Le Floch, Philippe *see* **Dubois, François**, (**89j:35007**)

Levanov, E. I. (*with* Sot·skiĭ, E. N.) Heat transfer taking into account relaxation of the thermal flow. (Russian) **89d:80018**

Lin, Long Wei On the vacuum state for the equations of isentropic gas dynamics. **89k:35220**

Lin, Pei Xiong The construction of global continuous solutions for the isentropic gas dynamics equations. **89a:65190**

Liu, Min-Shan *see* **Emanuel, G., 89i:76069**

Liu, Tai-Ping (*with* Xin, Zhou Ping) Nonlinear stability of rarefaction waves for compressible Navier-Stokes equations. **89i:35112**

Luo, Pei Zhu *see* **Ding, Xia Xi; et al., 89f:76006**

Majda, A. *see* **Hunter, J. K.; et al., 89h:35199**

Majorana, Armando Analytical solutions of the Rankine-Hugoniot relations for a relativistic simple gas. (Italian and Russian summaries) **89e:76059**

Mandal, J. C. (*with* Deshpande, S. M.) Higher order accurate kinetic flux vector splitting method for Euler equations. (*see* **89j:35007**)

Maravall Casesnoves, Darío Hilbert-Lobachevskiĭ spaces. The mass of a relativistic gas. Relativistic waves of matter. (Spanish. English summary) **89b:76026**

Mazhukin, V. I. *see* **Dar′in, N. A.; et al., 89i:76007**

Michaux, B. (*with* Rakotoson, J.-M.; Shen, Jie) On the existence and regularity of solutions of a quasilinear mixed equation of Leray-Lions type. **89m:35155**

Moretti, Gino A technique for integrating two-dimensional Euler equations. **89j:76022**

Mulder, Wim A. Analysis of a multigrid method for the Euler equations of gas dynamics in two dimensions. **89j:65084**

Nagasawa, Takeyuki Global asymptotics of the outer pressure problem with free boundary. **89h:35353**

Panchenkov, A. N. Hamilton-Jacobi equations in ill-posed extremal problems of gas dynamics. (Russian) **89c:49020**

Paynter, Henry M. (*with* Busch-Vishniac, Ilene J.) Remarks on Riemann's method of characteristics. **89i:35088**

Popov, S. B. *see* **Poveshchenko, Yu. A.; et al., 89i:76015**

Poveshchenko, Yu. A. (*with* Popov, S. B.; Syrovat·skaya, T. N.) Investigation of the stability of two-layer difference schemes of gas dynamics in Euler variables. (Russian) **89i:76015**

Prasad, Phoolan (*with* Srinivasan, Ramalingam) On methods of calculating successive positions of a shock front. **89i:76070**

Rai, Arisudan (*with* Vishwakarma, J. P.) Nonuniform propagation of weak waves through thermally-conducting and dissociating gases. **89i:76071**

Rakotoson, J.-M. *see* **Michaux, B.; et al., 89m:35155**

Rosales, R. *see* **Hunter, J. K.; et al., 89h:35199**

Rychkov, A. D. ★ Математическое моделирование газодинамических процессов в каналах и соплах. (Russian) [Mathematical modeling of gas-dynamic processes in channels and nozzles] **89h:76001**

Samarskiĭ, A. A. Mathematical simulation and the theory of nonstationary localized processes. **89j:00050**

— *see also* **Dar′in, N. A.; et al., 89i:76007**

Semushin, S. A. *see* **Gavrilyuk, V. N., 89j:65064**

Shapiro, Richard A. Prediction of dispersive errors in numerical solution of the Euler equations. (*see* **89j:35007**)

Shearer, Michael Dynamic phase transitions in a van der Waals gas. **89k:76071**

Shen, Jie *see* **Michaux, B.; et al., 89m:35155**

Shokin, Yu. I. Completely conservative difference schemes. **89j:76025**

Smagulov, Sh. (*with* Berniyazov, Zh. E.) Stable difference schemes for models of magnetogasdynamics. (Russian) (*see* **89j:00015**)

Sot·skiĭ, E. N. *see* **Levanov, E. I., 89d:80018**

Spekreijse, Stefan ★ Multigrid solution of the steady Euler equations. **89i:65109**

— Multigrid solution of the steady Euler equations. **89f:65136**

— *see also* **Koren, Barry, 89j:76019**

Srinivasan, Ramalingam *see* **Prasad, Phoolan, 89i:76070**

Štikonas, Artūras A difference scheme for equations of the symmetrical motion of a viscous barotropic gas. (Russian. English and Lithuanian summaries) **89m:65092**

Syrovat·skaya, T. N. *see* **Poveshchenko, Yu. A.; et al., 89i:76015**

Tishkin, V. F. *see* **Vyaznikov, K. V.; et al., 89a:65133**

Tkachenko, S. I. A difference scheme of second order of accuracy for equations of gas dynamics for the compatible approximation of convective flows. **89h:76007**

Tolstykh, A. I. *see* **Byrkin, A. P., 89i:76004**

Toro, E. F. Random-choice based hybrid methods for one- and two-dimensional gas dynamics. (*see* **89j:35007**)

Vakul′chik, P. A. Characteristic difference scheme for a system of equations of three-dimensional gas dynamics. (Russian) **89b:65305**

Vishwakarma, J. P. *see* **Rai, Arisudan, 89i:76071**

Volevich, L. R. *see* **Aptekarev, A. I., 89k:76002**

Vyaznikov, K. V. (*with* Tishkin, V. F.; Favorskiĭ, A. P.) Quasimonotone difference schemes for equations of gas dynamics. (Russian) **89a:65133**

Westenberger, H. (*with* Ballmann, J.) The homogeneous homentropic compression or expansion—a test case for analyzing Sod's operator-splitting. (*see* **89j:35007**)

Xin, Zhou Ping *see* **Liu, Tai-Ping, 89i:35112**

Zaretti, A. *see* **Bulgarelli, U.; et al., 89j:76009**

Zhang, Tong (*with* Chen, Gui Qiang) Some fundamental concepts about system of two spatial dimensional conservation laws. **89a:35136**

Zlotnik, A. A. *see* **Amosov, A. A., 89k:35193**

76N99 None of the above, but in this section

Bulgakov, A. I. *see* **Minaev, G. A.; et al., (89b:00008)**

Chadaev, V. I. *see* **Minaev, G. A.; et al., (89b:00008)**

Minaev, G. A. (*with* Bulgakov, A. I.; Sazonov, A. Yu.; Chadaev, V. I.) Jet flow in a high granular layer, taking into account the shape of the flame. (Russian) (*see* **89b:00008**)

Sazonov, A. Yu. *see* **Minaev, G. A.; et al., (89b:00008)**

Items with secondary classifications in 76N99

Caviglia, Giacomo Composite variational principles and the determination of conservation laws. **89c:49033**

Elizarova, T. G. (*with* Sheretov, Yu. V.) The invariant form of a system of quasi-gas-dynamic equations and the system's connection with the Navier-Stokes equations. (Russian) **89e:35106**

Galiev, Sh. U. ★ Нелинейные волны в органиченных сплошных средах. (Russian) [Nonlinear waves in bounded continua] **89i:73042**

Garadzhaev, A. Spectral theory of a problem of the small motions of an ideal compressible fluid in an elastic body. **89g:35097**

Greenberg, J. M. Continuum limits of discrete gases. **89m:82033**

Hagstrom, T. M. (*with* Hariharan, S. I.) Accurate boundary conditions for exterior problems in gas dynamics. **89b:65232**

Hariharan, S. I. *see* **Hagstrom, T. M., 89b:65232**

Hicks, D. *see* **Kuttler, Kenneth, 89b:35157**

Kuttler, Kenneth (*with* Hicks, D.) Some progress on the hydrocode convergence problem. **89b:35157**

Lim, H. A. Lattice gas automata of fluid dynamics for unsteady flow. **89c:76016**

Prouse, Giovanni (*with* Rolandi, Francesca; Zaretti, A.) On a mathematical model describing interaction between two classical gravitational fields. (Italian summary) **89c:76055**

Rolandi, Francesca *see* **Prouse, Giovanni; et al., 89c:76055**

Sheretov, Yu. V. *see* **Elizarova, T. G., 89e:35106**

Zaretti, A. *see* **Prouse, Giovanni; et al., 89c:76055**

76P05 Rarefied gas flows, Boltzmann equation [see also 82A05]

Akin′shin, V. D. (*with* Makarov, A. I.; Seleznev, V. D.; Sharipov, F. M.) Rarefied gas flow in a plane channel of finite length in a wide range of Knudsen numbers. **89g:76037**

Aleksandrychev, I. P. (*with* Markelov, Yu. I.; Porodnov, B. T.; Seleznev, V. D.) Non-isothermic motion of gases in a channel with incomplete accommodation on the walls. **89f:76063**

Asano, Kiyoshi (*with* Ukai, Seiji) On the asymptotic properties of fluid dynamical equation systems. (Japanese) **89j:76072**

Beale, J. Thomas Large-time behavior of model gases with a discrete set of velocities. **89d:76024**

Caflisch, Russel E. (*with* Liu, Tai-Ping) Stability of shock waves for the Broadwell equations. **89k:76078**

Coron, François (*with* Golse, François; Sulem, C.) A classification of well-posed kinetic layer problems. **89g:76038**

(Doolen, Gary D.) *see* **Hasslacher, Brosl, (89m:01133a)**

(Fu, Castor) *see* **Hasslacher, Brosl, (89m:01133a)**

Golse, François *see* **Coron, François; et al., 89g:76038**

Guerriero, Gabriele *see* **Rionero, S., 89c:76086**

Hamdache, Kamel La méthode de viscosité artificielle pour des modèles de la théorie cinétique discrète. (English summary) [The artificial viscosity method for discrete kinetic models] **89f:76064**

Hasslacher, Brosl Discrete fluids. (*see* **89m:01133a**)

Illner, Reinhard *see* **Płatkowski, T., 89f:76066**

Lachowicz, M. On the limit of the nonlinear Enskog equation corresponding with fluid dynamics. **89f:76065**

Liu, Tai-Ping *see* **Caflisch, Russel E., 89k:76078**

Makarov, A. I. *see* **Akin′shin, V. D.; et al., 89g:76037**

Markelov, Yu. I. *see* **Aleksandrychev, I. P.; et al., 89f:76063**

Monaco, R. (*with* Toscani, Giuseppe) New results on the semidiscrete Boltzmann equation for a binary gas mixture. (Italian summary) **89e:76069**

Muntz, E. P. Rarefied gas dynamics. (*see* **89g:76002**)

Płatkowski, T. (*with* Illner, Reinhard) Discrete velocity models of the Boltzmann equation: a survey on the mathematical aspects of the theory. **89f:76066**

Porodnov, B. T. *see* **Aleksandrychev, I. P.; et al., 89f:76063**

Rionero, S. (*with* Guerriero, Gabriele) On the stability of the solutions to an integral evolution equation of the nonlinear particle transport theory. (Italian summary) **89c:76086**

Seleznev, V. D. *see* **Aleksandrychev, I. P.; et al., 89f:76063** *and* **Akin′shin, V. D.; et al., 89g:76037**

Semenets, Yu. M. The fundamental kinetic equation for a model of a rarefied gas that can be used in the statistical method of particles in cells. **89d:76025**

Sharipov, F. M. *see* **Akin′shin, V. D.; et al., 89g:76037**

(Shimomura, Tsutomu) *see* **Hasslacher, Brosl, (89m:01133a)**

Sulem, C. *see* **Coron, François; et al., 89g:76038**

Toscani, Giuseppe *see* **Monaco, R., 89e:76069**

Ukai, Seiji On the initial-boundary value problem for the Boltzmann equation. (*see* **89g:76004**)

— *see also* **Asano, Kiyoshi, 89j:76072**

Items with secondary classifications in 76P05

Abalakin, I. V. (*with* Dorodnitsyn, L. V.; Elizarova, T. G.) Direct numerical modeling of the Blasius problem. **89f:76057**

Amirov, A. Kh. ★ О существовании и единственности решения одной обратной задачи для кинетического уравнения. (Russian) [Existence and uniqueness of the solution of an inverse problem for the kinetic equation] **89c:35151**

Arkeryd, Leif Existence theorems for certain kinetic equations and large data. **89h:82014**

— Stability in L^1 for the spatially homogeneous Boltzmann equation. **89h:82015**

Banach, Zbigniew On the fundamentals of extended thermodynamics (ET) of a one-dimensional rarefied gas. **89c:82029**

Bellomo, N. (*with* Lachowicz, M.) On the asymptotic equivalence between the Enskog and the Boltzmann equations. **89h:82016**

Binder, P. M. Lattice models of the Lorentz gas: physical and dynamical properties. **89c:82030**

Bony, Jean-Michel Solutions globales bornées pour les modèles discrets de l'équation de Boltzmann, en dimension 1 d'espace. [Bounded global solutions for discrete models of the Boltzmann equation in one space dimension] **89b:35141**

Bonzani, I. On the solution of first order evolution problems in continuum physics. **89h:35070**

Branchina, Vincenzo *see* **Majorana, Armando, 89i:82039**

Cabannes, Henri (*with* Kawashima, Shuichi) Le problème aux valeurs initiales en théorie cinétique discrète. (English summary) [The initial-value problem in discrete kinetic theory] **89m:82030**

Cercignani, Carlo (*with* Illner, Reinhard; Shinbrot, Marvin) A boundary value problem for discrete-velocity models. **89d:82068**

— Nonlinear problems in the kinetic theory of gases. (*see* **89g:58004**)

— (*with* Illner, Reinhard; Shinbrot, Marvin) A boundary value problem for the two-dimensional Broadwell model. **89c:82031**

Cornille, Henri Exact $(2+1)$-dimensional solutions for two discrete velocity Boltzmann models with four independent densities. **89f:82033**

— Exact $1+1$ dimensional solutions of the discrete velocity Broadwell-Boltzmann model. **89c:82032**

— Construction of positive $(2+1)$-dimensional solutions for three discrete Boltzmann models. **89j:82035**

— Exact solutions for discrete kinetic models with ternary collisions. **89f:82034**

— Construction of positive exact $(2+1)$-dimensional shock wave solutions for two discrete Boltzmann models. **89j:82036**

— Exact solutions for the discrete Boltzmann models with specular reflection. **89i:82034**

Deshpande, S. M. (*with* Mandal, J. C.) Kinetic theory based new upwind methods for inviscid compressible flows. (Russian and Bulgarian summaries) **89j:76011**

— *see also* **Mandal, J. C., (89j:35007)**

Dorning, J. J. *see* **Holloway, James Paul, 89d:82070**

Dorodnitsyn, L. V. *see* **Abalakin, I. V.; et al., 89f:76057**

Dudyński, Marek (*with* Ekiel-Jeżewska, Maria L.) On the linearized relativistic Boltzmann equation. I. Existence of solutions. **89h:82017**

— The Boltzmann-Lorentz model for particles with spin. III. The Grad method of moments. **89j:82037**

Dukek, G. *see* **Rupp, D.; et al., 89h:82023**

Ekiel-Jeżewska, Maria L. *see* **Dudyński, Marek, 89h:82017**

Elizarova, T. G. Boundary conditions for kinetically consistent difference schemes of gas dynamics. (Russian) **89e:76006**

— *see also* **Abalakin, I. V.; et al., 89f:76057**
Frosali, G. (*with* Protopopescu, V.) Can the mixed norm be used in kinetic theory? (Italian summary) **89d:47084**
Gatignol, Renée The hydrodynamical description for a discrete velocity model of gas. **89j:82039**
Golse, François (*with* Perthame, Benoît; Sulem, C.) On a boundary layer problem for the nonlinear Boltzmann equation. **89h:82018**
Greenberg, J. M. Continuum limits of discrete gases. **89m:82033**
Greenberg, William (*with* van der Mee, C. V. M.; Waluś, Włodzimierz) Strong solutions of stationary equations in abstract kinetic theory. **89e:42010**
Gustafsson, Tommy Global L^p-properties for the spatially homogeneous Boltzmann equation. **89h:82019**
Hamdache, Kamel Problèmes aux limites pour l'équation de Boltzmann: existence globale de solutions. (English summary) [Boundary value problems for the Boltzmann equation: global existence of solutions] **89f:45016**
Hénon, Michel Viscosity of a lattice gas. **89h:76005**
Holloway, James Paul (*with* Dorning, J. J.) The dynamics of coupled nonlinear model Boltzmann equations. **89d:82070**
Ianiro, N. (*with* Triolo, L.) Stationary Boltzmann equation for a degenerate gas in a slab: boundary value problem and hydrodynamics. **89h:82020**
Illner, Reinhard (*with* Pulvirenti, Mario) A derivation of the BBGKY-hierarchy for hard sphere particle systems. **89b:82051**
— Derivation and validity of the Boltzmann equation: some remarks on reversibility concepts, the H-functional and coarse-graining. **89i:82037**
— *see also* **Cercignani, Carlo; et al., 89c:82031** *and* **89d:82068**
Inozemtseva, N. G. (*with* Sadovnikov, B. I.) The evolution of the Bogolyubov functional hypothesis and nonlocality of transport processes in hard-sphere hydrodynamics. **89c:82033**
Jasiukiewicz, Cz. (*with* Paszkiewicz, T.) The explicit time-dependence of moments of the distribution function for the Lorentz gas with planar symmetry in **k**-space. **89g:82042**
Kawashima, Shuichi The Boltzmann equation and thirteen moments. **89c:82034**
— *see also* **Cabannes, Henri, 89m:82030**
Kondyurin, Yu. N. A method for direct statistical modeling of equations in hydrodynamics. (Russian) **89j:82040**
Kügerl, G. (*with* Schürrer, F.) P^{KLM} expansion of the scattering kernel of the nonlinear Boltzmann equation and its convergence rate. **89m:82036**
Lachowicz, M. On the initial layer and the existence theorem for the nonlinear Boltzmann equation. **89d:82071**
— *see also* **Bellomo, N., 89h:82016**
Longo, E. (*with* Monaco, R.; Platkowski, T.) Sound and shock wave propagations by the semidiscrete Boltzmann equation. (French summary) **89h:35306**
Lukshin, An. V. (*with* Smirnov, S. N.) A stochastic method for solving the Boltzmann equation. (Russian) **89i:82038**
Maass, Wolfgang Manfred On the construction of Lyapunov functions for a class of evolution equations. **89m:34068**
Majorana, Armando (*with* Branchina, Vincenzo) On the transport coefficients for a relativistic gas of hard spheres. **89i:82039**
Mandal, J. C. (*with* Deshpande, S. M.) Higher order accurate kinetic flux vector splitting method for Euler equations. (*see* **89j:35007**)
— *see also* **Deshpande, S. M., 89j:76011**
Matsumura, Akitaka Asymptotics toward rarefaction wave of solutions of the Broadwell model of a discrete velocity gas. **89h:35044**
van der Mee, C. V. M. *see* **Greenberg, William; et al., 89e:42010**
Monaco, R. The physical-mathematical modelling of the state of a two-phase system. **89k:82050**
— *see also* **Longo, E.; et al., 89h:35306**
Nishiyama, Hideko *see* **Shizuta, Yasushi, 89a:82020**
Nonnenmacher, T. F. *see* **Rupp, D.; et al., 89h:82023**
Orlovskiĭ, D. G. *see* **Prilepko, A. I., 89g:82043**
Paszkiewicz, T. The continued fraction representation of the evolution matrix for the Lorentz gas with planar symmetry in **k**-space. **89g:82041**
— *see also* **Jasiukiewicz, Cz., 89g:82042**
Perthame, Benoît *see* **Golse, François; et al., 89h:82018**
Pettersson, Rolf On solutions and higher moments for the linear Boltzmann equation with infinite-range forces. **89k:82052**
Platkowski, T. *see* **Longo, E.; et al., 89h:35306**
Polewczak, Jacek Classical solution of the nonlinear Boltzmann equation in all $\mathbf{R}^3$: asymptotic behavior of solutions. **89h:82021**
Prilepko, A. I. (*with* Orlovskiĭ, D. G.) Some inverse problems of kinetic gas theory for states that are close to equilibrium states. **89g:82043**
Protopopescu, V. *see* **Frosali, G., 89d:47084**
Pulvirenti, Mario Global validity of the Boltzmann equation for a three-dimensional rare gas in vacuum. **89b:82052**
— *see also* **Illner, Reinhard, 89b:82051**
Rogazinskiĭ, S. V. ★ Теория метода прямого статистического моделирования для решения уравнения Больцмана (метод Берда). (Russian) [Theory of the direct statistical modeling method for solving the Boltzmann equation (the Bird method)] **89j:82042**
Rupp, D. (*with* Dukek, G.; Nonnenmacher, T. F.) Particle transport in a host medium with an external source: exact solutions for a nonlinear homogeneous Boltzmann equation. (German summary) **89h:82023**
Sadovnikov, B. I. *see* **Inozemtseva, N. G., 89c:82033**
Sakabekov, A. On the existence of a solution of a stationary system of Boltzmann moment equations in the first approximation. (Russian. Kazakh summary) **89m:82038**
Schürrer, F. *see* **Kügerl, G., 89m:82036**
Shinbrot, Marvin *see* **Cercignani, Carlo; et al., 89c:82031** *and* **89d:82068**
Shizuta, Yasushi (*with* Nishiyama, Hideko) Initial value problem for Kac's model of the Boltzmann equation. **89a:82020**
Smirnov, S. N. *see* **Lukshin, An. V., 89i:82038**
Sulem, C. *see* **Golse, François; et al., 89h:82018**
Toscani, Giuseppe H-theorem and asymptotic trend of the solution for a rarefied gas in the vacuum. **89b:82053**
Triolo, L. *see* **Ianiro, N., 89h:82020**
Uchiyama, Kôhei On derivation of the Boltzmann equation from a deterministic motion of many particles. **89g:82044**
— On the Boltzmann-Grad limit for the Broadwell model of the Boltzmann equation. **89k:82054**
Voronina, V. A. A method for constructing the solution of a system of Boltzmann equations for reacting gases. (Russian) **89c:65137**
— A method for constructing the solution of a spatially homogeneous Boltzmann equation for a gas mixture. (Russian) **89g:82046**
Waluś, Włodzimierz *see* **Greenberg, William; et al., 89e:42010**
Wenzel, Lothar The linearized Boltzmann equation with reflecting boundary conditions. I. The space of continuous functions. **89h:82024**
— The linear Boltzmann equation with time dependent operators in a space of distributions. **89j:82044**

76Q05 Hydrodynamic sound, acoustics

Abdullaev, S. S. (*with* Zaslavskiĭ, G. M.) Dynamics and transverse drift of rays in moving inhomogeneous media. **89c:76087**
Abraham, P. B. Wave propagation in media with time-dependent spatial inhomogeneities. **89f:76067**
Abrahams, I. D. Scattering of sound by a semi-infinite elastic plate with a soft backing; a matrix Wiener-Hopf problem. **89m:76056**
— Acoustic scattering by a finite nonlinear elastic plate. I. Primary, secondary and combination resonances. **89a:76045**
Baggeroer, A. B. (*with* Kuperman, W. A.; Schmidt, Henrik) Performance bounds on array processing for source localization using full wave modeling of signal and noise fields. **89b:76018**
Bamberger, A. (*with* Starling, Felipe) Integro-differential formulation and boundary element method resolution of an acoustic scattering problem. **89j:76073**
— (*with* Joly, Patrick; Kern, Michel; Nicoletis, L.; Quiblier, J.) Low frequency propagation of elastic waves in a fluid-filled borehole. (*see* **89g:73001**)
Beĭko, I. V. *see* **Bublik, B. N., 89k:76079**
Birkhoff, Garrett Sound waves in fluids. **89h:76030**
Briggs, G. A. D. *see* **Tew, R. H.; et al., 89i:76085**
Bublik, B. N. (*with* Beĭko, I. V.) Construction of realizable mathematical models and of methods for solving inverse problems in hydro-acoustics. (Russian) **89k:76079**
Chommeloux, L. *see* **Tabbara, W.; et al., 89f:76074**
Colton, David Optimal methods for determining the shape of an obstacle. **89m:76057**
— (*with* Monk, P. B.) The inverse scattering problem for time-harmonic acoustic waves in an inhomogeneous medium. **89i:76080**
Crawford, Frank S. Lowest modes of a bottle. **89f:76068**
Danilov, V. Ya. (*with* Tkalich, E. F.; Fedorchenko, I. S.) Determining source coordinates by the method of wave front inversion in an inhomogeneous waveguide. (Russian) **89m:76058**
Dhanak, M. R. Turbulent boundary layer on a circular cylinder: the low-wavenumber surface pressure spectrum due to a low-Mach-number flow. **89m:76059**
Ding, Yu (*with* Forestier, A.; Ha-Duong, T.) Space-time variational formulation for the Kirchoff integral equation. **89k:76080**
Duchêne, B. *see* **Tabbara, W.; et al., 89f:76074**
Duston, Mark D. (*with* Verma, Ghasi R.; Wood, David H.; Gilbert, Robert P.) Direct generation of normal modes by transmutation theory. **89b:76019**
Farassat, F. (*with* Myers, M. K.) The moving boundary problem for the wave equation: theory and application. **89b:76020**
— (*with* Myers, M. K.) Extension of Kirchhoff's formula to radiation from moving surfaces. **89e:76070**
Fedorchenko, A. T. Equations for the acoustics of a nonstationary subsonic flow. **89k:76081**
Fedorchenko, I. S. *see* **Danilov, V. Ya.; et al., 89m:76058**
Felsen, Leopold B. *see* **Lu, I. T., 89c:76092** *and* **Ishihara, T., 89f:76069**
Forestier, A. *see* **Ding, Yu; et al., 89k:76080**
Gabdullin, R. R. (*with* Shatov, A. K.) Diffraction of acoustic waves by a half-plane that is parallel to the free surface of a compressible stratified fluid. (Russian) **89e:76071**
Gatignol, Ph. *see* **Rousseau, M., 89a:76046**
Gaudefroy, Alain Anti-bruit et cohomologie. (English summary) [Antinoise and cohomology] **89k:76082**
Gilbert, Robert P. Transmutations occurring in ocean acoustics. **89c:76088**
— (*with* Xu, Yong Zhi; Wood, David H.) Construction of approximations to acoustic Green's functions for nonhomogeneous oceans using transmutation. **89i:76081**
— *see also* **Duston, Mark D.; et al., 89b:76019**
Glasko, V. B. (*with* Nyunin, B. N.; Tikhonov, A. N.; Trubetskov, M. K.) The problem of reducing acoustic noise in the interior of a car. (Russian) **89j:76074**
Goldstein, Charles I. Multigrid preconditioners applied to three-dimensional parabolic equation type models. **89b:76021**
Gragg, Robert F. The total reflection of a compact wave group: long-range transmission in a waveguide. **89i:76082**
Ha-Duong, T. Space-time variational formulas and calculations of retarded potential. (*see* **89f:65003**)
— A mathematical analysis of boundary integral equations in the scattering problems of transient waves (invited contribution). **89j:76075**
— *see also* **Ding, Yu; et al., 89k:76080**
Halpern, Laurence (*with* Trefethen, Lloyd N.) Wide-angle one-way wave equations. **89j:76076**
Hariharan, S. I. A model problem for acoustic wave propagation in the atmosphere. **89d:76026**
de Hoop, Adrianus T. Time-domain reciprocity theorems for acoustic wave fields in fluids with relaxation. **89i:76083**
— Acoustic radiation from impulsive sources in a layered fluid. **89h:76031**

owe, M. S. Attenuation and diffraction of bending waves at gaps in fluid loaded plates. (Not in MR)

— Production of sound by turbulent flow over an embedded strut. **89k:76083**

unter, J. K. Transverse diffraction of nonlinear waves and singular rays. **89c:76089**

shihara, T. (*with* Felsen, Leopold B.) Hybrid (ray)-(parabolic equation) analysis of propagation in ocean acoustic guiding environments. **89f:76069**

shimaru, Akira *see* **Jackson, Darrell R.; et al., 89f:76070**

ackson, Darrell R. (*with* Winebrenner, Dale P.; Ishimaru, Akira) Comparison of perturbation theories for rough-surface scattering. **89f:76070**

oachimowicz, N. *see* **Tabbara, W.; et al., 89f:76074**

oly, Patrick *see* **Bamberger, A.; et al.**, (**89g:73001**)

ones, D. S. ★ Acoustic and electromagnetic waves. **89h:76032**

Kern, Michel *see* **Bamberger, A.; et al.**, (**89g:73001**)

Khapalyuk, A. P. *see* **Rudnitskiĭ, A. S., 89j:76078**

Khizhnyak, A. N. *see* **Litvinenko, L. N.; et al., 89i:76084**

Khodzhaniyazov, D. A class of exact solutions of a multidimensional analogue of the equation of sound propagation in a viscous fluid. (Russian) **89e:76072**

Kirsch, Andreas (*with* Kress, Rainer) An optimization method in inverse acoustic scattering (invited contribution). **89h:76033**

Kleinman, R. E. (*with* Martin, Paul Andrew) Single integral equations for scattering by a penetrable obstacle. **89c:76090**

— (*with* Roach, G. F.) Iterative solutions of boundary integral equations in acoustics. **89d:76027**

Kovenskiĭ, S. Yu. (*with* Tikhonravov, A. V.) Synthesis of absorbing layered media. (Russian) **89f:76071**

Kress, Rainer *see* **Kirsch, Andreas, 89h:76033**

Kuperman, W. A. *see* **Baggeroer, A. B.; et al., 89b:76018**

Lawrie, J. B. Scattering of sound by a heavily loaded finite cylindrical elastic shell. **89j:76077**

Lee, Ding *see* **Saint Mary, Donald F., 89c:76093** *and* **Saad, Y., 89d:76028**

Lenoir, Marc André (*with* Vullierme-Ledard, M.) Numerical computation of scattering frequencies. **89k:76084**

Leppington, F. G. The radiation of sound by a moving sphere. **89e:76073**

— The transmission of sound through anisotropic rectangular plates. **89c:76091**

Lesselier, D. *see* **Tabbara, W.; et al., 89f:76074**

Litvinenko, L. N. (*with* Prosvirnin, S. L.; Khizhnyak, A. N.) Diffraction of a plane acoustic wave by a lattice of circular disks. (Russian. English summary) **89i:76084**

Lu, I. T. (*with* Felsen, Leopold B.) Range-dependent canonical solutions for shallow ocean acoustics. **89c:76092**

Mann, J. Adin, III (*with* Tichy, Jiri; Romano, Anthony J.) Instantaneous and time-averaged energy transfer in acoustic fields. **89f:76072**

Martin, Paul Andrew *see* **Kleinman, R. E., 89c:76090**

Monk, P. B. *see* **Colton, David, 89i:76080**

Myers, M. K. *see* **Farassat, F., 89b:76020** *and* **89e:76070**

Nicoletis, L. *see* **Bamberger, A.; et al.**, (**89g:73001**)

Nyunin, B. N. *see* **Glasko, V. B.; et al., 89j:76074**

Ockendon, J. R. *see* **Tew, R. H.; et al., 89i:76085**

Parsons, Alan T. Maximum directivity proof for three-dimensional arrays. **89f:76073**

Pichot, Ch. *see* **Tabbara, W.; et al., 89f:76074**

Pierce, Allan D. Variational methods to improve computational algorithms for acoustic radiation and scattering. **89b:76022**

Prosvirnin, S. L. *see* **Litvinenko, L. N.; et al., 89i:76084**

Quiblier, J. *see* **Bamberger, A.; et al.**, (**89g:73001**)

Roach, G. F. *see* **Kleinman, R. E., 89d:76027**

Robertson, J. S. An exact solution to a modified wide-angle parabolic equation. **89k:76085**

Romano, Anthony J. *see* **Mann, J. Adin, III; et al., 89f:76072**

Rousseau, M. (*with* Gatignol, Ph.) Analyse asymptotique des faisceaux ultrasonores et problèmes d'interface. (English summary) [Asymptotic analysis of ultrasonic beams and interface problems] **89a:76046**

Rudnitskiĭ, A. S. (*with* Khapalyuk, A. P.) Exact solution of wave equation in a tetrahedron with impedance boundary conditions. **89j:76078**

Saad, Y. (*with* Lee, Ding) A new algorithm for solving the wide angle wave equation. **89d:76028**

Sacks, Paul E. (*with* Santosa, Fadil) A simple computational scheme for determining the sound speed of an acoustic medium from its surface impulse response. **89a:76047**

Saint Mary, Donald F. (*with* Lee, Ding) Accurate computation of the wide-angle wave equation. **89c:76093**

Santosa, Fadil (*with* Symes, W. W.) High-frequency perturbational analysis of the surface point-source response of a layered fluid. **89e:76074**

— *see also* Sacks, Paul E., **89a:76047**

Schmidt, Henrik *see* **Baggeroer, A. B.; et al., 89b:76018**

Shatov, A. K. *see* **Gabdullin, R. R., 89e:76071**

Skalmierski, Bogdan How mathematics improves the violin. (Polish) (Not in MR)

Starling, Felipe *see* **Bamberger, A., 89j:76073**

Symes, W. W. *see* **Santosa, Fadil, 89e:76074**

Tabbara, W. (*with* Duchêne, B.; Pichot, Ch.; Lesselier, D.; Chommeloux, L.; Joachimowicz, N.) Diffraction tomography: contribution to the analysis of some applications in microwaves and ultrasonics. **89f:76074**

Tew, R. H. (*with* Ockendon, J. R.; Briggs, G. A. D.) Acoustical scattering by a shallow surface-breaking crack in an elastic solid under light fluid loading. **89i:76085**

Tichy, Jiri *see* **Mann, J. Adin, III; et al., 89f:76072**

Tikhonov, A. N. *see* **Glasko, V. B.; et al., 89j:76074**

Tikhonravov, A. V. *see* **Kovenskiĭ, S. Yu., 89f:76071**

Timokha, A. N. Forms of equilibrium of the free surface of a bounded volume of a fluid situated in a high-frequency acoustic field. (Russian) **89g:76039**

Tkalich, E. F. *see* **Danilov, V. Ya.; et al., 89m:76058**

Tolokonnikov, L. A. Diffraction of sound waves by an inhomogeneous elliptic cylinder. (Russian) (*see* **89g:00008**)

Tracey, Emma K. The sound field due to an elliptic cylinder in rectilinear motion. **89c:76094**

Trad, Ahmed Rayonnement d'une surface de révolution dans un champ acoustique harmonique, à toutes les fréquences réelles. Cas des basses fréquences. (English summary) [Sound radiation by a surface of revolution at arbitrary real frequencies. The case of low frequencies] **89j:76079**

Trefethen, Lloyd N. *see* **Halpern, Laurence, 89j:76076**

Trubetskov, M. K. *see* **Glasko, V. B.; et al., 89j:76074**

Varlamov, V. V. The problem of the diffraction of internal waves at the edge of a semi-infinite film. **89c:76095**

— Asymptotic solution of an initial-boundary value problem on the propagation of acoustic waves in a medium with relaxation. **89f:76075**

Verma, Ghasi R. *see* **Duston, Mark D.; et al., 89b:76019**

Vullierme-Ledard, M. *see* **Lenoir, Marc André, 89k:76084**

Walkington, Noel J. Acoustic wave propagation through flows with vorticity. **89h:76034**

Winebrenner, Dale P. *see* **Jackson, Darrell R.; et al., 89f:76070**

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Xu, Yong Zhi *see* **Gilbert, Robert P.; et al., 89i:76081**

Zaslavskiĭ, G. M. *see* **Abdullaev, S. S., 89c:76087**

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Andersson, Lars-Erik On the determination of a function from spherical averages. **89a:44005**

Antes, Heinz ★ Anwendungen der Methode der Randelemente in der Elastodynamik und der Fluiddynamik. (German) [Applications of the method of boundary elements in elastodynamics and in fluid dynamics] **89k:73002**

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Banerjee, Sanjoy *see* **Smereka, P., 89i:76092**

Bugrov, A. G. On the theory of sound propagation in a quasistratified ocean. (Russian) **89h:86003**

Busch-Vishniac, Ilene J. *see* **Paynter, Henry M., 89i:35088**

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Cheney, Margaret (*with* Rose, James H.) Generalization of the Fourier transform: implications for inverse scattering theory. **89d:35036**

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Coste, J. *see* **Peyraud, J., 89b:82146**

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Danilov, V. Ya. (*with* Nakonechnyĭ, A. G.) Problems of the optimization of wave fields in hydroacoustics. (Russian) **89h:93040**

Davidson, Rodney F. Waves below first cutoff in a duct. **89c:73026**

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Erëmin, Yu. A. (*with* Sveshnikov, A. G.) On the existence of equivalent scatterers in inverse problems of diffraction theory. **89d:35037**

Esmersoy, Cengiz *see* **Levy, Bernard C., 89j:73039**

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Gudkov, V. V. On methods for the numerical solution of a transcendental equation with complex coefficients. (Russian) **89h:65078**

Halpern, Laurence *see* **Bamberger, A.; et al., 89h:35225** *and* **89h:35226**

Hariharan, S. I. Nonlinear acoustic wave propagation in atmosphere. **89b:86005**

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Hothersall, D. C. *see* **Chandler-Wilde, S. N.**, (**89c:00032**)

Joly, Patrick *see* **Bamberger, A.; et al., 89h:35225; 89h:35226** *and* **89k:73021**

Kern, Michel *see* **Bamberger, A.; et al., 89k:73021**

Khenkin, G. M. (*with* Novikov, R. G.) A multidimensional inverse problem in quantum and acoustic scattering. **89i:35129**

Kirsch, Andreas (*with* Kress, Rainer; Monk, P. B.; Zinn, A.) Two methods for solving the inverse acoustic scattering problem. **89k:73024**

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Klauder, John R. Global, uniform, asymptotic wave-equation solutions for large wavenumbers. **89f:78019**

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Kohler, Werner E. Reflection from a one-dimensional, totally refracting random multilayer. II. Internal field statistics. **89e:86003**

Krasnopol'skaya, T. S. Vibrations of an infinite plate, in contact with a fluid, that is line-driven by a motor of limited power. (Russian) **89g:73025**

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Kriksin, Yu. A. (*with* Timonov, A. A.) A mathematical model for acoustic tomography in the Kirchhoff approximation. (Russian) **89j:92015**
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Lee, Ding (*with* McDaniel, S. T.) Ocean acoustic propagation by finite difference methods. **89b:65204**
— *see also* **Ames, William F., 89c:76005**
Levy, Bernard C. (*with* Esmersoy, Cengiz) Variable background Born inversion by wavefield backpropagation. **89j:73039**
Maezawa, Seiichiro (*with* Temma, Katsuhiro; Ochiai, Hidenori) Vibration of a bowed string (application of Timoshenko's beam theory and transmission of sound energy through the bridge). **89j:73069**
Maradudin, A. A. Nonlinear surface acoustic waves and their associated surface acoustic solitons. (*see* **89g:73001**)
Martin, Paul Andrew (*with* Dalrymple, Robert A.) Scattering of long waves by cylindrical obstacles and gratings using matched asymptotic expansions. **89c:76035**
— *see also* **Kleinman, R. E., 89f:35053**
Martynyuk, A. A. *see* **Mitropol′skiĭ, Yu. A., 89g:70001**
(Maugin, Gérard A.) *see* **Recent developments in surface acoustic waves, 89g:73001**
McDaniel, S. T. *see* **Lee, Ding, 89b:65204**
Mel′nikova, T. V. A linearized multidimensional inverse problem on the determination of velocity in an equation of acoustics for a sphere. (Russian) **89f:35207**
Mitropol′skiĭ, Yu. A. (*with* Martynyuk, A. A.) Some results and current problems in the theory of periodic motions and in nonlinear mechanics (a survey). **89g:70001**
Monk, P. B. *see* **Kirsch, Andreas; et al., 89k:73024**
Nakonechnyĭ, A. G. *see* **Danilov, V. Ya., 89h:93040**
Nayfeh, Ali Hasan Numerical-perturbation methods in mechanics. **89i:70037**
Novikov, R. G. *see* **Khenkin, G. M., 89i:35129**
Nwoke, Christian *see* **Anyanwu, Donatus U., 89i:35035**
Oberguggenberger, Michael Systèmes hyperboliques à coefficients discontinus: solutions généralisées et une application à l'acoustique linéaire. [Hyperbolic systems with discontinuous coefficients: generalized solutions and an application to linear acoustics] **89h:35189**
Ochiai, Hidenori *see* **Maezawa, Seiichiro; et al., 89j:73069**
Ochs, Robert L., Jr. The limited aperture problem of inverse acoustic scattering: Dirichlet boundary conditions. **89c:35154**
Osipov, A. A. (*with* Shirkovskiĭ, I. A.) Application of the finite element method for calculating acoustic fields in nonuniform gas flows. (Russian) **89f:76011**
(Parker, David F.) *see* **Recent developments in surface acoustic waves, 89g:73001**
Parlitz, U. *see* **Lauterborn, W., 89k:58186**
Paynter, Henry M. (*with* Busch-Vishniac, Ilene J.) Remarks on Riemann's method of characteristics. **89i:35088**
Peyraud, J. (*with* Coste, J.) Wave propagation in a one-dimensional quasiperiodic medium: localization and intermittency. **89b:82146**
Popov, O. N. *see* **Epifanov, O. V.; et al., 89f:73039**
(Rodin, E. Y.) *see* **Lee, Ding, 89b:65204**
Rose, James H. *see* **Cheney, Margaret, 89d:35036**
Shirkovskiĭ, I. A. *see* **Osipov, A. A., 89f:76011**
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Streng, J. H. Calculation of integrals which occur in the analysis of circular stretched membrane sound radiation. **89j:41043**
Sun, Zi Qi On the uniqueness of a multidimensional hyperbolic inverse problem. **89f:35212**
Sveshnikov, A. G. *see* **Erëmin, Yu. A., 89d:35037**
Synge, J. L. An unperiodic concentrated sonic pulse. **89g:83004**
Teixeira, F. S. *see* **Dos Santos, A. F., 89a:45011**
Temma, Katsuhiro *see* **Maezawa, Seiichiro; et al., 89j:73069**
Timonov, A. A. *see* **Kriksin, Yu. A., 89j:92015**
Tracey, Emma K. The initial and ultimate motions of an impulsively started cylinder in a compressible fluid. **89j:76068**
Tsionskiĭ, A. Ya. *see* **Epifanov, O. V.; et al., 89f:73039**
Varlamov, V. V. The Cauchy problem for an equation that describes acoustic waves in a medium with dispersion. (Russian) **89m:35129**
Wall, D. J. N. A uniqueness theorem for the reduced wave equation governing the acoustic wave in a heterogeneous medium. **89g:35029**
Weder, R. Absence of eigenvalues of the acoustic propagator in deformed wave guides. **89i:35040**
Yakhno, V. G. A multidimensional inverse problem in acoustics. (Russian) (*see* **89j:00015**)
Zinn, A. *see* **Kirsch, Andreas; et al., 89k:73024**

Items listed otherwise than by author

Colloquium:
  Recent Developments in Surface Acoustic Waves ★ Recent developments in surface acoustic waves. **89g:73001**
Nottingham ★ Recent developments in surface acoustic waves. **89g:73001**
Recent developments in surface acoustic waves ★ Recent developments in surface acoustic waves. **89g:73001**

76Rxx Diffusion and convection [see also 60J60]

Bradshaw, Peter *see* **Cebeci, Tuncer, 89i:76086a**
Cebeci, Tuncer (*with* Bradshaw, Peter) ★ Physical and computational aspects of convective heat transfer. **89i:76086a**
— ★ Solutions manual and computer programs for *Physical and computational aspects of convective heat transfer.* **89i:76086b**

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Szymczak, William G. An analysis of viscous splitting and adaptivity for steady-state convection-diffusion problems. **89h:76006**

76R05 Forced convection

Bradley, Derek (*with* Missaghi, M.; Chin, S. B.) A Taylor-series approach to numerical accuracy and a third-order scheme for strong convective flows. **89d:76029**
Chin, S. B. *see* **Bradley, Derek; et al., 89d:76029**
Jones, A. S. Eigenvalues and eigenfunctions for general Graetz problems. (Not in MR)
— Quadratic eigenvalue problems. **89g:76040**
Missaghi, M. *see* **Bradley, Derek; et al., 89d:76029**

Items with secondary classifications in 76R05

Kawasaki, Kyozi *see* **Ohta, Takao, 89i:76050**
Ōeda, Kazuo On the initial value problem for the heat convection equation of Boussinesq approximation in a time-dependent domain. **89m:35184**
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76R10 Free convection

Goncharova, O. N. Group classification of equations of free convection. (Russian) **89f:76076**
Roux, Bernard *see* **Wadih, M., 89k:76086**
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Cao, Li *see* **Wu, Da Jin, 89f:80013**
Galitsyn, A. S. (*with* Zhukovskiĭ, A. N.; Karagodov, V. P.) Solution of nonlinear convection problems in a closed volume of a viscous fluid by a projection-difference method. (Russian) **89g:76007**
Karagodov, V. P. *see* **Galitsyn, A. S.; et al., 89g:76007**
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Puri, Pratap *see* **Kythe, P. K., 89h:76046**
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Zhukovskiĭ, A. N. *see* **Galitsyn, A. S.; et al., 89g:76007**

76R50 Diffusion

Bass, Ludvik *see* **Bracken, A. J.; et al., 89c:76098**
Bedeaux, D. *see* **Rubí, J. M., 89j:76080**
Bouchiba, M. Sur l'équation de la corrosion intergranulaire par diffusion de surface. (English summary) [On the equation of intergranular corrosion by surface diffusion] **89c:76097**
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Malyshev, P. V. *see* **Gorunovich, V. V., (89j:82003)**
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Whitaker, Stephen *see* **Bourgeat, Alain; et al., 89m:76060**
Zabolotnyĭ, S. N. *see* **Demchenko, V. F.; et al., (89f:00005)**

Items with secondary classifications in 76R50

Aifantis, Elias *see* **Kuttler, Kenneth, 89i:35118**
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Brenner, Howard *see* **Koch, Donald L.; et al., 89m:76063**
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Paladin, G. *see* **Crisanti, A.; et al., 89b:76014**

Petrova, A. G. *see* **Badratinova, L. G.; et al., 89g:35119**

Pukhnachev, V. V. *see* **Badratinova, L. G.; et al., 89g:35119**

Stashenko, M. A. *see* **Gerasimenko, V. I., 89k:82112**

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Vulpiani, A. *see* **Crisanti, A.; et al., 89b:76014**

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Yuan, Wei *see* **Tang, Tao, 89h:45015**

Zhang, Yi Cheng *see* **Medina, Ernesto; et al., 89m:82027**

76R99 None of the above, but in this section

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Steinle, P. *see* **Morrow, R., 89h:76035**

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76S05 Flows in porous media; filtration; seepage

Atik, Y. A boundary value problem for heat and mass transfer in porous media. **89k:76087**

Ball, R. C. *see* **Blunt, M. J., 89c:76100**

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Garay, B. *see* **Farkas, M.; et al., 89j:76081**

Glushchenko, A. A. *see* **Voloshin, V. S.; et al., 89g:76042**

Herrero, M. A. *see* **Elliott, Charles M.; et al., 89m:76061**

Hughes, Barry D. *see* **Chan, Derek Y. C.; et al., 89h:76036**

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Kosachevskiĭ, L. Ya. *see* **Kosachevskaya, L. L., (89j:00031)**

Kudryavtsev, B. A. *see* **Zobnin, A. I.; et al., 89m:76064**

Lyashko, I. I. (*with* Skopetskiĭ, V. V.; Deĭneka, V. S.) Choice of the iterative parameter for some two-layer iterative processes used in the numerical solution of problems of pressure-free filtration. (Russian) **89e:76077**

Mikelić, A. Stationary incompressible viscous fluid flow through a porous boundary. **89a:76048**

Moulay, M.-S. (*with* Moussaoui, M.-A.) Régularité des solutions de l'équation des milieux poreux en une dimension d'espace. [Regularity of the solutions of the porous medium equation in one space dimension] **89h:76038**

Moussaoui, M.-A. *see* **Moulay, M.-S., 89h:76038**

Mukhidinova, R. N. *see* **Sadykov, M. K., 89c:76101**

Ngô Văn Lu'ọ'c (*with* Ta Hông Quang) A problem of the steady filtration of a system of earth dams with a filtration coefficient of separation-of-variables type. (Russian. English and Georgian summaries) **89a:76049**

Ockendon, J. R. *see* **Elliott, Charles M.; et al., 89m:76061**

Parker, David F. (*with* Fitt, A. D.) Nondiffusive models for pressure-swing adsorption. **89k:76089**

Parton, V. Z. *see* **Zobnin, A. I.; et al., 89m:76064**

Paterson, Lincoln *see* **Chan, Derek Y. C.; et al., 89h:76036**

Patiño, Jorge A fully implicit scheme for multiphase flow in one-dimensional porous media. **89k:76090**

Payne, L. E. (*with* Song, J. C.; Straughan, B.) Double diffusive porous penetrative convection—thawing subsea permafrost. **89k:76091**

Petrina, D. Ya. The process of electrolytes passing through a membrane as a boundary value problem in domains with a fine-grained structure. (Russian) (*see* **89j:82003**)

Prat, Marc *see* **Bonnefont, Jacques, (Not in MR)**

Prusov, I. A. ★ Двумерные краевые задачи фильтрации. (Russian) [Two-dimensional boundary value problems of filtration] **89g:76041**

Raĭchenko, L. M. Fluid inflow through a well with constant bottom pressure in a fissured-porous medium. (Russian) **89h:76039**

Rubinstein, Jacob The point interaction approximation, viscous flow through porous media, and related topics. **89h:76040**

Sadykov, M. K. Construction and investigation of difference schemes for solving a boundary value problem of nonlinear filtration in cracked-porous media. (Russian) **89h:76041**

— (*with* Mukhidinova, R. N.) Investigation of a nonlinear boundary value problem of filtration in a three-layer stratum. (Russian) **89c:76101**

Sheshukov, E. G. *see* **Voloshin, V. S.; et al., 89g:76042**

Shikula, E. N. *see* **Khoroshun, L. P., 89j:76082**

Sirakoff, Christina *see* **Chan, Derek Y. C.; et al., 89h:76036**

Skopetskiĭ, V. V. *see* **Lyashko, I. I.; et al., 89e:76077**

Song, J. C. *see* **Payne, L. E.; et al., 89k:76091**

Sorarrain, O. M. *see* **Darderes, Enrique A.; et al., 89f:76077**

Straughan, B. *see* **Payne, L. E.; et al., 89k:76091**

Szabó, G. *see* **Farkas, M.; et al., 89j:76081**

Szépkuti, L. *see* **Farkas, M.; et al., 89j:76081**

Ta Hông Quang *see* **Ngô Văn Lu'ọ'c, 89a:76049**

V. Nagy, I. *see* **Farkas, M.; et al., 89j:76081**

Voloshin, V. S. (*with* Glushchenko, A. A.; Sheshukov, E. G.) Approximate analytic solution of a nonlinear boundary value problem of filtration theory. (Russian) **89g:76042**

Wolanski, Noemí *see* **Hulshof, Josephus, 89i:76088**

von Wolfersdorf, L. Potential flow past a circular cylinder with permeable surface. (German and Russian summaries) **89h:76042**
Yortsos, Y. C. Stability of a certain class of miscible displacement processes in porous media. (Not in MR)
Yu, Qin (*with* Kaloni, P. N.) A Cartesian-tensor solution of the Brinkman equation. **89e:76078**
Zobnin, A. I. (*with* Kudryavtsev, B. A.; Parton, V. Z.) Linearized equations of motion of a viscous fluid in a porous medium of periodic structure. **89m:76064**

Items with secondary classifications in 76S05

Aganović, I. *see* **Mikelić, A., 89f:35029**
Aharony, Amnon (*with* Oxaal, U.; Murat, M.; Meir, Yigal; Boger, F.; Feder, Jens; Jøssang, T.) Growth and viscous fingers on percolating porous media. (*see* **89j:00034**)
Aifantis, Elias *see* **Unger, D. J., 89j:73093**
Akhmatov, M. M. *see* **Oskolkov, A. P.; et al., 89f:35188**
Angenent, S. B. Analyticity of the interface of the porous media equation after the waiting time. **89f:35103**
Antontsev, S. N. ★ Локализация решений вырождающихся уравнений механики сплошной среды. (Russian) [Localization of solutions of degenerate equations of continuum mechanics] **89h:35259**
Bardi, Martino Asymptotic spherical symmetry of the free boundary in degenerate diffusion equations. **89f:35215**
Batchelor, G. K. A new theory of the instability of a uniform fluidized bed. **89m:76066**
Bermúdez de Castro, Alfredo (*with* Durany, J) Numerical solution of steady-state flow through a porous dam. **89c:76006**
Boger, F. *see* **Aharony, Amnon; et al.**, (**89j:00034**)
Bownds, John M. A formal solution to a classical initial-boundary value problem in groundwater hydraulics. **89j:86002**
— A Green's function for a two-point boundary value problem in groundwater theory. **89a:35172**
Brakhagen, F. *see* **Fogwell, T. W.**, (**89j:35007**)
Brand, P. J. *see* **Haldorsen, H. H.; et al.**, (**89j:76003**)
(Brebbia, Carlos Alberto) *see* **Computational methods in water resources, 89m:76002** *and* **89m:76003**
Brillard, Alain Asymptotic analysis of incompressible and viscous fluid flow through porous media. Brinkman's law via epi-convergence methods. (French summary) **89d:35138**
Broadbridge, P. Integrable forms of the one-dimensional flow equation for unsaturated heterogeneous porous media. **89a:35173**
— *see also* **Rogers, Colin, 89a:35230**
Busse, F. H. On the optimum theory of turbulence. **89e:76052**
Caltagirone, Jean-Paul (*with* Fabrie, Pierre; Combarnous, Michel) De la convection naturelle oscillante en milieu poreux au chaos temporel? (English summary) [From oscillating natural convection in porous media to chaos?] (Not in MR)
Carey, G. F. *see* **MacKinnon, R. J., 89g:76009**
(Celia, M. A.) *see* **Computational methods in water resources, 89m:76002** *and* **89m:76003**
Colli, Pierluigi Some remarks on a problem of percolation in gently sloping beaches. (Italian summary) **89c:35155**
— (*with* Kenmochi, Nobuyuki) Nonlinear semigroup approach to a class of evolution equations arising from percolation in sandbanks. **89h:47103**
Combarnous, Michel *see* **Caltagirone, Jean-Paul; et al.**, (Not in MR)
Comparini, Elena (*with* Ricci, Riccardo) Convergence to the pseudo-steady-state approximation for the unreacted core model. **89a:35226**
Cotsiolis, Athanase *see* **Oskolkov, A. P.; et al., 89f:35188**
Dahlberg, Björn E. J. (*with* Kenig, C. E.) Nonnegative solutions of the initial-Dirichlet problem for generalized porous medium equations in cylinders. **89e:35078**
Degiovanni, Alain (*with* Moyne, Christian; Saint Jean Paulin, Jeannine; Taous, Khalid) Conductivité thermique effective d'un milieu poreux en présence d'évaporation-condensation. (English summary) [Effective thermal conductivity of a porous medium in the presence of evaporation-condensation] **89k:80014**
Deĭneka, V. S. *see* **Skopetskiĭ, V. V.; et al., 89a:65192**
Díaz Díaz, Jesús Ildefonso (*with* Kersner, R.) On the behaviour and cases of nonexistence of the free boundary in a semibounded porous medium. **89h:35351**
van Duijn, C. J. (*with* Zhang, Hong Fei) Regularity properties of a doubly degenerate equation in hydrology. **89f:35116**
Durany, J *see* **Bermúdez de Castro, Alfredo, 89c:76006**
Ebihara, Yukiyoshi On a variational inequality to some nonlinear evolution equations. **89a:49011**
(Edwards, Sam) *see* **Mathematics in oil production, 89j:76003**
Fabrie, Pierre *see* **Caltagirone, Jean-Paul; et al.**, (Not in MR)
Fayers, F. J. An introduction to some of the mathematical and physical problems of modelling oil displacement in porous media. (*see* **89j:76003**)
Feder, Jens ★ Fractals. **89i:76001**
— *see also* **Aharony, Amnon; et al.**, (**89j:00034**)
(Ferrand, L. A.) *see* **Computational methods in water resources, 89m:76002** *and* **89m:76003**
Fogwell, T. W. (*with* Brakhagen, F.) Multigrid methods for the solution of porous media multiphase flow equations. (*see* **89j:35007**)
Forsyth, Peter A. Comparison of the single-phase and two-phase numerical model formulation for saturated-unsaturated groundwater flow. **89f:76078**
Gabbasov, M. B. The problem of nonequilibrium reverse capillary impregnation. (Russian. English summary) **89m:45015**
Gagneux, Gérard (*with* Lefevere, Anne-Marie; Madaune-Tort, Monique) Une approche analytique d'un modèle black oil des écoulements triphasiques compressibles en ingénierie pétrolière. (English summary) [An analytic approach to a black-oil model for three-phase compressible flows in petroleum engineering] **89c:76106**
Gani, J. M. (*with* Todorovic, P.) On the persistent release of particles in a fluid flow. **89b:60233**
Gerasimenko, V. I. (*with* Stashenko, M. A.) Mathematical problems in the description of a system of electrolyte-membrane solutions. (Russian) **89k:82112**
Gilbert, Robert P. (*with* Magnanini, R.) A moving boundary problem associated with flow through a porous medium. **89d:35186**
Gilding, B. H. The occurrence of interfaces in nonlinear diffusion-advection processes. **89f:35104**
Glimm, James (*with* Grove, John; Lindquist, W. Brent; McBryan, Oliver A.; Tryggvason, Grétar) The bifurcation of tracked scalar waves. **89g:76032**
Gogonea, Sorin Sur la détermination des fonctions analytiques par des conditions de raccordement et conditions de type Volterra. [On the determination of analytic functions by joining conditions and conditions of Volterra type] **89a:30033**
Gorunovich, V. V. (*with* Malyshev, P. V.) Solution of a problem on the convective diffusion of electrolytes in the potential field of a membrane. (Russian) (*see* **89j:82003**)
Grauel, A. Fundamentals of surface thermodynamics. **89g:76043**
(Gray, William G.) *see* **Computational methods in water resources, 89m:76002** *and* **89m:76003**
Grishchenko, A. E. (*with* Grishchenko, G. I.; Tretyak, V. P.) A problem of minimizing the cost of the underground part of a hydraulic engineering installation. (Russian) (Not in MR)
Grishchenko, G. I. *see* **Grishchenko, A. E.; et al.**, (Not in MR)
Grove, John *see* **Glimm, James; et al., 89g:76032**
Gutman, Semion (*with* Martin, Robert H., Jr.) Porous medium systems with slow and fast reactions. **89j:35068**
Guyon, Etienne The physics of random matter. (*see* **89j:82001**)
— (*with* Roux, S.; Hansen, Alex) Nonlocal and nonlinear problems in the physics of disordered media. (*see* **89j:82002**)
Haldorsen, H. H. (*with* Brand, P. J.; Macdonald, C. J.) Review of the stochastic nature of reservoirs. (*see* **89j:76003**)
Hansen, Alex *see* **Guyon, Etienne; et al.**, (**89j:82002**)
Hayasida, Kazuya On the regularity properties for solutions of the Cauchy problem for the porous media equation. **89m:35109**
Hoffmann, Karl-Heinz^2 (*with* Sprekels, Jürgen; Visintin, A.) Identification of hysteresis loops. **89i:82116**
Hong, Min Chun Galerkin methods for compressible miscible displacement in porous media. (Chinese. English summary) **89h:65178**
Huang, Shao Yun On the inhomogeneous dam problem. (Chinese) **89i:35132**
Johansen, Thormod (*with* Winther, Ragnar) The solution of the Riemann problem for a hyperbolic system of conservation laws modeling polymer flooding. **89h:35200**
Jøssang, T. *see* **Aharony, Amnon; et al.**, (**89j:00034**)
Kansa, E. J. Numerical simulation of three phase porous flow under shock conditions. (*see* **89d:00007**)
Kenig, C. E. *see* **Dahlberg, Björn E. J., 89e:35078**
Kenmochi, Nobuyuki (*with* Pawłow, Irena) Parabolic-elliptic free boundary problems with time-dependent obstacles. **89d:35187**
— *see also* **Colli, Pierluigi, 89h:47103**
Kersner, R. *see* **Díaz Díaz, Jesús Ildefonso, 89h:35351**
Khoroshun, L. P. On the foundations of the thermomechanics of porous saturated media. **89i:73012**
King, John Robert Approximate solutions to a nonlinear diffusion equation. **89c:76099**
(King, Peter Robert) *see* **Mathematics in oil production, 89j:76003**
Kończak, Zenon Equations of thermomechanics of fluid-saturated porous media with viscoelastic micropolar skeleton. (Russian summary) **89c:73094**
Kulacki, F. A. *see* **Rajen, G., 89c:76019**
Lefevere, Anne-Marie *see* **Gagneux, Gérard; et al., 89c:76106**
Liggett, James A. Free surface flow—exposing the hidden nonlinearity. **89d:65105**
Lindquist, W. Brent *see* **Glimm, James; et al., 89g:76032**
Lovera, Oscar Mario (*with* Santos, Juan Enrique) Numerical methods for a model for wave propagation in composite anisotropic media. (French summary) **89d:73012**
Macdonald, C. J. *see* **Haldorsen, H. H.; et al.**, (**89j:76003**)
MacKinnon, R. J. (*with* Carey, G. F.) Analysis of material interface discontinuities and superconvergent fluxes in finite difference theory. **89g:76009**
Madaune-Tort, Monique *see* **Gagneux, Gérard; et al., 89c:76106**
Magnanini, R. *see* **Gilbert, Robert P., 89d:35186**
Maksimova, N. O. A theorem of Phragmén-Lindelöf type for generalized solutions of quasilinear parabolic equations of nonstationary filtration type. (Russian) **89h:35151**
Malyshev, P. V. *see* **Gorunovich, V. V.**, (**89j:82003**)
(Mandelbrot, B. B.) *see* **Feder, Jens, 89i:76001**
Marinov, M. L. Averaging of an equation of nonsteady filtration. (Russian) **89d:35011**
Martin, Robert H., Jr. *see* **Gutman, Semion, 89j:35068**
McBryan, Oliver A. *see* **Glimm, James; et al., 89g:76032**
Meir, Yigal *see* **Aharony, Amnon; et al.**, (**89j:00034**)
Mikelić, A. (*with* Aganović, I.) Homogenization of stationary flow of miscible fluids in a domain with a grained boundary. **89f:35029**
Moyne, Christian *see* **Degiovanni, Alain; et al., 89k:80014**
Murat, M. *see* **Aharony, Amnon; et al.**, (**89j:00034**)
Musaev, N. D. *see* **Żyong, N. Kh.; et al., 89m:80007**
Nefedov, V. V. Application of the theory of a "thin layer" to the solution of problems of flow around plates. (Russian) **89h:76026**
Nigmatulin, R. I. *see* **Żyong, N. Kh.; et al., 89m:80007**
Nittmann, J. A stochastic model for arborescent and dendritic growth. (*see* **89b:58064**)
Norbury, John (*with* Stuart, A. M.) Parabolic free boundary problems arising in porous medium combustion. **89m:80012**
Oskolkov, A. P. (*with* Akhmatov, M. M.; Cotsiolis, Athanase) The equations of motion of linear viscoelastic fluids and the equations of filtration of fluids with delay. (Russian. English summary) **89f:35188**
Oxaal, U. *see* **Aharony, Amnon; et al.**, (**89j:00034**)
Paolini, M. (*with* Sacchi Landriani, Giovanni; Verdi, Claudio) Finite element approximations of singular parabolic problems. **89j:76023**
Pawłow, Irena *see* **Kenmochi, Nobuyuki, 89d:35187**
(Pinder, G. F.) *see* **Computational methods in water resources, 89m:76002** *and* **89m:76003**
Rajen, G. (*with* Kulacki, F. A.) A boundary element analysis of natural convection in fluids and porous media. **89c:76019**
Ricci, Riccardo *see* **Comparini, Elena, 89a:35226**
Roberts, L. J. *see* **Sorbie, K. S.**, (**89j:76003**)

Rogers, Colin (*with* Broadbridge, P.) On a nonlinear moving boundary problem with heterogeneity: application of a reciprocal transformation. (French summary) **89a:35230**
Roux, S. *see* **Guyon, Etienne; et al., (89j:82002)**
Rybachishin, S. I. *see* **Skopetskiĭ, V. V.; et al., 89a:65192**
Sacchi Landriani, Giovanni *see* **Paolini, M.; et al., 89j:76023**
Sadykov, M. K. A regularized difference scheme for solving a boundary value problem of a nonlinear filtration in a three-layer stratum. (Russian) (*see* **89f:00005**)
Sahimi, Muhammad Hydrodynamic dispersion near the percolation threshold: scaling and probability densities. **89a:82022**
Saint Jean Paulin, Jeannine *see* **Degiovanni, Alain; et al., 89k:80014**
Santos, Juan Enrique *see* **Lovera, Oscar Mario, 89d:73012**
Schaeffer, David G. (*with* Shearer, Michael) Three phase flow in a porous medium and the classification of nonstrictly hyperbolic conservation laws. **89c:35100**
Sen, Asok K. Asymptotic structure of a steady planar reactive infiltration interface. **89e:80016**
Shail, R. (*with* Warrilow, I. M.) The sedimentation of a small particle through a fluid-filled pore of finite length. **89i:76041**
Sharma, K. C. *see* **Sharma, R. C., 89g:76027**
Sharma, R. C. (*with* Sharma, K. C.) Thermal instability of compressible fluids with Hall currents through porous medium. (Turkish summary) **89g:76027**
Shearer, Michael *see* **Schaeffer, David G., 89c:35100**
Skopetskiĭ, V. V. (*with* Deĭneka, V. S.; Rybachishin, S. I.) Numerical solution of a problem of pressureless filtration based on the discretization of a variational inequality. (Russian) **89a:65192**
Socolovsky, E. A. Lagrangian nonoscillatory and FEM schemes for the porous media equation. **89m:65087**
Sorbie, K. S. (*with* Roberts, L. J.) High accuracy solutions for two phase multicomponent flow in porous media. (*see* **89j:76003**)
Sprekels, Jürgen *see* **Hoffmann, Karl-Heinz^{2}; et al., 89i:82116**
Stashenko, M. A. *see* **Gerasimenko, V. I., 89k:82112**
Straughan, B. A nonlinear analysis of convection in a porous vertical slab. **89f:35211**
Stuart, A. M. The mathematics of porous medium combustion. **89h:80013**
— *see also* **Norbury, John, 89m:80012**
Taous, Khalid *see* **Degiovanni, Alain; et al., 89k:80014**
Todorovic, P. *see* **Gani, J. M., 89b:60233**
Tretyak, V. P. *see* **Grishchenko, A. E.; et al., (Not in MR)**
Tryggvason, Grétar *see* **Glimm, James; et al., 89g:76032**
Unger, D. J. (*with* Aifantis, Elias) Completeness of solutions in the double porosity theory. **89j:73093**
Verdi, Claudio *see* **Paolini, M.; et al., 89j:76023**
Virnovskiĭ, G. A. Optimal control of multiphase filtration flow in an oil layer. (Russian) **89f:93029**
Visintin, A. *see* **Hoffmann, Karl-Heinz^{2}; et al., 89i:82116**
Wang, Kang Ning Parameter identification for the double porosity systems in fracture reservoirs. **89i:93034**
Wang, Yao Dong Continuity of the solution to a parabolic equation. (Chinese) **89h:35358**
Warrilow, I. M. *see* **Shail, R., 89i:76041**
Wilkinson, David John Fluid dynamics at pore scale. (*see* **89j:76003**)
Winther, Ragnar *see* **Johansen, Thormod, 89h:35200**
Wu, Su Ming A nonlinear free boundary problem of filtration in an earthen dam. (Chinese. English summary) **89g:35121**
Zhang, Hong Fei *see* **van Duijn, C. J., 89f:35116**
Zyong, N. Kh. (*with* Musaev, N. D.; Nigmatulin, R. I.) Self-similar solutions of the problem of heat and mass transfer in a saturated porous medium with a volume heat source. **89m:80007**

Items listed otherwise than by author

Cambridge ★ Mathematics in oil production. **89j:76003**
Cambridge, MA ★ Computational methods in water resources. Vol. 1. **89m:76002**
— ★ Computational methods in water resources. Vol. 2. **89m:76003**
Computational methods in water resources ★ Computational methods in water resources. Vol. 1. **89m:76002**
— ★ Computational methods in water resources. Vol. 2. **89m:76003**
Conference:
  Computational Methods in Water Resources ★ Computational methods in water resources. Vol. 1. **89m:76002**
  — ★ Computational methods in water resources. Vol. 2. **89m:76003**
  Mathematics in Oil Production ★ Mathematics in oil production. **89j:76003**
Mathematics in oil production ★ Mathematics in oil production. **89j:76003**

76T05 Two-phase and multiphase flows

Acosta, Allan J. *see* **d'Agostino, Luca; et al., 89m:76065**
d'Agostino, Luca (*with* Brennen, Christopher E.; Acosta, Allan J.) Linearized dynamics of two-dimensional bubbly and cavitating flows over slender surfaces. **89m:76065**
— (*with* Brennen, Christopher E.) Linearized dynamics of spherical bubble clouds. (Not in MR)
Antanovskiĭ, L. K. Dynamics of the interphase boundary under the action of capillary forces. Quasistationary plane-parallel motion. **89i:76089**
Banat, M. (*with* Benkirane, R.; Line, A.; Masbernat, L.) Modèle de l'écoulement gaz-liquide stratifié à interface ondulée. [Model of stratified gas-liquid flow with undulatory interface] (*see* **89g:76003d**)
Banerjee, Sanjoy *see* **Smereka, P., 89i:76092**
Batchelor, G. K. A new theory of the instability of a uniform fluidized bed. **89m:76066**
Benkirane, R. *see* **Banat, M.; et al., (89g:76003d)**
Berman, V. S. (*with* Polyanin, A. D.) Mass exchange of a pulsating bubble. (Russian) (Not in MR)
Brennen, Christopher E. *see* **d'Agostino, Luca; et al., 89m:76065** *and* (Not in MR)
Bustos, María Cristina (*with* Concha, Fernando) On the construction of global weak solutions in the Kynch theory of sedimentation. **89i:76090**
Christov, Christo I. Determination of the interaction between the particulate and continuous phase in an emulsion via stochastic functional expansion. (Russian summary) **89c:76102**
— *see also* **Georgiev, Ch. Kh., 89e:76079**
Combescot, R. (*with* Hakim, V.; Dombre, T.; Pomeau, Y.; Pumir, A.) Analytic theory of the Saffman-Taylor fingers. **89c:76103**
Concha, Fernando *see* **Bustos, María Cristina, 89i:76090**
DeGregoria, Anthony J. *see* **Schwartz, Leonard W., 89c:76109**
Dombre, T. *see* **Combescot, R.; et al., 89c:76103**
Domokos, G. (*with* Kövesi-Domokos, S.; Zoltani, Csaba K.) Boltzmann equation approach to two phase flow turbulence. **89m:76067**
Drew, Donald A. Constitutive equations and the entropy inequality for multiphase flows. (*see* **89f:73004**)
El-Hajj, Adnan Atef (*with* El Shehawey, Elsayed F.) A variational formalism for steady flow of dusty fluid problems. I. **89i:76091**
El Shehawey, Elsayed F. *see* **El-Hajj, Adnan Atef, 89i:76091**
Enikeev, I. Kh. (*with* Kuznetsova, O. F.; Polyanskiĭ, V. A.; Shurgal'skiĭ, È. F.) Mathematical modeling of two-phase swirled flows by the modified method of coarse particles. **89c:76104**
Fayers, F. J. An introduction to some of the mathematical and physical problems of modelling oil displacement in porous media. (*see* **89j:76003**)
Felderhof, B. U. (*with* Jones, Robert B.) Convective motion and transfer of force by many-body hydrodynamic interaction. **89c:76105**
Forsyth, Peter A. Comparison of the single-phase and two-phase numerical model formulation for saturated-unsaturated groundwater flow. **89f:76078**
Foulser, R. W. S. Modelling of phase behaviour in chemical flood simulation. (*see* **89j:76003**)
Gagneux, Gérard (*with* Lefevere, Anne-Marie; Madaune-Tort, Monique) Une approche analytique d'un modèle black oil des écoulements triphasiques compressibles en ingénierie pétrolière. (English summary) [An analytic approach to a black-oil model for three-phase compressible flows in petroleum engineering] **89c:76106**
Geigenmüller, U. (*with* Mazur, Peter) Sedimentation of homogeneous suspensions in finite vessels. **89k:76092**
Georgiev, Ch. Kh. (*with* Christov, Christo I.) The Fourier method in $L^2(-\infty,+\infty)$ for an integro-differential equation arising in the theory of surface dilatational viscometry. (Russian. English and Bulgarian summaries) **89e:76079**
Grauel, A. Fundamentals of surface thermodynamics. **89g:76043**
Greenspan, H. P. On the vorticity of a rotating mixture. **89m:76068**
Hakim, V. *see* **Combescot, R.; et al., 89c:76103**
Harper, J. F. The rear stagnation region of a bubble rising steadily in a dilute surfactant solution. **89f:76079**
Hicks, D. *see* **Ransom, V. H., 89f:76081**
Jacobs, F. J. *see* **Schmidt, G. H., 89j:76083**
Jones, Robert B. *see* **Felderhof, B. U., 89c:76105**
Kansa, E. J. Numerical simulation of three phase porous flow under shock conditions. (*see* **89d:00007**)
Kövesi-Domokos, S. *see* **Domokos, G.; et al., 89m:76067**
Kroshilin, A. E. (*with* Kroshilin, V. E.) Analysis of a system of differential equations of the two-velocity flow of a mixture with phase transitions. (Russian) **89c:76107**
Kroshilin, V. E. *see* **Kroshilin, A. E., 89c:76107**
Kulagina, N. A. Modeling of phase transitions in the case of nonisothermal filtration of a compressible fluid. (Russian) **89f:76080**
Kuznetsova, O. F. *see* **Enikeev, I. Kh.; et al., 89c:76104**
Lefevere, Anne-Marie *see* **Gagneux, Gérard; et al., 89c:76106**
Line, A. *see* **Banat, M.; et al., (89g:76003d)**
Madaune-Tort, Monique *see* **Gagneux, Gérard; et al., 89c:76106**
Masbernat, L. *see* **Banat, M.; et al., (89g:76003d)**
Mazur, Peter *see* **Geigenmüller, U., 89k:76092**
Meiron, D. I. On the stability of gas bubbles rising in an inviscid fluid. **89k:76093**
Modica, Luciano Gradient theory of phase transitions with boundary contact energy. (French summary) **89c:76108**
O'Neill, M. E. (*with* Yano, Hideo) The slow rotation of a sphere straddling a free surface with a surfactant layer. (Not in MR)
Polyanin, A. D. *see* **Berman, V. S., (Not in MR)**
Polyanskiĭ, V. A. *see* **Enikeev, I. Kh.; et al., 89c:76104**
Pomeau, Y. *see* **Combescot, R.; et al., 89c:76103**
Pumir, A. *see* **Combescot, R.; et al., 89c:76103**
Ransom, V. H. (*with* Hicks, D.) Hyperbolic two-pressure models for two-phase flow revisited. Correction to: "Hyperbolic two-pressure models for two-phase flow" [J. Comput. Phys. **53** (1984), no. 1, 124–151; MR 85c:76059]. **89f:76081**
Roberts, L. J. *see* **Sorbie, K. S., (89j:76003)**
Schmidt, G. H. (*with* Jacobs, F. J.) Adaptive local grid refinement and multi-grid in numerical reservoir simulation. **89j:76083**
Schwartz, Leonard W. (*with* DeGregoria, Anthony J.) Two-phase flow in Hele-Shaw cells: numerical studies of sweep efficiency in a five-spot pattern. **89c:76109**
Shurgal'skiĭ, È. F. *see* **Enikeev, I. Kh.; et al., 89c:76104**
Smereka, P. (*with* Banerjee, Sanjoy) The dynamics of periodically driven bubble clouds. **89i:76092**
Sorbie, K. S. (*with* Roberts, L. J.) High accuracy solutions for two phase multicomponent flow in porous media. (*see* **89j:76003**)
Tatom, F. B. The Basset term as a semiderivative. **89i:76093**
Ungarish, M. On shear layers in mixture separation in rotating containers with inclined walls. **89k:76094**
Virga, Epifanio G. When bubbles can be formed in a fluid, and when they cannot. (Italian. English summary) **89k:76095**
Yano, Hideo *see* **O'Neill, M. E., (Not in MR)**
Zoltani, Csaba K. *see* **Domokos, G.; et al., 89m:76067**

Items with secondary classifications in 76T05

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Atik, Y. A boundary value problem for heat and mass transfer in porous media. **89k:76087**

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Bhattacharjee, Jayanta K. Hopf bifurcation in a binary liquid: exact upper bound on the frequency. **89c:76059**

Brakhagen, F. *see* **Fogwell, T. W., (89j:35007)**

Brand, P. J. *see* **Haldorsen, H. H.; et al., (89j:76003)**

(Brebbia, Carlos Alberto) *see* **Computational methods in water resources, 89m:76002** *and* **89m:76003**

Brenner, Howard *see* **Falade, Adebowale, 89k:76044**

Capodanno, Pierre Petites oscillations planes de deux liquides pesants non miscibles dans un vase fixe. [Small plane oscillations of two immiscible heavy liquids in a fixed vessel] **89e:76024**

(Celia, M. A.) *see* **Computational methods in water resources, 89m:76002** *and* **89m:76003**

Chan, Derek Y. C. (*with* Hughes, Barry D.; Paterson, Lincoln; Sirakoff, Christina) Simulating flow in porous media. **89h:76036**

Chu, Xiao-Lin *see* **Velarde, Manuel G., 89i:76047**

Chugunov, V. A. *see* **Kornev, K. G., 89k:76088**

Cozma, C. Some properties of three-phase displacement. (Romanian) **89e:76076**

(Edwards, Sam) *see* **Mathematics in oil production, 89j:76003**

Falade, Adebowale (*with* Brenner, Howard) First-order wall curvature effects upon the Stokes resistance of a spherical particle moving in close proximity to a solid wall. **89k:76044**

(Ferrand, L. A.) *see* **Computational methods in water resources, 89m:76002** *and* **89m:76003**

Fogwell, T. W. (*with* Brakhagen, F.) Multigrid methods for the solution of porous media multiphase flow equations. (*see* **89j:35007**)

Fomicheva, T. G. *see* **Kononenko, G. N., 89h:76037**

Fowler, A. C. Generation and creep of magma in the earth. **89k:86014**

Gabbasov, M. B. The problem of nonequilibrium reverse capillary impregnation. (Russian. English summary) **89m:45015**

(Gray, William G.) *see* **Computational methods in water resources, 89m:76002** *and* **89m:76003**

Grinfel'd, M. A. Gravitating bodies with internal surfaces of phase transitions. (Russian) **89j:86010**

Haldorsen, H. H. (*with* Brand, P. J.; Macdonald, C. J.) Review of the stochastic nature of reservoirs. (*see* **89j:76003**)

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Holden, L. *see* **Holden, Helge, (89j:35007)**

Hornung, K. *see* **Schick, P., (89j:35007)**

Hsieh, Din Yu Kelvin-Helmholtz stability and two-phase flow. (*see* **89f:76002**)

Hughes, Barry D. *see* **Chan, Derek Y. C.; et al., 89h:76036**

Khazanov, M. V. A method for the numerical solution of one-dimensional equations of the hydrodynamics of a two-phase gas-liquid mixture. (Russian) **89i:65087**

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Khoroshun, L. P. (*with* Shikula, E. N.) Equations of coupled processes of deformation and filtration in media with quasispheroidal pores. **89j:76082**

(King, Peter Robert) *see* **Mathematics in oil production, 89j:76003**

Knobloch, Edgar *see* **Silber, Mary, 89i:76052**

Knowles, Greg Asymptotic limits in multiphase systems. **89e:35023**

Kononenko, G. N. (*with* Fomicheva, T. G.) A numerical algorithm for solving problems of geochemical hydrodynamics. (Russian) **89h:76037**

Konysbaev, Zh. E. Well-posedness of an initial-boundary value problem for a model system of equations of a multicomponent mixture with nonnegative density. (Russian. Kazakh summary) **89j:35125**

Kornev, K. G. (*with* Chugunov, V. A.) Determination of the equilibrium form of bodies that are formed during the solidification of a filtration flow. (Russian) **89k:76088**

Lukovskiĭ, I. A. (*with* Timokha, A. N.) Nonlinear dynamics of the interface of a liquid and a gas when the gas contains a high-particle acoustic field. Stability of steady-state regimes. (Russian) **89m:76046**

L'vov, V. A. The viscosity tensor of a suspension of solid particles. (Russian. English summary) **89e:76043**

— Averaged description of the motion of a suspension in an approximation of a one-velocity continuum with an orientable substructure. (Russian. English summary) **89i:35119**

Macdonald, C. J. *see* **Haldorsen, H. H.; et al., (89j:76003)**

Mazumder, B. S. *see* **Mukherjee, Amiya, 89i:76087**

Mishra, Ram Babu *see* **Pandey, H. K.; et al., 89e:76086** *and* **Thakur, C., 89i:76098**

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Nyiri, B. Thermodynamical derivation of equations of motion for multicomponent fluids. **89c:80006**

Pandey, H. K. (*with* Thakur, C.; Mishra, Ram Babu) Notes on the geometry of magnetic field lines. **89e:76086**

Paterson, Lincoln *see* **Chan, Derek Y. C.; et al., 89h:76036**

Patiño, Jorge A fully implicit scheme for multiphase flow in one-dimensional porous media. **89k:76090**

(Pinder, G. F.) *see* **Computational methods in water resources, 89m:76002** *and* **89m:76003**

Poots, G. *see* **Baker, P. C.; et al., 89k:76041** *and* **Skelton, P. L. I., 89k:76042**

Rodgers, G. G. *see* **Baker, P. C.; et al., 89k:76041**

Rodrigues, José-Francisco A steady-state Boussinesq-Stefan problem with continuous extraction. **89j:76051**

Schaeffer, David G. (*with* Shearer, Michael) Three phase flow in a porous medium and the classification of nonstrictly hyperbolic conservation laws. **89c:35100**

Schick, P. (*with* Hornung, K.) Nonstationary shock wave generation in droplet vapour mixtures. (*see* **89j:35007**)

Shearer, Michael *see* **Schaeffer, David G., 89c:35100**

Shikula, E. N. *see* **Khoroshun, L. P., 89j:76082**

Shopov, Petr Ĭ. Numerical method for free-surface hydrodynamical problems. **89i:76017**

Silber, Mary (*with* Knobloch, Edgar) Pattern selection in steady binary-fluid convection. **89i:76052**

Sirakoff, Christina *see* **Chan, Derek Y. C.; et al., 89h:76036**

Skelton, P. L. I. (*with* Poots, G.) Approximate predictions of ice accretion on an overhead transmission line which rotates with constant angular velocity. **89k:76042**

Slemrod, M. A limiting "viscosity" approach to the Riemann problem for materials exhibiting change of phase. **89m:35186**

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— *see also* **Pandey, H. K.; et al., 89e:76086**

Timokha, A. N. *see* **Lukovskiĭ, I. A., 89m:76046**

Velarde, Manuel G. (*with* Chu, Xiao-Lin) The harmonic oscillator approach to sustained gravity-capillary (Laplace) waves at liquid interfaces. **89i:76047**

Virga, Epifanio G. Metastable equilibrium of fluids with surface tension. **89k:58075**

Virnovskiĭ, G. A. Optimal control of multiphase filtration flow in an oil layer. (Russian) **89f:93029**

Wilkinson, David John Fluid dynamics at pore scale. (*see* **89j:76003**)

Yoshikawa, Kenichi Oscillatory phenomenon in chemistry development of temporal order in molecular assembly. **89i:92081**

Items listed otherwise than by author

Cambridge ★ Mathematics in oil production. **89j:76003**

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— ★ Computational methods in water resources. Vol. 2. **89m:76003**

Computational methods in water resources ★ Computational methods in water resources. Vol. 1. **89m:76002**

— ★ Computational methods in water resources. Vol. 2. **89m:76003**

Conference:
  Computational Methods in Water Resources ★ Computational methods in water resources. Vol. 1. **89m:76002**
  — ★ Computational methods in water resources. Vol. 2. **89m:76003**
  Mathematics in Oil Production ★ Mathematics in oil production. **89j:76003**

Mathematics in oil production ★ Mathematics in oil production. **89j:76003**

76U05 Rotating fluids

Boudourides, M. A. Stabilization of adiabatic rigid body rotation by dissipation. **89d:76030**

Braga, W. Secondary flows on low aspect ratio rotating cavities. **89e:76080**

Derendyaev, N. V. The Andronov-Hopf bifurcation in the dynamics of a rotor system containing a fluid. **89k:76096**

Meyer-Spasche, R. (*with* Wagner, Matthias) The basic $(n, 2n)$-fold of steady axisymmetric Taylor vortex flows. (*see* **89b:58064**)

Saint-Guily, Bernard Mouvements inertiels libres dans un fluide tournant non homogène. (English summary) [Free inertial motions in a rotating nonhomogeneous fluid] **89j:76084**

Shepherd, Theodore G. Nonergodicity of inviscid two-dimensional flow on a beta-plane and on the surface of a rotating sphere. **89a:76050**

Speziale, Charles G. Second-order closure models for rotating turbulent flows. **89a:76051**

Wagner, Matthias *see* **Meyer-Spasche, R., (89b:58064)**

Items with secondary classifications in 76U05

Akylas, T. R. (*with* Toplosky, N.) Nonlinear stability of rotating pipe flow. (*see* **89f:76002**)

Ali, Mohammed Abdulla *see* **Takhar, H. S.; et al., 89e:76048**

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Bhattacharjee, Jayanta K. (*with* McKane, A. J.) Lorenz model for the rotating Rayleigh-Bénard problem. **89f:76040**

Blennerhassett, P. J. *see* **Kachoyan, B. J., 89k:76048**

Boudourides, M. A. Adiabatic annular shear flows with temperature-dependent viscosity. **89j:76046**

Callebaut, Dirk K. *see* **Khater, A. H.; et al., 89i:76102**

Castro, Rafael (*with* Díaz Reyes, Gilberto) Asymptotic solution of the problem of waves on the surface of a plane layer of stratified liquid with rotation. (Spanish. English summary) **89a:76052**

Congedo, Giuseppe Equilibrium of a rotating fluid mass. (Italian. English summary) **89i:49003**

Constantin, Peter *see* **Barcilon, Victor; et al., 89k:35241**

Datta, Nanigopal (*with* Jana, Rabindra Nath) Flow and heat transfer in an elastico-viscous liquid over an oscillating plate in a rotating frame. (Turkish summary) **89i:76021**

Díaz Reyes, Gilberto *see* **Castro, Rafael, 89a:76052**

Dmitriev, P. B. On the theory of capillary waves on the surface of a rotating fluid. (Russian) **89d:76014**

Domaradzki, J. Andrzej (*with* Orszag, Steven A.) Numerical solutions of the direct interaction approximation equations for anisotropic turbulence. **89c:76070**

El Sheikh, M. G. *see* **Khater, A. H.; et al., 89i:76102**

Filatov, A. N. *see* **Il'in, A. A., 89k:35183**

Garadzhaev, A. Spectral theory of a problem on normal oscillations of an ideal compressible fluid in a rotating rigid container. (Russian) **89g:35096**

Giniatullin, A. I. *see* **Maslennikova, V. N., 89m:35181**

Greenspan, H. P. On the vorticity of a rotating mixture. **89m:76068**

Guillopé, C. (*with* Joseph, Daniel D.; Nguyen, K.; Rosso, F.) Nonlinear stability of rotating flow of two fluids. (French summary) **89a:76037**

Gupta, Indu *see* **Sengar, R. S.; et al., 89f:76048**

Gupta, J. R. (*with* Kaushal, M. B.) Rotatory hydromagnetic double-diffusive convection with viscosity variations. **89j:76048**

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ana, Rabindra Nath *see* **Datta, Nanigopal, 89i:76021**

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Kachoyan, B. J. (*with* Blennerhassett, P. J.) On the finite Dean problem: linear theory. **89k:76048**

Kaushal, M. B. *see* **Gupta, J. R., 89j:76048**

Khater, A. H. (*with* El Sheikh, M. G.; Callebaut, Dirk K.) A class of semi-analytical solutions for a rotating toroidal plasma. **89i:76102**

Kythe, P. K. (*with* Puri, Pratap) Unsteady MHD free-convection flows on a porous plate with time-dependent heating in a rotating medium. **89h:76046**

Maslennikova, V. N. (*with* Giniatullin, A. I.) Spectral properties of operators for systems of the hydrodynamics of a rotating fluid, and the nonuniqueness of the limit amplitude. **89m:35181**

McKane, A. J. *see* **Bhattacharjee, Jayanta K., 89f:76040**

Moroz, I. M. Interacting steady and oscillatory rolls in triple convection. **89f:76043**

Nagata, Masato On wavy instabilities of the Taylor-vortex flow between corotating cylinders. **89c:76058**

Ngo Duy Can Some new problems in the theory of the motion of a body containing a fluid. (Russian. English summary) **89h:76009**

Nguyen, K. *see* **Guillopé, C.; et al., 89a:76037**

Orszag, Steven A. *see* **Domaradzki, J. Andrzej, 89c:76070**

Pletner, Yu. D. On a problem of gravitational-gyroscopic waves caused by the oscillations of a rectilinear segment. (Russian) **89d:76011**

Puri, Pratap *see* **Kythe, P. K., 89h:76046**

Rabinovich, B. I. Equations of the dynamics of a rigid body containing a whirled fluid of small viscosity. (Russian) **89g:76026**

Rosso, F. *see* **Guillopé, C.; et al., 89a:76037**

Saint-Guily, Bernard Mouvements inertiels libres dans un volume fluide en rotation. (English summary) [Free inertial motions in a rotating fluid] **89i:86003**

Sengar, R. S. (*with* Singh, D. B.; Gupta, Indu) Thermal instability of a rotating heterogeneous fluid layer with free boundaries in the presence of a magnetic field. **89f:76048**

Simakov, S. T. Gravitational-gyroscopic waves in a semibounded channel. (Russian) **89a:76054**

Singh, D. B. *see* **Sengar, R. S.; et al., 89f:76048**

Smith, S. H. A note on the Jeffery paradox. **89c:76048**

Soundalgekar, V. M. *see* **Takhar, H. S.; et al., 89e:76048**

Sozou, C. On some wave solutions in a differentially rotating polytropic gas. **89m:76055**

Takhar, H. S. (*with* Ali, Mohammed Abdulla; Soundalgekar, V. M.) Effect of radial temperature gradient on the stability of flow in an annulus with constant heat flux at the inner cylinder: wide-gap problem. **89e:76048**

Thakur, C. The geometry of two-phase magnetofluid flows in a rotating system. **89j:76090**

Titi, E. S. *see* **Barcilon, Victor; et al., 89k:35241**

Toplosky, N. *see* **Akylas, T. R.**, (**89f:76002**)

Ungarish, M. On shear layers in mixture separation in rotating containers with inclined walls. **89k:76094**

76V05 Stratified and reacting fluids

Anyutin, A. P. (*with* Borovikov, V. A.) Evolution of localized disturbances of a stratified fluid with variable Brunt-Väisälä frequency. **89e:76081**

Bezhanov, K. A. Wave motion of a stratified fluid that is generated by the unevenness of the bottom and surface pressure. (Russian) **89b:76024**

Borovikov, V. A. The field of a point source of internal waves in a half-space with variable Brunt-Väisälä frequency. (Russian) **89k:76097**

— *see also* **Anyutin, A. P., 89e:76081**

Castro, Rafael (*with* Díaz Reyes, Gilberto) Asymptotic solution of the problem of waves on the surface of a plane layer of stratified liquid with rotation. (Spanish. English summary) **89a:76052**

Deane, A. E. *see* **Knobloch, Edgar; et al.**, (**89b:58064**)

Díaz Reyes, Gilberto *see* **Castro, Rafael**, **89a:76052**

Gabdullin, R. R. (*with* Shatov, A. K.) Diffraction of internal waves by a half plane that is parallel to the free surface of a fluid. (Russian) **89a:76053**

Gabov, S. A. (*with* Orazov, B. B.; Sveshnikov, A. G.) Nonstationary oscillations of a vertical column of a stratified fluid and their stabilization. **89h:76043**

— A method for the reduction and investigation of equations of the dynamics of a stratified fluid. **89h:76044**

— (*with* Pletner, Yu. D.) On a problem of the oscillations of a plane disk in a stratified fluid. **89k:76098**

— (*with* Tverskoĭ, M. B.) On a problem of the flow of a stratified fluid around obstacles. (Russian) **89c:76110**

Knobloch, Edgar (*with* Deane, A. E.; Toomre, J.) Oscillatory doubly diffusive convection: theory and experiment. (*see* **89b:58064**)

Korobkin, A. A. Linear approximation in a problem of internal waves on the flow of a two-layer fluid. (Russian) **89c:76111**

— Asymptotic analysis of the unsteady problem of waves in a two-layer flow. **89e:76082**

Munro, David H. Analytic solutions for Rayleigh-Taylor growth rates in smooth density gradients. **89j:76085**

Orazov, B. B. *see* **Gabov, S. A.; et al., 89h:76043**

Pletner, Yu. D. *see* **Gabov, S. A., 89k:76098**

Red′ko, S. E. Investigation of problems connected with the control of a viscous stratified fluid. (Russian) **89b:76025**

Shatov, A. K. *see* **Gabdullin, R. R., 89a:76053**

Simakov, S. T. Gravitational-gyroscopic waves in a semibounded channel. (Russian) **89a:76054**

— A problem connected with the oscillations of a compressible stratified fluid. **89m:76069**

Sveshnikov, A. G. *see* **Gabov, S. A.; et al., 89h:76043**

Toomre, J. *see* **Knobloch, Edgar; et al.**, (**89b:58064**)

Tverskoĭ, M. B. *see* **Gabov, S. A., 89c:76110**

Items with secondary classifications in 76V05

Akhmedova, N. G. Existence of solutions of a nonlinear problem of the theory of a stratified heavy fluid. (Russian) **89f:76021**

Baron, Judson R. *see* **Pervaiz, Mehtab M., 89g:76010**

Bezhanov, K. A. (*with* Ter-Krikorov, A. M.) Investigation of a spectral problem of the theory of laminar flows of an ideal incompressible heavy fluid. (Russian) **89d:34045**

Boudourides, M. A. (*with* Charalambakis, Nicolas Ch.) Asymptotic stability of a stratified multicomponent flow with temperature-dependent viscosities. (French summary) **89h:76016**

Charalambakis, Nicolas Ch. *see* **Boudourides, M. A., 89h:76016**

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Fitt, A. D. *see* **Parker, David F., 89k:76089**

Gabdullin, R. R. Diffraction of plane waves in a compressible stratified fluid by a strip of finite width. (Russian) **89d:35038**

Gabov, S. A. On the theory of internal waves in the presence of a free surface. (Russian) **89c:76029**

— (*with* Tverskoĭ, M. B.) A study of linear equations of the dynamics of a compressible stratified fluid. (Russian) **89i:35117**

Gassiev, R. V. *see* **Vabishchevich, P. N., 89k:76009**

Godin, O. A. Reciprocity relations for waves in a compressible fluid. (Russian) **89e:76062**

Grimshaw, R. *see* **Pullin, D. I., 89j:76032**

Haario, H. (*with* Seidman, Thomas I.) Reaction and diffusion at a gas/liquid interface. **89m:80014**

Hooper, A. A note on the energy stability equation for Couette flow of two superposed viscous fluids. (*see* **89c:76004**)

Hussaini, M. Y. *see* **Macaraeg, Michèle G.; et al.**, (**89j:65010**)

Infeld, E. (*with* Rowlands, George) Simple model for the nonlinear evolution of the Rayleigh-Taylor instability. **89c:76065**

Joseph, Daniel D. Two fluids heated from below. **89e:76047**

Kamp, L. P. J. *see* **Miesen, R. H. M.; et al., 89i:76029**

Karpov, V. Ya. A method for calculating Rayleigh-Taylor instability in Euler variables. (Russian) **89j:76018**

Lebedev, D. R. (*with* Radul, A.) A periodic equation of a two-layer fluid: the dressing-down method. (Russian. English summary) **89f:58070**

Linz, S. J. (*with* Lücke, M.) A Galerkin approximation for convection in binary mixtures with realistic concentration boundary conditions. (*see* **89f:76003**)

Lücke, M. *see* **Linz, S. J.**, (**89f:76003**)

Lyashko, S. I. (*with* Red′ko, S. E.) Optimal pulse-point control of the dynamics of a viscous stratified fluid. (Russian) **89b:35158**

Macaraeg, Michèle G. (*with* Streett, Craig L.; Hussaini, M. Y.) A spectral multi-domain technique applied to high-speed chemically reacting flows. (*see* **89j:65010**)

Matsuno, Yoshimasa Dynamical motions of algebraic solitons of a model equation for deep water waves. **89i:76032**

Miesen, R. H. M. (*with* Kamp, L. P. J.; Sluijter, F. W.) On the application of the Boussinesq approximation for nonlinear gravity waves in the atmosphere. **89i:76029**

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Ovsyannikov, L. V. On the theory of nonlinear waves. (Russian) **89e:76022**

Parker, David F. (*with* Fitt, A. D.) Nondiffusive models for pressure-swing adsorption. **89k:76089**

Pervaiz, Mehtab M. (*with* Baron, Judson R.) Temporal and spatial adaptive algorithm for reacting flows. **89g:76010**

Pletner, Yu. D. On a problem of gravitational-gyroscopic waves caused by the oscillations of a rectilinear segment. (Russian) **89d:76011**

Pullin, D. I. (*with* Grimshaw, R.) Finite-amplitude solitary waves at the interface between two homogeneous fluids. **89j:76032**

Radul, A. *see* **Lebedev, D. R., 89f:58070**

Red′ko, S. E. *see* **Lyashko, S. I., 89b:35158**

Renardy, Michael (*with* Renardy, Yuriko) Bifurcating solutions at the onset of convection in the Bénard problem for two fluids. **89m:76037**

Renardy, Yuriko *see* **Renardy, Michael, 89m:76037**

Rowlands, George *see* **Infeld, E., 89c:76065**

Rychkov, A. D. ★ Математическое моделирование газодинамических процессов в каналах и соплах. (Russian) [Mathematical modeling of gas-dynamic processes in channels and nozzles] **89h:76001**

Samohýl, Ivan ★ Thermodynamics of irreversible processes in fluid mixtures. **89k:80011**

Seidman, Thomas I. *see* **Haario, H., 89m:80014**

Shinn, Judy L. *see* **Yee, H. C., 89k:76010**

Sluijter, F. W. *see* **Miesen, R. H. M.; et al., 89i:76029**

Smith, Ronald Second-order recombination in a parallel shear flow. **89m:80015**

Streett, Craig L. *see* **Macaraeg, Michèle G.; et al.**, (**89j:65010**)

Ter-Krikorov, A. M. *see* **Bezhanov, K. A., 89d:34045**

Tirskiĭ, G. A. Hypersonic flow of a viscous heat-conducting chemically reacting gas around bodies for a broad range of Reynolds numbers. (Russian) **89f:76014**

Tverskoĭ, M. B. *see* **Gabov, S. A., 89i:35117**

Vabishchevich, P. N. (*with* Gassiev, R. V.) Numerical algorithms for forward calculation for the solution of problems of ideal hydrodynamics. (Russian) **89k:76009**

Varlamov, V. V. The problem of the diffraction of internal waves at the edge of a semi-infinite film. **89c:76095**

Voronina, V. A. A method for constructing the solution of a system of Boltzmann equations for reacting gases. (Russian) **89c:65137**

Wilhelmsson, Hans Simultaneous diffusion and reaction processes in plasma dynamics. **89i:82059**

Yee, H. C. (*with* Shinn, Judy L.) Semi-implicit and fully implicit shock-capturing methods for nonequilibrium flows. **89k:76010**

76W05 Magnetohydrodynamics and electrohydrodynamics

Aggarwala, B. D. (*with* Ariel, P. D.) Modified boundary integral method for pressure driven MHD duct flow. **89k:76099**

— *see also* **Sezgin, M.; et al., 89j:76089**

Aly, J. J. *see* **Amari, T., 89j:76086**

Amari, T. (*with* Aly, J. J.) Interaction between a line current and a two-dimensional constant-α force-free field: an analytical model for quiescent prominences. **89j:76086**

Anile, A. M. (*with* Muscato, Orazio) Magnetofluiddynamic simple waves in special relativity. (French summary) **89d:76031**

Ansari, Mannan Ahmad *see* **Mishra, Ram Babu**, (Not in MR)

Ariel, P. D. *see* **Sezgin, M.; et al., 89j:76089** *and* **Aggarwala, B. D., 89k:76099**

Betancourt, Octavio BETAS, a spectral code for three-dimensional magnetohydrodynamic equilibrium and nonlinear stability calculations. **89h:76045**

Beyer, Klaus Gleichgewichtsfiguren magnetischer Flüssigkeiten. (English and Russian summaries) [Equilibrium configurations of magnetic fluids] **89g:76044**

Bouligand, Georges Propriétés des champs univoques conservatifs dérivant d'un potentiel superficiel sur un domaine compact nivelé. (English summary) [Properties of single-valued conservative vector fields derived from a surface potential on a compact level domain] **89c:76112**

Brown, Michael R. *see* **Matthaeus, William H., 89j:76087**

Buti, B. *see* **Kennel, C. F.; et al., 89d:76035**

Chandna, O. P. *see* **Sattar, M. A., 89h:76047**

Craik, A. D. D. A class of exact solutions in viscous incompressible magnetohydrodynamics. (*see* **89f:76002**)

— A class of exact solutions in viscous incompressible magnetohydrodynamics. **89i:76094**

Degtyarev, L. M. (*with* Drozdov, V. V.; Poshekhonov, Yu. Yu.) A three-dimensional problem of magnetohydrodynamic equilibrium: possible scalar formulations. (Russian) **89a:76055**

— (*with* Drozdov, V. V.; Poshekhonov, Yu. Yu.) A discrete model of the three-dimensional magnetohydrodynamic equilibrium of a plasma on arbitrary curvilinear grids. (Russian) **89a:76056**

Doolen, Gary D. *see* **Montgomery, David, 89a:76058**

Drozdov, V. V. *see* **Degtyarev, L. M.; et al., 89a:76055** *and* **89a:76056**

Eriksson, Gõran A new MHD equilibrium describing a pure z-pinch. **89c:76113**

Eriksson, H. G. Stability properties of a toroidal z-pinch in an external magnetic multipole field. **89e:76083**

Fearn, D. R. (*with* Roberts, P. H.; Soward, A. M.) Convection, stability and the dynamo. **89i:76095**

Ferriz-Mas, A. Nonlinear flows along magnetic flux tubes: mathematical structure and exact simple wave solutions. **89i:76096**

Finn, John M. (*with* Ott, Edward) Chaotic flows and fast magnetic dynamos. **89k:76100**

Förste, J. Zur statistischen Theorie der magnetohydrodynamischen Turbulenz. [The statistical theory of magnetohydrodynamic turbulence] **89f:76082**

Fuchs, J. C. (*with* Richter, E. W.) Similarity solutions for the two-dimensional nonstationary ideal MHD equations. **89a:76057**

Goedbloed, J. P. *see* **Kleibergen, R., 89m:76070** *and* **89m:76071**

(Gogosov, V. V.) *see* **Zhelnorovich, V. A.**, (Not in MR)

Golovin, A. M. (*with* Kozhakhmetova, M. T.) Fundamental solution of a nonstationary problem of MHD flow around a body for small Reynolds numbers. (Russian) **89c:76114**

Grosser, H. Magnetic decay modes for a slender torus. **89d:76032**

Gu, Guo Qing A cylindrically symmetric steady state rigorous general solution in electromagnetic fluid mechanics under a radial magnetic field. (Chinese) **89c:76115**

Hada, T. *see* **Kennel, C. F.; et al., 89d:76035**

Hatori, Tadatsugu (*with* Montgomery, David) Transport coefficients for magnetohydrodynamic cellular automata. **89d:76033**

Imai, Hitoshi (*with* Kawarada, Hideo) One-component asymmetric plasmas in a symmetric vessel. **89d:76034**

Ivers, D. J. (*with* James, Ronald William) Antidynamo theorems for nonradial flows. **89c:76116**

James, Ronald William *see* **Ivers, D. J., 89c:76116**

Kako, Takashi Essential spectrum of linearized operator for MHD plasma in cylindrical region. (French summary) **89c:76117**

— Essential spectrum of a linearized operator for MHD plasma in a cylindrical region. (*see* **89g:76004**)

Kawarada, Hideo *see* **Imai, Hitoshi, 89d:76034**

Kennel, C. F. (*with* Buti, B.; Hada, T.; Pellat, R.) Nonlinear, dispersive, elliptically polarized Alfvén waves. **89d:76035**

Kleibergen, R. (*with* Goedbloed, J. P.) A high-beta tokamak equilibrium. **89m:76070**

— (*with* Goedbloed, J. P.) Alfvén wave spectrum of an analytic high-beta tokamak equilibrium. **89m:76071**

Konysbaev, Zh. E. On the well-posedness of an initial-boundary value problem of magnetogasdynamics with degenerating density. (Russian. Kazakh summary) **89d:76036**

Korshiya, T. K. (*with* Lyubimov, B. Ya.) On the construction and convergence of additive models for a class of two-dimensional problems of magnetohydrodynamics. (Russian) (*see* **89j:00031**)

Kozhakhmetova, M. T. *see* **Golovin, A. M., 89c:76114**

Kozono, Hideo On a decay property of weak solutions of the M.H.D. equations in a 3-dimensional exterior domain. (*see* **89g:76004**)

Kratzsch, K. A. (*with* Rebhan, E.) Nonlinear evolution of the $m = n = 1$ kink-mode in a periodic z-pinch. **89c:76118**

Kress, Michael E. Back-averaging: an accelerated iterative method for simulating plasma diffusion. **89c:76119**

Kythe, P. K. (*with* Puri, Pratap) Unsteady MHD free-convection flows on a porous plate with time-dependent heating in a rotating medium. **89h:76046**

Lakhin, V. P. (*with* Mikhaĭlovskiĭ, A. B.; Onishchenko, O. G.) Drift solitons. **89e:76084**

Lyubimov, B. Ya. *see* **Korshiya, T. K.**, (**89j:00031**)

Manganaro, Natale On a hyperbolic model in magnetofluid dynamics with heat conduction. **89k:76101**

Maslov, V. P. Ill-posedness and the vortex coherence of a structure in magnetohydrodynamics. (Russian) **89c:76120**

— (*with* Omel′yanov, G. A.) Interaction of short waves of small amplitude in a weakly dispersed plasma. II. (Russian) **89g:76045**

Mattei, Giulio A reciprocity property for magnetofluiddynamical fields. (Italian. English summary) **89e:76085**

Matthaeus, William H. (*with* Brown, Michael R.) Nearly incompressible magnetohydrodynamics at low Mach number. **89j:76087**

Mikhaĭlovskiĭ, A. B. *see* **Lakhin, V. P.; et al., 89e:76084**

Mishra, Ram Babu (*with* Ansari, Mannan Ahmad) Some properties of transverse magnetogasdynamic flows. (Not in MR)

— (*with* Tripathi, D. D.) On the geometrization and solution of magnetohydrodynamical equations via Lie groups. **89c:76121**

— *see also* **Pandey, H. K.; et al., 89e:76086; Singh, Harihar Prasad; et al., 89g:76047** *and* **Thakur, C., 89i:76098**

Monastyrskiĭ, M. I. (*with* Sasorov, P. V.) Topological invariants in magnetohydrodynamics. **89c:76122**

Montgomery, David (*with* Doolen, Gary D.) Two cellular automata for plasma computations. **89a:76058**

— *see also* **Hatori, Tadatsugu, 89d:76033**

Muscato, Orazio *see* **Anile, A. M., 89d:76031**

Omel′yanov, G. A. *see* **Maslov, V. P., 89g:76045**

Onishchenko, O. G. *see* **Lakhin, V. P.; et al., 89e:76084**

Organ, A. E. (*with* Riley, N.) Magnetohydrodynamic boundary layers in Czochralski crystal growth. (Not in MR)

Ott, Edward *see* **Finn, John M., 89k:76100**

Pandey, H. K. (*with* Thakur, C.; Mishra, Ram Babu) Notes on the geometry of magnetic field lines. **89e:76086**

— *see also* **Singh, Harihar Prasad; et al., 89f:76085**

Pandey, S. K. *see* **Singh, J. B., 89h:76048a** *and* **89h:76048b**

Pellat, R. *see* **Kennel, C. F.; et al., 89d:76035**

Poshekhonov, Yu. Yu. *see* **Degtyarev, L. M.; et al., 89a:76055** *and* **89a:76056**

Puri, Pratap *see* **Kythe, P. K., 89h:76046**

Quasthoff, K. Die Bevorzugung hexagonaler Strukturen bei symmetrischen Oberflächenformen magnetischer Flüssigkeiten. (English and Russian summaries) [The preference for hexagonal structures in symmetric surface forms of magnetic fluids] **89a:76059**

Raĭkov, G. D. The spectrum of a linear magnetohydrodynamic model with translational symmetry. **89m:76072**

— On the asymptotics of the negative eigenvalues for an axisymmetric ideal magnetohydrodynamic model. (French summary) **89f:76083**

Rebhan, E. *see* **Kratzsch, K. A., 89c:76118**

Remorini, Giovanna On the superposability of motions in magnetofluiddynamics. (Italian. English summary) (Not in MR)

Reusch, Michael F. Free boundary skin current magnetohydrodynamic equilibria. **89i:76097**

Richter, E. W. *see* **Fuchs, J. C., 89a:76057**

Riedel, K. S. Flux coordinates, self-consistent equilibria, and variational principle. **89c:76123**

Riley, N. *see* **Organ, A. E.**, (Not in MR)

Roberts, P. H. *see* **Fearn, D. R.; et al., 89i:76095**

Rozovskiĭ, B. L. On the mathematical theory of a hydromagnetic dynamo in a random flow. (Russian) **89a:76060**

Samokhin, V. N. A system of equations of a boundary layer of a conducting pseudoplastic fluid in a magnetic field. (Russian) **89g:76046**

Sasorov, P. V. *see* **Monastyrskiĭ, M. I., 89c:76122**

Sattar, M. A. (*with* Chandna, O. P.) Steady plane MHD flows with constant speed along each streamline. **89h:76047**

Schamel, H. On the stability of localized electrostatic structures. **89e:76087**

Schmidt, Paul Günter On a magnetohydrodynamic problem of Euler type. **89j:76088**

Sezgin, M. Magnetohydrodynamic flow on a half-plane. **89d:76037**

— (*with* Aggarwala, B. D.; Ariel, P. D.) Electrically driven flows in MHD with mixed electromagnetic boundary conditions. (German and Russian summaries) **89j:76089**

Sharma, V. D. Transport of Lipschitz discontinuities along bicharacteristics in radiative magnetogasdynamics. **89f:76084**

Singh, Harihar Prasad (*with* Tripathi, D. D.; Pandey, H. K.) The development of circulation-preserving MHD flows via spherical mapping. **89f:76085**

— (*with* Tripathi, D. D.; Mishra, Ram Babu) Physical study of steady electromagnetofluid-dynamic viscous flows. **89g:76047**

Singh, J. B. (*with* Pandey, S. K.) Self-similar magnetogasdynamic cylindrical shock waves. I. **89h:76048a**

— (*with* Pandey, S. K.) Propagation of magneto-radiative shock waves. II. **89h:76048b**

Singh, Janardan Steady transverse MHD viscous flows. **89a:76061**

Soward, A. M. *see* **Fearn, D. R.; et al., 89i:76095**

Sudan, R. N. Low frequency plasma turbulence. (Russian summary) (*see* **89a:81002**)

Tasso, H. Generalized Hamiltonians, functional integration and statistics of continuous fluids and plasmas. **89a:76062**

Thakur, C. The geometry of two-phase magnetofluid flows in a rotating system. **89j:76090**

— (*with* Mishra, Ram Babu) Geometrization of two-phase magnetofluid flows in a rotating system. **89i:76098**

— *see also* **Pandey, H. K.; et al., 89e:76086**

Tripathi, D. D. *see* **Mishra, Ram Babu, 89c:76121; Singh, Harihar Prasad; et al., 89f:76085** *and* **89g:76047**

Vishik, M. M. The periodic dynamo. (Russian. English summary) **89a:76063**

Woods, L. C. ★ Principles of magnetoplasma dynamics. **89i:76099**

Zhang, Cheng Fu Comments on clumps theory in turbulent plasma. **89e:76088**

Zhelnorovich, V. A. On mathematical models of magnetic fluids. (Not in MR)

Items with secondary classifications in 76W05

Adam, John A. Integral invariants and complex eigenvalue bounds. (Not in MR)

Adzhemyan, L. Ts. (*with* Vasil′ev, A. N.; Gnatich, M.) A turbulent dynamo as the spontaneous breakdown of symmetry. (Russian. English summary) **89d:76017**

Ågren, Olov An analytical solution of the linearized Vlasov equation for nearly rigid displacements. **89m:76073**

Amosov, A. A. (*with* Zlotnik, A. A.) A family of difference schemes for equations of one-dimensional magnetogasdynamics: properties and error estimates "in the large".

89g:65111
Andrews, L. C. *see* **Vajravelu, K.; et al., 89i:76046**
Arnol'd, V. I. The asymptotic Hopf invariant and its applications. **89m:58053**
Azar, Michel (*with* Thompson, W. B.) Magnetic confinement of cosmic clouds. **89g:85002**
Balk, A. M. (*with* Zakharov, V. E.) Stability of weak turbulence: Kolmogorov spectra. **89i:76100**
Bardos, Claude (*with* Sulem, C.; Sulem, P.-L.) Longtime dynamics of a conductive fluid in the presence of a strong magnetic field. **89b:35154**
Berk, H. L. *see* **Stotler, D. P., 89a:76008**
Berniyazov, Zh. E. *see* **Smagulov, Sh., (89j:00015)**
Bittencourt, J. A. ★ Fundamentals of plasma physics. **89i:82054**
Boĭko, A. Ya. Construction of completely conservative difference schemes of magnetohydrodynamics in mixed Euler-Lagrange variables by means of the projection method. **89j:76007**
Boillat, Guy Involutions des systèmes conservatifs. (English summary) [Involutions of conservative systems] **89m:35135**
Brazhnik, P. K. (*with* Davydov, V. A.; Mikhaĭlov, A. S.) A kinematic approach to the description of autowave processes in active media. **89g:80012**
Brenner, Howard *see* **Falade, Adebowale, 89k:76044**
Brio, M. (*with* Wu, Cheng-chin) An upwind differencing scheme for the equations of ideal magnetohydrodynamics. **89c:76009**
— Admissibility conditions for weak solutions of nonstrictly hyperbolic systems. (*see* **89j:35007**)
Caldas, I. L. *see* **Kucinski, M. Y., 89f:78013**
Chen, James Effects of toroidal forces in current loops embedded in a background plasma. (Not in MR)
Chernenko, I. V. *see* **Chernousenko, V. M.; et al., 89h:86004**
Chernikov, Aleksandr Antonovich *see* **Zaslavskiĭ, G. M.; et al., 89k:76030**
Chernousenko, V. M. (*with* Chernenko, I. V.; Chernyshenko, S. V.) The dynamics of two-dimensional vortex motion. **89h:86004**
Chernyshenko, S. V. *see* **Chernousenko, V. M.; et al., 89h:86004**
Davydov, V. A. *see* **Brazhnik, P. K.; et al., 89g:80012**
El-Dabe, Nabile T. M. Electrohydrodynamic stability of two superposed elasticoviscous liquids in plane Couette flow. **89a:76034**
Falade, Adebowale (*with* Brenner, Howard) First-order wall curvature effects upon the Stokes resistance of a spherical particle moving in close proximity to a solid wall. **89k:76044**
Fuchs, J. C. Symmetriegruppen idealer MDH-Gleichungen. [Symmetry groups of ideal MDH equations] **89k:35206**
Gadoev, M. Convergence of the particle method for a three-dimensional system of Vlasov equations. **89f:82050**
Gasilov, V. A. (*with* Krylov, S. F.; Sorokovikova, O. S.; Tkachenko, S. I.) Application of completely conservative difference schemes to the calculation of two-dimensional magnetohydrodynamic flows. (Russian) **89f:65093**
Gire, Camille *see* **Le Mouël, Jean-Louis; et al., 89k:86015**
Gnatich, M. *see* **Adzhemyan, L. Ts.; et al., 89d:76017**
Gruber, Ralf Finite elements in magnetohydrodynamics: ideal linear stability problem. **89b:65264**
Gupta, J. R. (*with* Kaushal, M. B.) Rotatory hydromagnetic double-diffusive convection with viscosity variations. **89j:76048**
Holm, Darryl D. (*with* Kupershmidt, B. A.) Hamiltonian formulation of ferromagnetic hydrodynamics. **89c:58036**
Hu, You Qiu On two-dimensional magnetostatic equilibria and their stability. **89f:76047**
Jault, Dominique *see* **Le Mouël, Jean-Louis; et al., 89k:86015**
Kadomtsev, B. B. ★ Коллективные явления в плазме. (Russian) [Collective phenomena in plasma] **89j:76092**
Kalis, Harijs Edmunds Some difference schemes for solving boundary value problems of hydrodynamics and magnetohydrodynamics in a broad range of variation of parameters. (Russian) **89c:76014**
Kaushal, M. B. *see* **Gupta, J. R., 89j:76048**
Keller, J. B. *see* **Newton, Paul K., 89e:76021**
Kikuchi, Fumio Finite element analysis of a nondifferentiable nonlinear problem related to MHD equilibria. **89a:65189**
Kocheshkov, G. V. Correctness of a mathematical model for a magnetohydrodynamic thermophysical process. (Russian. English summary) **89d:80014**
Krylov, S. F. *see* **Gasilov, V. A.; et al., 89f:65093**
Kucinski, M. Y. (*with* Caldas, I. L.) Toroidal helical fields. **89f:78013**
Kulikovskiĭ, A. G. Strong discontinuities in flows of continua and their structure. (Russian) **89k:76001**
Kupershmidt, B. A. *see* **Holm, Darryl D., 89c:58036**
Le Mouël, Jean-Louis (*with* Jault, Dominique; Gire, Camille) Sur la forme des mouvements lents animant le fluide du noyau terrestre. (English summary) [On the form of the slow flow in the Earth's fluid core] **89k:86015**
Lim, Chee Seng Transient response of the "multiple water-bag" plasma. **89m:82048**
Litvintseva, S. P. (*with* Rodionov, I. D.) Bifurcations of the spectrum in nonselfadjoint boundary spectral problems. (Russian) **89e:58029**
Lortz, D. On the stability of axisymmetric MHD modes. **89k:76055**
Maiellaro, M. Some nonlinear effects on magnetohydrodynamic stability. **89a:76035**
Maslov, V. P. (*with* Omel'yanov, G. A.) Single-phase asymptotics for equations of magnetohydrodynamics for large Reynolds numbers. **89k:35221**
Matsumura, Akitaka *see* **Yanagisawa, Taku, 89m:35204**
Mikhaĭlov, A. S. *see* **Brazhnik, P. K.; et al., 89g:80012**
Mohapatra, Ram Narayan *see* **Vajravelu, K.; et al., 89i:76046**
Molchanov, S. A. (*with* Ruzmaĭkin, A. A.; Sokolov, D. D.) Short-correlated random flow as a fast dynamo. (Russian) **89c:86007**
Muscato, Orazio Relativistic magnetoacoustic simple wave solutions for a Synge gas. (Italian and Russian summaries) **89j:76095**
Nath, Onkar Self-similar flow behind a spherical shock with varying strength in an inhomogeneous medium. **89e:76060**
— Similarity solution of the propagation of spherical shock waves in a magnetogasdynamic self-gravitating system. **89e:76061**
Newton, Paul K. (*with* Keller, J. B.) Stability of plane wave solutions of nonlinear systems. **89e:76021**
Omel'yanov, G. A. *see* **Maslov, V. P., 89k:35221**
Rodionov, I. D. *see* **Litvintseva, S. P., 89e:58029**
Ruzmaĭkin, A. A. *see* **Molchanov, S. A.; et al., 89c:86007**
Sagdeev, R. Z. *see* **Zaslavskiĭ, G. M.; et al., 89k:76030**
Smagulov, Sh. (*with* Berniyazov, Zh. E.) Stable difference schemes for models of magnetogasdynamics. (Russian) (*see* **89j:00015**)
— (*with* Zhanasbaeva, U. B.) Approximate methods for solving a problem of magnetogasdynamics with variable viscosity. (Russian) **89j:76026**
Sokolov, D. D. *see* **Molchanov, S. A.; et al., 89c:86007**
Sorokovikova, O. S. *see* **Gasilov, V. A.; et al., 89f:65093**
Stotler, D. P. (*with* Berk, H. L.) Solution of hot particle ballooning mode integral equation in tokamaks. **89a:76008**
Sulem, C. *see* **Bardos, Claude; et al., 89b:35154**
Sulem, P.-L. *see* **Bardos, Claude; et al., 89b:35154**
Thompson, W. B. *see* **Azar, Michel, 89g:85002**
Tkachenko, S. I. *see* **Gasilov, V. A.; et al., 89f:65093**
Vajravelu, K. (*with* Andrews, L. C.; Mohapatra, Ram Narayan) Exact solutions of the unsteady hydrodynamic and hydromagnetic flows past an infinite plate. **89i:76046**
Vasil'ev, A. N. Quantum field renormalization group in the theory of turbulence and magnetohydrodynamics. (Russian. English summary) (*see* **89a:81002**)
— *see also* **Adzhemyan, L. Ts.; et al., 89d:76017**
Vishik, M. M. Excitation of a magnetic field by the steady flow of a conducting fluid for large magnetic Reynolds numbers. **89f:76049**
Wu, Cheng-chin *see* **Brio, M., 89c:76009**
Yanagisawa, Taku The initial-boundary value problem for the equations of ideal magnetohydrodynamics. **89a:35214**
— (*with* Matsumura, Akitaka) Initial-boundary value problem for the equations of ideal magneto-hydro-dynamics with perfectly conducting wall condition. **89m:35204**
Zajączkowski, W. M. Noncharacteristic mixed problems for ideal incompressible magnetohydrodynamics. (Russian and Polish summaries) **89k:35236**
Zakharov, V. E. *see* **Balk, A. M., 89i:76100**
Zaslavskiĭ, G. M. (*with* Sagdeev, R. Z.; Chernikov, Aleksandr Antonovich) Stochastic nature of streamlines in steady-state flows. **89k:76030**
Zhanasbaeva, U. B. *see* **Smagulov, Sh., 89j:76026**
Zlotnik, A. A. *see* **Amosov, A. A., 89g:65111**

76X05 Ionized gas flow in electromagnetic fields; plasmic flow

Ågren, Olov An analytical solution of the linearized Vlasov equation for nearly rigid displacements. **89m:76073**
Aleksakhin, Yu. I. Relativistic dynamics of space-charge laminar flow: general description and nonlinear wave solutions. **89c:76124**
Balk, A. M. (*with* Zakharov, V. E.) Stability of weak turbulence: Kolmogorov spectra. **89i:76100**
Callebaut, Dirk K. *see* **Khater, A. H.; et al., 89i:76102**
Chandna, O. P. (*with* Toews, H.; Rudraiah, N.) Solutions for steady plane aligned electro-magneto-fluid-dynamics. (Turkish summary) **89a:76064**
Cho, Suwon (*with* Swanson, D. G.) Mode conversion and absorption of lower hybrid waves in inhomogeneous magnetic fields. **89d:76038**
D'yachenko, A. I. (*with* Rubenchik, A. M.; Sagdeev, R. Z.; Shvets, V. F.; Zakharov, V. E.) Computer simulation of the Langmuir collapse of the isolated cavity. **89j:76091**
El Sheikh, M. G. *see* **Khater, A. H.; et al., 89i:76102**
Faber, V. *see* **Miller, Guthrie; et al., 89i:76103**
Gal'burt, V. A. (*with* Ivanov, M. F.; Ryabov, O. A.) A method for calculating nonequilibrium gas dynamic flows taking into account both radiative transfer and ionization. (Russian) **89i:76101**
Ivanov, M. F. *see* **Gal'burt, V. A.; et al., 89i:76101**
Kadomtsev, B. B. ★ Коллективные явления в плазме. (Russian) [Collective phenomena in plasma] **89j:76092**
Kaup, D. J. Cavitons are solitons: an integrable ponderomotive system. **89c:76125**
Khater, A. H. (*with* El Sheikh, M. G.; Callebaut, Dirk K.) A class of semi-analytical solutions for a rotating toroidal plasma. **89i:76102**
Kiessling, Michael Existence and uniqueness of the pressure profile $p(A)$ of a current-carrying quasineutral equilibrium plasma. **89c:76126**
Lewis, H. Ralph *see* **Schwarzmeier, J. L., 89g:76048**
Malomed, B. A. Damping of a soliton in a system of coupled equations for Langmuir and dispersive ion-acoustic waves. **89e:76089**
Martins, A. M. (*with* Mendonça, J. T.) The nonlinear three-wave interaction with a finite spectral width. **89j:76093**
Mattei, Giulio Jeans' gravitational instability in the presence of Hall and ion-slip currents. (Italian. English summary) (Not in MR)
Mendonça, J. T. *see* **Martins, A. M., 89j:76093**
Miller, Guthrie (*with* Faber, V.; White, Andrew B., Jr.) Finding plasma equilibria with magnetic islands. **89i:76103**
Mishra, Ram Babu *see* **Singh, Harihar Prasad, 89a:76065**
Movsesyants, Yu. B. The Cauchy problem for hydrodynamic equations of a collisionless cold plasma. **89k:76102**
Nycander, J. New stationary solutions of the Hasegawa-Mima equation. **89h:76049**
Rubenchik, A. M. *see* **D'yachenko, A. I.; et al., 89j:76091**
Rudraiah, N. *see* **Chandna, O. P.; et al., 89a:76064**
Ryabov, O. A. *see* **Gal'burt, V. A.; et al., 89i:76101**
Sagdeev, R. Z. *see* **D'yachenko, A. I.; et al., 89j:76091**
Schwarzmeier, J. L. (*with* Lewis, H. Ralph) Variational nature of dispersion equations revisited. **89g:76048**
Shvets, V. F. *see* **D'yachenko, A. I.; et al., 89j:76091**

Singh, Harihar Prasad (*with* Mishra, Ram Babu) Some special solutions in steady MFD flows. **89a:76065**
Stenflo, L. A solution of the generalised nonlinear Schrödinger equation. **89e:76090**
Swanson, D. G. *see* **Cho, Suwon, 89d:76038**
Toews, H. *see* **Chandna, O. P.; et al., 89a:76064**
White, Andrew B., Jr. *see* **Miller, Guthrie; et al., 89i:76103**
Zakharov, V. E. *see* **Balk, A. M., 89i:76100** *and* **D′yachenko, A. I.; et al., 89j:76091**

Items with secondary classifications in 76X05

Abe, Yoshihiko *see* **Ichikawa, Yoshi Hiko, 89k:35214**
Added, Stéphane *see* **Added-Pourcin, Hélène, 89h:35273**
Added-Pourcin, Hélène (*with* Added, Stéphane) Equations of Langmuir turbulence and nonlinear Schrödinger equation: smoothness and approximation. **89h:35273**
Aly, J. J. *see* **Amari, T., 89j:76086**
Amari, T. (*with* Aly, J. J.) Interaction between a line current and a two-dimensional constant-α force-free field: an analytical model for quiescent prominences. **89j:76086**
Ambrosetti, Antonio (*with* Turner, R. E. L.) Some discontinuous variational problems. **89c:35052**
Anikanov, V. A. *see* **Zakharov, Alekseĭ Vasilevich, 89e:83094**
Appert, K. (*with* Succi, S.; Vaclavik, J.; Villard, L.) Finite elements applied to plasma waves. **89f:65117**
Bagewadi, C. S. (*with* Prasanna Kumar, K. N.) On the geometry of field lines in plasma flows. **89f:82047**
Bakurov, V. G. The method of the inverse problem for the three-dimensional theory of three-wave resonant interaction. **89m:58086**
Bittencourt, J. A. ★ Fundamentals of plasma physics. **89i:82054**
Brown, Michael R. *see* **Matthaeus, William H., 89j:76087**
Chen, James (*with* Lee, Yee Chun) A quadratic-form analysis of the collisionless tearing mode. **89h:76018**
Chernenko, I. V. *see* **Chernousenko, V. M.; et al., 89g:76022**
Chernousenko, V. M. (*with* Chernenko, I. V.; Yan′kov, V. V.) Two-dimensional vortices in plasma and fluid. **89g:76022**
Chetverushkin, B. N. *see* **Klevtsur, S. V.; et al., 89h:65166**
Dargeĭko, M. M. (*with* Loginov, A. A.; Samoĭlenko, Yu. I.) Control of rapid processes in continuous conducting media. **89k:93146**
Ebel, D. (*with* Shen, M. C.) Linearization principle for a toroidal Hall current plasma with viscosity and resistivity. **89d:35153**
Gavrikov, M. B. (*with* Solov′ëv, L. S.) Linear waves in two-fluid relativistic gas dynamics. (Russian) **89c:76128**
Ichikawa, Yoshi Hiko (*with* Abe, Yoshihiko) A note on Alfvén solitons. **89k:35214**
Infeld, E. Nonlinear evolution of the Kruskal-Schwarzschild instability of a plasma above a vacuum. **89k:76054**
Klevtsur, S. V. (*with* Latyshev, K. S.; Chetverushkin, B. N.) A cyclic variant of the α-β-iterative algorithm. **89h:65166**
Latyshev, K. S. *see* **Klevtsur, S. V.; et al., 89h:65166**
Laurence, Peter (*with* Stredulinsky, Edward) A higher-order regularity result for Grad generalized differential equations. (French summary) **89a:35187**
Lee, Yee Chun *see* **Chen, James, 89h:76018**
Lim, Chee Seng A class of problems of pulsatory radiation from a travelling source distribution. **89d:35165**
Loginov, A. A. *see* **Dargeĭko, M. M.; et al., 89k:93146**
Matsukawa, Michiaki (*with* Watanabe, Shinsuke) N-soliton solution of two-dimensional modified Boussinesq equation. **89k:35222**
Matthaeus, William H. (*with* Brown, Michael R.) Nearly incompressible magnetohydrodynamics at low Mach number. **89j:76087**
Mohapatra, Ram Narayan *see* **Shivamoggi, Bhimsen K., 89f:76025**
Monin, A. S. *see* **Zakharov, V. E.; et al., 89i:76034**
Morrow, R. (*with* Steinle, P.) Implicit flux-corrected transport. **89h:76035**
Piterbarg, L. I. *see* **Zakharov, V. E.; et al., 89i:76034**
Prasanna Kumar, K. N. *see* **Bagewadi, C. S., 89f:82047**
Samoĭlenko, Yu. I. Problem of microcontrol in continuum. **89k:93148**
— *see also* **Dargeĭko, M. M.; et al., 89k:93146**
Schamel, H. On the stability of localized electrostatic structures. **89e:76087**
Schwarz, Günter On electromagnetic fields in the Hamiltonian description of continua. **89f:58025**
Shen, M. C. *see* **Ebel, D., 89d:35153**
Shivamoggi, Bhimsen K. (*with* Mohapatra, Ram Narayan) The number of "effective modes" of the two- and three-dimensional nonlinear Schrödinger equation. **89f:76025**
Solov′ëv, L. S. *see* **Gavrikov, M. B., 89c:76128**
Stefanov, P. D. Uniqueness of the inverse scattering problem for the wave equation with a potential depending on time. **89i:35130**
Steinle, P. *see* **Morrow, R., 89h:76035**
Stredulinsky, Edward *see* **Laurence, Peter, 89a:35187**
Succi, S. *see* **Appert, K.; et al., 89f:65117**
Turner, R. E. L. *see* **Ambrosetti, Antonio, 89c:35052**
Vaclavik, J. *see* **Appert, K.; et al., 89f:65117**
Villard, L. *see* **Appert, K.; et al., 89f:65117**
Watanabe, Shinsuke *see* **Matsukawa, Michiaki, 89k:35222**
Wilhelmsson, Hans Simultaneous diffusion and reaction processes in plasma dynamics. **89i:82059**
Woods, L. C. ★ Principles of magnetoplasma dynamics. **89i:76099**
Yan′kov, V. V. *see* **Chernousenko, V. M.; et al., 89g:76022**
Zakharov, Alekseĭ Vasilevich (*with* Anikanov, V. A.) Electromagnetic and gravitational perturbations in an ultrarelativistic plasma in an isotropic universe. (Russian) **89e:83094**
Zakharov, V. E. (*with* Monin, A. S.; Piterbarg, L. I.) Hamiltonian formalism for the Rossby waves and drift waves in plasma. **89i:76034**

76Y05 Quantum hydrodynamics and relativistic hydrodynamics [see also 83C55, 85A30]

Barilaro, Maria (*with* Giambò, Sebastiano; Pantano, Pietro) Sur la diffraction transversale des ondes non linéaires dans un fluid visqueux relativiste. (English summary) [On the transverse diffraction of nonlinear waves in a relativistic viscous fluid] **89j:76094**
Carter, Brandon (*with* Gaffet, B.) Standard covariant formulation for perfect-fluid dynamics. **89c:76127**
Gaffet, B. *see* **Carter, Brandon, 89c:76127**
Gavrikov, M. B. (*with* Solov′ëv, L. S.) Linear waves in two-fluid relativistic gas dynamics. (Russian) **89c:76128**
Giambò, Sebastiano *see* **Barilaro, Maria; et al., 89j:76094**
Kaneko, Noboru *see* **Morita, Kazuhiko, 89h:76050**
Kupershmidt, B. A. Cylindrically invariant flows in relativistic fluid dynamics. **89f:76086**
Maravall Casesnoves, Darío Hilbert-Lobachevskiĭ spaces. The mass of a relativistic gas. Relativistic waves of matter. (Spanish. English summary) **89b:76026**
Morita, Kazuhiko (*with* Kaneko, Noboru) The modified Lagrangian equations of general-relativistic hydrodynamics for a nonideal fluid. **89h:76050**
Muscato, Orazio Relativistic magnetoacoustic simple wave solutions for a Synge gas. (Italian and Russian summaries) **89j:76095**
Pantano, Pietro *see* **Barilaro, Maria; et al., 89j:76094**
Schweizer, Martin Andreas Relativistic radiative hydrodynamics. **89j:76096**
Solov′ëv, L. S. *see* **Gavrikov, M. B., 89c:76128**

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Aleksakhin, Yu. I. Relativistic dynamics of space-charge laminar flow: general description and nonlinear wave solutions. **89c:76124**
Aly, J. J. Some properties of the solutions of a nonlinear boundary value problem for a force-free field in an infinite region of space. I. Energy estimates. **89f:85003**
Anile, A. M. (*with* Muscato, Orazio) Magnetofluiddynamic simple waves in special relativity. (French summary) **89d:76031**
Boillat, Guy (*with* Strumía, Alberto) Limitation des vitesses d'onde et de choc quand la densité relativiste d'entropie (ou d'énergie) est convexe. (English summary) [Boundedness of wave and shock velocities when the relativistic density of entropy (or energy) is convex] **89h:35205**
Carbonaro, P. Exceptional relativistic gas dynamics. **89d:83046**
Dudyński, Marek (*with* Ekiel-Jeżewska, Maria L.) On the linearized relativistic Boltzmann equation. I. Existence of solutions. **89h:82017**
Ekiel-Jeżewska, Maria L. *see* **Dudyński, Marek, 89h:82017**
Hiscock, William A. (*with* Lindblom, Lee) Stability in dissipative relativistic fluid theories. **89i:83044**
Lindblom, Lee *see* **Hiscock, William A., 89i:83044**
Majorana, Armando Analytical solutions of the Rankine-Hugoniot relations for a relativistic simple gas. (Italian and Russian summaries) **89e:76059**
Marchioro, Carlo (*with* Pagani, Enrico) Nonlinear stability of a spatially symmetric solution of the relativistic Poisson-Vlasov equation. **89h:35308**
Muscato, Orazio Lagrangian formalism in relativistic magnetohydrodynamics. (Italian) **89k:83046**
— *see also* **Anile, A. M., 89d:76031**
Pagani, Enrico *see* **Marchioro, Carlo, 89h:35308**
Peradzyński, Z. Properly posed boundary condition and the existence theorem for superfluid He^4. **89m:76024**
Strumía, Alberto *see* **Boillat, Guy, 89h:35205**
Widom, Allan Quantum hydrodynamic theory of superfluid helium flows around hollow rings with weak links. **89b:81263**

76Zxx Biological fluid mechanics

76Z05 Physiological flows

Pochet, T. *see* **Sahloul, M., (89g:76003d)**
Sahloul, M. (*with* Pochet, T.) Modélisation mathématique et numérique de la circulation artérielle. [Mathematical and numerical modeling of arterial flow] (*see* **89g:76003d**)
Tutty, O. R. Flow in a tube with a small side branch. **89m:76074**

Items with secondary classifications in 76Z05

Bagdoev, A. G. (*with* Movsisyan, L. A.) Nonlinear waves in a cylindrical shell that contains a fluid with admixtures. (Russian. Armenian summary) **89c:73042**
Bajaj, A. K. Nonlinear dynamics of tubes carrying a pulsatile flow. **89h:92006**
Bestman, A. R. Unsteady low Reynolds number flow in a heated tube of slowly varying section. **89k:76043**
Fogelson, Aaron L. (*with* Peskin, Charles S.) A fast numerical method for solving the three-dimensional Stokes equations in the presence of suspended particles. **89h:76004**
Folk, Robert T. *see* **Goldberg, Irwin S., 89f:76037**
Gan, R. Z. (*with* Moodie, T. B.) Broad-spectrum impedance calculations for arterial models. (Not in MR)
Garner, J. B. (*with* Kellogg, R. B.) Existence and uniqueness of solutions in general multisolute renal flow problems. **89k:92017**
Goldberg, Irwin S. (*with* Folk, Robert T.) Solutions for steady and nonsteady entrance flow in a semi-infinite circular tube at very low Reynolds numbers. **89f:76037**
Hilbert, David An efficient Navier-Stokes solver and its application to fluid flow in elastic tubes. **89j:65062**
Jayaraman, G. *see* **Mehrotra, R., 89e:92005**
Kellogg, R. B. *see* **Garner, J. B., 89k:92017**
Mehrotra, R. (*with* Jayaraman, G.) Flow in a stenosed artery. **89e:92005**
Miranda, Guillermo *see* **Power, Henry, 89m:76027**
Misra, J. C. (*with* Sahu, B. K.) Flow through blood vessels under the action of a periodic acceleration field. A mathematical analysis. **89j:92034**

Moodie, T. B. *see* **Sawatzky, R. P., 89e:92017** *and* **Gan, R. Z.**, (Not in MR)
Movsisyan, L. A. *see* **Bagdoev, A. G., 89c:73042**
Peralta H., Raymundo E. A method for the numerical solution of boundary layer problems. I. An application to heart valves. (Spanish) (*see* **89k:00010**)
Peskin, Charles S. *see* **Fogelson, Aaron L., 89h:76004**
Power, Henry (*with* Miranda, Guillermo) Integral equation formulation for the creeping flow of an incompressible viscous fluid between two arbitrarily closed surfaces, and a possible mathematical model for the brain fluid dynamics. **89m:76027**
Sahu, B. K. *see* **Misra, J. C., 89j:92034**
Sawatzky, R. P. (*with* Moodie, T. B.) Aspects of wave propagation in haemodynamics: a survey. **89e:92017**
Sharan, Maithili *see* **Singh, Mahendra Pal; et al.**, (Not in MR)
Singh, Mahendra Pal (*with* Sharan, Maithili; Sud, Indu) The process of gas exchange in systemic circulation in a hyperbaric environment: an analytical approach. (Not in MR)
Sud, Indu *see* **Singh, Mahendra Pal; et al.**, (Not in MR)
Swaters, Gordon E. Resonant three-wave interactions in nonlinear hyper-elastic fluid-filled tubes. **89g:73026**

76Z10 Biopropulsion in water and in air

Items with secondary classifications in 76Z10

Brokaw, Charles J. Bending-wave propagation by microtubules and flagella. **89f:92017**
Farrell, B. E. *see* **Tranquillo, R. T.; et al.**, (**89c:92002**)
Fisher, E. S. *see* **Tranquillo, R. T.; et al.**, (**89c:92002**)
Hill, N. A. *see* **Pedley, T. J.; et al., 89m:92004**
Kessler, J. O. *see* **Pedley, T. J.; et al., 89m:92004**
Lauffenburger, D. A. *see* **Tranquillo, R. T.; et al.**, (**89c:92002**)
Pedley, T. J. (*with* Hill, N. A.; Kessler, J. O.) The growth of bioconvection patterns in a uniform suspension of gyrotactic micro-organisms. **89m:92004**
Tranquillo, R. T. (*with* Fisher, E. S.; Farrell, B. E.; Lauffenburger, D. A.) A stochastic model for chemosensory cell movement: application to neutrophil and macrophage persistence and orientation. (*see* **89c:92002**)

76Z99 None of the above, but in this section

Items with secondary classifications in 76Z99

Nir, Avinoam *see* **Zinemanas, Daniel**, (Not in MR)
Zinemanas, Daniel (*with* Nir, Avinoam) On the viscous deformation of biological cells under anisotropic surface tension. (Not in MR)

78–XX Optics, electromagnetic theory {For quantum optics, see 81K05.}

78–00 Handbooks, dictionaries, and other reference works

Items with secondary classifications in 78–00

Moon, P. (*with* Spencer, Domina Eberle) ★ Field theory handbook. **89i:00026**
Spencer, Domina Eberle *see* **Moon, P., 89i:00026**

78–01 Elementary exposition; textbooks

Items with secondary classifications in 78–01

(Artola, Michel) *see* **Dautray, Robert, 89m:00003a**
(Cessenat, Michel) *see* **Dautray, Robert, 89m:00003a**
(Combes, J. M.) *see* **Dautray, Robert, 89m:00003a**
Dautray, Robert (*with* Lions, J.-L.) ★ Analyse mathématique et calcul numérique pour les sciences et les techniques. Vol. 5. (French) [Mathematical analysis and computing for science and technology. Vol. 5] **89m:00003a**
Jones, D. S. ★ Acoustic and electromagnetic waves. **89h:76032**
Lions, J.-L. *see* **Dautray, Robert, 89m:00003a**
(Scheurer, Bruno) *see* **Dautray, Robert, 89m:00003a**

78–02 Advanced exposition (research surveys, monographs, etc.)

Gilliam, David (*with* Schulenberger, J. R.) ★ The propagation of electromagnetic waves through, along, and over a three-dimensional conducting half space. **89g:78001**
Jones, D. S. ★ Methods in electromagnetic wave propagation. Vol. 1. **89a:78001a**
— ★ Methods in electromagnetic wave propagation. Vol. 2. **89a:78001b**
Kong, Jin Au ★ Electromagnetic wave theory. **89h:78001**
Schulenberger, J. R. *see* **Gilliam, David, 89g:78001**

Items with secondary classifications in 78–02

Ginzburg, V. L. ★ Теоретическая физика и астрофизика. (Russian) [Theoretical physics and astrophysics] **89a:85001**

78–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 78–03

Archibald, Thomas Tension and potential from Ohm to Kirchhoff. **89m:01051**
Buchwald, Jed Z. ★ From Maxwell to microphysics. **89h:01031**
Garrison, James W. Hintikka, Laudan and Newton: an interrogative model of scientific inquiry. (Not in MR)
(Heaviside, Oliver) *see* **Nahin, Paul J., 89f:01073**
Ionescu-Pallas, N. (*with* Sofonea, L.) Bernhard Riemann: a forerunner of classical electrodynamics (an historical epistemological approach). **89k:01034**
(Kirchhoff, G.) *see* **Archibald, Thomas, 89m:01051**
(Martin, Benjamin) *see* **Millburn, John R., 89e:01023a** *and* **89e:01023b**
Millburn, John R. ★ Retailer of the sciences. **89e:01023a**
— ★ Benjamin Martin. **89e:01023b**
Nahin, Paul J. ★ Oliver Heaviside: sage in solitude. **89f:01073**
(Ohm, Georg Simon) *see* **Archibald, Thomas, 89m:01051**
(Riemann, Georg Friedrich Bernhard) *see* **Ionescu-Pallas, N., 89k:01034**
Sofonea, L. *see* **Ionescu-Pallas, N., 89k:01034**
(Turner, G. L'E.) *see* **Millburn, John R., 89e:01023a**

Items listed otherwise than by author

Biography:
Martin, Benjamin *see* **Millburn, John R., 89e:01023a** *and* **89e:01023b**
Riemann, Georg Friedrich Bernhard *see* **Ionescu-Pallas, N., 89k:01034**

78–04 Explicit machine computation and programs (not the theory of computation or programming)

Hemker, P. W. A nonlinear multigrid method for one-dimensional semiconductor device simulation. (*see* **89j:65008**)

Items with secondary classifications in 78–04

Greengard, Leslie ★ The rapid evaluation of potential fields in particle systems. **89k:31008**
Markowich, P. A. (*with* Schmeiser, C.; Selberherr, S.) Numerical methods in semiconductor device simulation. **89h:78014**
Schmeiser, C. *see* **Markowich, P. A.; et al., 89h:78014**
Selberherr, S. *see* **Markowich, P. A.; et al., 89h:78014**

78–06 Proceedings, conferences, etc.

(Gresho, Philip M.) *see* **Numerical methods in laminar and turbulent flow, 89f:78001**
(Neittaanmäki, Pekka) *see* **Proceedings: Minisymposium on Numerical Methods for Semiconductors and Magnets, 89m:78001**
(Taylor, Cedric) *see* **Numerical methods in laminar and turbulent flow, 89f:78001**

Items listed otherwise than by author

Conference:
Numerical Methods in Laminar and Turbulent Flow ★ Numerical methods in laminar and turbulent flow. **89f:78001**
Jyväskylä ★ Proceedings of the Minisymposium on Numerical Methods for Semiconductors and Magnets. **89m:78001**
Montreal, PQ ★ Numerical methods in laminar and turbulent flow. **89f:78001**
Numerical methods in laminar and turbulent flow ★ Numerical methods in laminar and turbulent flow. **89f:78001**
Proceedings:
Minisymposium on Numerical Methods for Semiconductors and Magnets ★ Proceedings of the Minisymposium on Numerical Methods for Semiconductors and Magnets. **89m:78001**
Special issue:
Numerical methods in laminar and turbulent flow ★ Numerical methods in laminar and turbulent flow. **89f:78001**
Symposium:
Numerical Methods for Semiconductors and Magnets ★ Proceedings of the Minisymposium on Numerical Methods for Semiconductors and Magnets. **89m:78001**

78–08 Computational methods

Amosov, B. A. An algorithm for the approximate solution of integral equations in the theory of diffraction. **89j:78001**
Arvas, Ercument *see* **Sarkar, Tapan K.; et al., 89j:78005**
Bell, M. A. *see* **Whealton, J. H.; et al., 89g:78006**
Beregov, A. S. *see* **Kudinov, E. V.**, (Not in MR)
van den Berg, Peter M. (*with* Kleinman, R. E.) The conjugate gradient spectral iterative technique for planar structures. **89j:78002**
Bespalov, A. N. Finite element method for the eigenmode problem of a RF cavity resonator. **89i:78001**
Bloom, Frederick Almost global existence in the plane wave-nonlinear dielectric interaction problem. **89g:78002**
Bossavit, A. Coupling finite elements and boundary elements in eddy-current computations. (*see* **89b:65009**)
— Le calcul des courants de Foucault en trois dimensions en présence de corps magnétiques parfaits à l'aide du code "Trifou": le cas simplement connexe. (English summary) [Computation, with the "Trifou" code, of three-dimensional eddy currents in the presence of perfectly permeable bodies: the simply connected case] **89d:78001**
Brovenko, A. V. A numerical algorithm for calculating the spectral characteristics of a two-dimensional open resonator with inhomogeneous dielectric inclusions. (Russian. English summary) **89c:78001**
Bryant, C. F. *see* **Rikabi, J.; et al., 89f:78003**
Chen, G. L. *see* **Whealton, J. H.; et al., 89g:78006**
Cloud, Michael *see* **Drachman, B.; et al., 89m:78002**
Dmitriev, V. I. (*with* Zakharov, E. V.; Il'inskiĭ, A. S.; Sveshnikov, A. G.) Inverse problems in electrodynamics. **89d:78002**
Drachman, B. (*with* Cloud, Michael; Nyquist, Dennis P.) Accurate evaluation of Sommerfeld integrals using the fast Fourier transform. **89m:78002**

Drumm, M. J. Boundary element method applied to the eddy current problem. **89d:78003**

Ervin, V. J. (*with* Stephan, E. P.) Experimental convergence of boundary element methods for the capacity of the electrified square plate. **89j:78003**

Freeman, E. M. *see* **Rikabi, J.; et al., 89f:78003**

Fukai, Ichiro *see* **Yoshida, Norinobu; et al., 89j:78007**

Furnell, Graham Wave propagation in longitudinally curved waveguides. **89d:78004**

Grafton, Robert B. *see* **Sternberg, Robert L., 89h:78004**

Gürlebeck, Klaus (*with* Sprössig, W.) An application of quaternionic analysis to the solution of time-independent Maxwell equations and of Stokes' equation. **89h:78002**

Hilden, Hugh M. *see* **Horn, Berthold K. P.; et al., 89g:78003**

Hoffman, D. J. *see* **Whealton, J. H.; et al., 89g:78006**

Horn, Berthold K. P. (*with* Hilden, Hugh M.; Negahdaripour, Shahriar) Closed-form solution of absolute orientation using orthonormal matrices. **89g:78003**

Ievlev, I. I. (*with* Popova, L. N.) Numerical determination of the interface of fluid dielectrics in an electrical field. (Russian) **89c:78002**

Il'inskiĭ, A. S. (*with* Kadomtseva, A. F.) The finite element method in a problem of wave propagation in an irregular waveguide (E-polarization). (Russian) **89g:78004**

— *see also* **Dmitriev, V. I.; et al., 89d:78002**

Jaeger, E. F. *see* **Whealton, J. H.; et al., 89g:78006**

Kadomtseva, A. F. *see* **Il'inskiĭ, A. S., 89g:78004**

Karamzin, Yu. N. *see* **Zakharova, I. G.; et al., 89j:78008**

Kashiwa, Tatsuya *see* **Yoshida, Norinobu; et al., 89j:78007**

Kikuchi, Fumio Mixed and penalty formulations for finite element analysis of an eigenvalue problem in electromagnetism. **89g:78005**

Kleinman, R. E. *see* **van den Berg, Peter M., 89j:78002**

Kudinov, E. V. (*with* Beregov, A. S.) Application of the decomposition principle to the construction of mathematical models of spin-wave devices. (Not in MR)

Kukutsu, Naoya *see* **Yoshida, Norinobu; et al., 89j:78007**

Mackay, Andrew J. (*with* McCowen, Andrew) Matrix interpretation of the spectral iteration technique. **89f:78002**

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Samek, D. *see* **Brana, J., 89k:78003**
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Yang, Kuo-Ho *see* **Kobe, Donald H., 89h:78005**
Yurtin, I. I. *see* **Sidenko, N. R., 89e:78008**
Zayats, V. M. *see* **Gordienko, V. I.; et al., 89j:78013**

Zhukovskiĭ, M. E. *see* **Vasil'kov, G. D.; et al., 89e:78009**

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78A30 Electro- and magnetostatics

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78A35 Motion of charged particles

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cholz, Hans-Joachim *see* **Jung, Christof, 89f:78016**

en Gupta, N. D. Linear motion under constant force and radiation reaction. (German summary) **89f:78017**

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78A40 Waves and radiation

Adachi, Saburo *see* **Uno, Toru, 89a:78004**

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Kukutsu, Naoya *see* **Yoshida, Norinobu; et al., 89j:78007**

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78A45 Diffraction, scattering [see also 34E20 for WKB methods]

Arnoldus, Henk F. (*with* Jelski, Daniel; George, Thomas F.) Confinement and redistribution of charges and currents on a surface by external fields. **89d:78025**

Athanasiadis, Christodoulos *see* **Kiriaki, Kiriakie, 89b:78012** *and* **89j:78028**

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— *see also* **Kravtsov, Yu. A., 89g:78020**

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Donnelly, R. *see* **Walsh, John, 89d:78035**

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— Electromagnetic scattering by rough conducting circular cylinders. II. Axial corrugation. **89d:78027**

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Fiddy, Michael A. *see* **Wombell, Richard J.; et al., (89g:00020)**

George, Thomas F. *see* **Arnoldus, Henk F.; et al., 89d:78025**

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Kress, Rainer *see* **Colton, David, 89k:78019**

Kuindzhi, V. V. *see* **Begovatov, E. A.; et al., 89f:78021**

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— *see also* **Hurd, R. A., 89i:78011**

Mohammadian, Alireza H. Time-dependent dyadic Green's functions for rectangular and circular waveguides. **89d:78028**

Monzon, J. Cesar Excitation of surface waves on a unidirectionally conducting screen by an arbitrary phased line source parallel to it. **89d:78029**

Muth, Lorant A. Displacement errors in antenna near-field measurements and their effect on the far field. **89d:78030**

Nakajima, Nobuharu Reconstruction of a real function from its Hartley-transform intensity. **89j:78031**

Nédélec, Jean-Claude *see* **Benjelloun-Touimi, Zakia; et al., 89c:78009**

Newman, E. H. The fields of a traveling wave line source in the vicinity of a half-plane. **89c:78014**

Nieto-Vesperinas, M. Reciprocity of the impulse response for scattering from inhomogeneous media and arbitrary dielectric bodies. **89a:78006**

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Nussenzveig, H. M. Uniform approximation in scattering by spheres. **89f:78022**

Ostoja-Starzewski, M. Wavefront propagation in discrete random media via stochastic Huygens' minor principle. **89k:78022**

Pathak, Prabhakar H. *see* **Tiberio, Roberto; et al., 89k:78023**

Pelosi, Giuseppe *see* **Tiberio, Roberto; et al., 89k:78023**

Prosvirnin, S. L. *see* **Kochin, V. N.; et al., 89k:78020**

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Roy Chowdhury, A. (*with* De, Mrityunjoy) On a Riemann-Hilbert approach to degenerate SIT: soliton solutions with time-dependent velocity. **89g:78022**

Saamova, T. S. *see* **Begovatov, E. A.; et al., 89f:78021**

Safronov, S. I. *see* **Zakharov, E. V., 89d:78036**

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Smagin, S. I. *see* **Tsetsokho, V. A.; et al., 89k:78024**

Sologub, V. G. *see* **Boltonosov, A. I., 89e:78012**

Speck, Frank-Olme Sommerfeld diffraction problems with first and second kind boundary conditions. **89m:78012**

— *see also* **Meister, Erhard, 89g:78021**

Starling, Felipe *see* **Benjelloun-Touimi, Zakia; et al., 89c:78009**

Strezhnev, S. A. *see* **Begovatov, E. A.; et al., 89f:78021**

Svishchev, Yu. V. (*with* Tuchkin, Yu. A.) A vector problem of the diffraction of an electromagnetic wave by two spherical segments. (Russian. English summary) **89d:78032**

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Trubetskov, M. K. *see* **Bykov, A. A., 89k:78018**

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Tuchkin, Yu. A. Wave scattering by an unclosed cylindrical screen of arbitrary profile with the Neumann boundary condition. (Russian) **89d:78033**

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Umashankar, Korada R. Numerical analysis of electromagnetic wave scattering and interaction based on frequency-domain integral equation and method of moments techniques. **89j:78032**

Uzgören, Gökhan *see* **Büyükaksoy, Alinur, 89c:78010**

(Varadan, Vasundara V.) *see* **Low and high frequency asymptotics, 89i:78012a**

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Zernov, N. N. Solution of the Sommerfeld problem with random impedance of the boundary surface. (Russian) **89a:78009**

Items listed otherwise than by author

Handbook:

Acoustic, electromagnetic and elastic wave scattering ★ Low and high frequency asymptotics. **89i:78012a**

Low and high frequency asymptotics ★ Low and high frequency asymptotics. **89i:78012a**

Items with secondary classifications in 78A45

Abdullaev, S. S. (*with* Zaslavskiĭ, G. M.) Dynamics and transverse drift of rays in moving inhomogeneous media. **89c:76087**

Allain, C. (*with* Cloitre, M.) Spatial spectrum of a general family of self-similar arrays. **89k:82086**

Aoyama, Hideaki *see* **Odagaki, T., 89k:82079**

Baker-Jarvis, James *see* **Inguva, Ramarao, 89a:81162**

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van den Berg, Peter M. (*with* Kleinman, R. E.) The conjugate gradient spectral iterative technique for planar structures. **89j:78002**

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Cloitre, M. *see* **Allain, C., 89k:82086**

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Dolveck-Guilpard, B. *see* **Sabatier, Pierre C., 89h:81026**

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Goncharskiĭ, A. V. (*with* Stepanov, A. A.) Computer diagnostics of semiconductor crystals. (Russian) **89h:82035**

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Maa, Hsiao-fei *see* **Wang, Zhen Song, 89h:82026**

Marchenko, V. F. *see* **Volyak, K. I.; et al.**, (Not in MR)

McQuillan, R. T. *see* **Delves, L. M.; et al., 89e:92001**

van der Mee, C. V. M. *see* **Hovenier, J. W., 89d:85006**

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Oliver, C. J. *see* **Delves, L. M.; et al., 89e:92001**

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Popov, M. M. *see* **Zalipaev, V. V., 89a:35060**

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Shestopalov, V. P. *see* **Sirenko, Yu. K., 89a:35058**; **Poedinchuk, A. E.; et al., 89a:35160**; **Sirenko, Yu. K., 89c:73079** *and* **89f:35054**

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Stepanov, A. A. *see* **Goncharskiĭ, A. V., 89h:82035**

Strel′tsov, A. M. *see* **Volyak, K. I.; et al.**, (Not in MR)

Sveshnikov, A. G. *see* **Erēmin, Yu. A., 89d:35037**

Tatarskiĭ, V. I. *see* **Sabel′fel′d, K. K., 89b:65026**

Teixeira, F. S. *see* **Dos Santos, A. F., 89a:45011**

Tikhonravov, A. V. *see* **Kovenskiĭ, S. Yu., 89f:76071**

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Willers, Achim *see* **Wilde, Peter, 89d:35041**

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Zaslavskiĭ, G. M. *see* **Abdullaev, S. S., 89c:76087**

78A50 Antennas, wave-guides

Abdullaev, F. Kh. (*with* Abdumalikov, A. A.) Interaction of solitons in two connected optic waveguides. (Russian) (Not in MR)

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Hamid, M. *see* **LoVetri, J., 89e:78017**

Hewak, Daniel W. *see* **Lit, John W. Y.; et al., 89j:78033**

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Kath, William L. (*with* Kriegsmann, Gregory A.) Optical tunnelling: radiation losses in bent fibre-optic waveguides. **89k:78027**

Kojima, Masaaki^2 *see* **Tanaka, Kazuo, 89d:78038**

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Kriegsmann, Gregory A. *see* **Kath, William L., 89k:78027**

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Molotkov, I. A. *see* **Vakulenko, S. A., 89b:78015**

Šeba, P. *see* **Exner, P., 89e:78015**

Smirnov, Yu. G. *see* **Il′inskiĭ, A. S., 89g:78024**

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Bamberger, A. (*with* Joly, Patrick; Kern, Michel) Mathematical and computational aspects of the determination of elastic surface waves along cylindrical cavities of general cross section. **89k:73021**

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Joly, Patrick *see* **Bamberger, A.; et al., 89k:73021**

Kern, Michel *see* **Bamberger, A.; et al., 89k:73021**

Kugler, M. (*with* Shtrikman, S.) Berry's phase, locally inertial frames, and classical analogues. **89c:81055**

Martynyuk, A. A. *see* **Mitropol′skiĭ, Yu. A., 89g:70001**

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— Absence of eigenvalues of the acoustic propagator in deformed wave guides. **89i:35040**

Werner, Peter Resonanzphänomene in akustischen und elektromagnetischen Wellenleitern. [Resonance phenomena in acoustic and electromagnetic waveguides] **89c:35092**

78A55 Technical applications

Belyanin, M. P. On the asymptotics in a one-dimensional model of some semiconductor devices. **89d:78039**
Cherednik, I. V. *see* **Vysloukh, V. A., 89h:78015**
Füzessy, Z. *see* **Gyimesi, F., 89k:78028**
Gröger, K. Initial-boundary value problems from semiconductor device theory. (German and Russian summaries) **89f:78024**
Gyimesi, F. (*with* Füzessy, Z.) Difference holographic interferometry: theory. **89k:78028**
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Levine, A. M. *see* **Kofman, A. G.; et al., 89d:78040**
Levine, Harold Energy loss and storage in RC-transmission lines. **89g:78025**
Ma, Ke Jian A new type of Berry phase factor. (Chinese. English summary) **89g:78026**
Markowich, P. A. (*with* Schmeiser, C.; Selberherr, S.) Numerical methods in semiconductor device simulation. **89h:78014**
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Prior, Yehiam *see* **Kofman, A. G.; et al., 89d:78040**
Schmeiser, C. *see* **Markowich, P. A.; et al., 89h:78014**
Selberherr, S. *see* **Markowich, P. A.; et al., 89h:78014**
Ulitko, A. F. *see* **Nezabytovskaya, G. A., 89g:78027**
Vysloukh, V. A. (*with* Cherednik, I. V.) Modeling of the restoration of the envelope of supershort optical impulses from the characteristics of their nonlinear interaction with single-soliton test impulses. **89h:78015**
Zaibel, R. *see* **Kofman, A. G.; et al., 89d:78040**

Items with secondary classifications in 78A55

Barashkov, A. S. Low frequency asymptotic behavior of the solution of a three-dimensional MTS problem. (Russian) **89m:86015**
Caelli, T. M. *see* **Ferraro, Mario, 89j:45001**
Chommeloux, L. *see* **Tabbara, W.; et al., 89f:76074**
Duchêne, B. *see* **Tabbara, W.; et al., 89f:76074**
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Grafton, Robert B. *see* **Sternberg, Robert L., 89h:78004**
Joachimowicz, N. *see* **Tabbara, W.; et al., 89f:76074**
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Lesselier, D. *see* **Tabbara, W.; et al., 89f:76074**
Pichot, Ch. *see* **Tabbara, W.; et al., 89f:76074**
Sabbagh, Harold A. *see* **Sabbagh, L. David**, (**89a:94002**)
Sabbagh, L. David (*with* Sabbagh, Harold A.) Eddy current modeling and signal processing in NDE. (*see* **89a:94002**)
Sternberg, Robert L. (*with* Grafton, Robert B.) On a numerical minimization problem for a new class of nonlinear partial differential equations arising in nonspherical geometrical optics and beamforming lenticular antennas. II. **89h:78004**
Strizhkov, V. A. Well-posedness of Fredholm integral equations of the first kind of potential type for thin conductors. (Russian) **89k:45002**
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78A60 Lasers, masers, optical bistability [see also 81K05]

Altschuler, Martin D. *see* **Censor, Yair; et al.**, (Not in MR)
Broggi, G. *see* **Lugiato, L. A.; et al.**, (**89i:92026**)
Burzlaff, J. The soliton number of optical soliton bound states for two special families of input pulses. **89d:78041**
Censor, Yair (*with* Altschuler, Martin D.; Powlis, William D.) On the use of Cimmino's simultaneous projections method for computing a solution of the inverse problem in radiation therapy treatment planning. (Not in MR)
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Kambulov, V. F. (*with* Kolesov, V. S.; Kolesov, Yu. S.; Ukolov, V. V.) Formulas for self-induced oscillations in a two-level model of a chemical laser with an unstable telescopic resonator. (Russian) **89c:78016**
Kolesov, V. S. *see* **Kambulov, V. F.; et al., 89c:78016**
Kolesov, Yu. S. *see* **Kambulov, V. F.; et al., 89c:78016**
Kotomtseva, L. A. *see* **Grigoryeva, E. V.; et al., 89d:78042**
Kumar, Ajit Soliton propagation in optical fibres. (*see* **89b:00027**)
Lugiato, L. A. (*with* Oldano, C.; Sartirana, L.; Wang, Kai Ge; Narducci, L. M.; Oppo, G. L.; Prati, F.; Broggi, G.) Spatial symmetry breaking in optical systems. (*see* **89i:92026**)
McAvity, David M. *see* **Enns, Richard H.; et al.**, (**89d:00007**)
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Narducci, L. M. *see* **Lugiato, L. A.; et al.**, (**89i:92026**)
Oldano, C. *see* **Lugiato, L. A.; et al.**, (**89i:92026**)
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Powlis, William D. *see* **Censor, Yair; et al.**, (Not in MR)
Prati, F. *see* **Lugiato, L. A.; et al.**, (**89i:92026**)
Protsenko, I. E. *see* **Oraevskiĭ, A. N.; et al., 89i:78013**
Rangnekar, Sada S. *see* **Enns, Richard H.; et al.**, (**89d:00007**)
Ringhofer, Christian A. A singular perturbation analysis for the transient semiconductor device equations in one space dimension. **89k:78029**
Safonova, M. A. *see* **Oraevskiĭ, A. N.; et al., 89i:78013**
Samson, A. M. *see* **Grigoryeva, E. V.; et al., 89d:78042**
Sartirana, L. *see* **Lugiato, L. A.; et al.**, (**89i:92026**)
Schmeiser, C. Strongly reverse biased semiconductor diodes. (*see* **89j:65008**)
Sturgeon, M. L. Range error simulation in optical classifier design. (Not in MR)
Toronov, V. Yu. *see* **Oraevskiĭ, A. N.; et al., 89i:78013**
Ukolov, V. V. *see* **Kambulov, V. F.; et al., 89c:78016**
Wang, Kai Ge *see* **Lugiato, L. A.; et al.**, (**89i:92026**)

Items with secondary classifications in 78A60

Bandy, D. K. *see* **Lugiato, L. A.; et al.**, (**89i:92026**)
Broggi, G. *see* **Lugiato, L. A.; et al.**, (**89j:82002**)
Burak, Ya. Ĭ. (*with* Chekurin, V. F.) ★ Физико-механические поля в полупроводниках. (Russian) [Physical-mechanical fields in semiconductors] **89k:82068**
Chekurin, V. F. *see* **Burak, Ya. Ĭ., 89k:82068**
Dai, Jian Hua *see* **Zhang, Hong Jun; et al., 89k:58203**
Erneux, Thomas *see* **Mandel, Paul; et al.**, (**89j:82002**)
Fitzsimons, Conor J. A comparison of some methods for the solution of the nonlinear Poisson equation in semiconductor device modelling. **89m:65107**
Gilmore, R. *see* **Solari, H. G., 89c:70055**
Haken, Hermann *see* **Pepłowski, P., 89f:34006**
Hall, Shawn A. Real-time control of a nonlinear electromagnetic actuator. (Not in MR)
Hämäläinen, M. S. (*with* Ilmoniemi, R. J.; Sarvas, J.) Interdependence of information conveyed by the magnetoencephalogram and the electroencephalogram. **89h:92008**
Hao, Bai Lin *see* **Zhang, Hong Jun; et al., 89k:58203**
Hemker, P. W. A nonlinear multigrid method for one-dimensional semiconductor device simulation. (*see* **89j:65008**)
Ilmoniemi, R. J. *see* **Hämäläinen, M. S.; et al., 89h:92008**
Jin, Chao Ding *see* **Zhang, Hong Jun; et al., 89k:58203**
Kamiński, Jerzy Zdzisław Photon correlation effects in scattering. **89c:81221**
Kaplan, Alexander E. Bistable solitons of highly-nonlinear Schrödinger equations in nonlinear optics. **89h:35297**
Ladikov, Yu. P. (*with* Samoĭlenko, L. I.) Methods and means of control of rapidly flowing electromagnetic processes. (Russian) (Not in MR)
Lugiato, L. A. (*with* Oldano, C.; Sartirana, L.; Wang, Kai Ge; Narducci, L. M.; Oppo, G. L.; Pernigo, M. A.; Tredicce, J. R.; Prati, F.; Broggi, G.) Spontaneous symmetry breaking and spatial structures in optical systems. (*see* **89j:82002**)
— (*with* Wang, Kai Ge; Narducci, L. M.; Oppo, G. L.; Pernigo, M. A.; Tredicce, J. R.; Bandy, D. K.; Prati, F.) Cooperative frequency locking and spatial structures in lasers. (*see* **89i:92026**)
— (*with* Oldano, C.) Stationary spatial patterns in passive optical systems: two-level atoms. **89b:81265**
Mandel, Paul (*with* Zeghlache, H.; Erneux, Thomas) Time-dependent phase transitions. (*see* **89j:82002**)
Matveev, V. B. (*with* Sall′, M. A.; Rybin, A. V.) Darboux transformations and coherent interaction of the light pulse with two-level media. **89d:81136**
Narducci, L. M. *see* **Lugiato, L. A.; et al.**, (**89i:92026**) *and* (**89j:82002**)
Oldano, C. *see* **Lugiato, L. A., 89b:81265** *and* (**89j:82002**)
Oppo, G. L. *see* **Lugiato, L. A.; et al.**, (**89i:92026**) *and* (**89j:82002**)
Pepłowski, P. (*with* Haken, Hermann) Bifurcation with two parameters in two-dimensional complex space. Applications to laser systems. **89f:34006**
Pernigo, M. A. *see* **Lugiato, L. A.; et al.**, (**89i:92026**) *and* (**89j:82002**)
Prati, F. *see* **Lugiato, L. A.; et al.**, (**89i:92026**) *and* (**89j:82002**)
Rybin, A. V. *see* **Matveev, V. B.; et al., 89d:81136**
Sall′, M. A. *see* **Matveev, V. B.; et al., 89d:81136**
Samoĭlenko, L. I. *see* **Ladikov, Yu. P.**, (Not in MR)
Sartirana, L. *see* **Lugiato, L. A.; et al.**, (**89j:82002**)
Sarvas, J. *see* **Hämäläinen, M. S.; et al., 89h:92008**
Schempp, Walter Elementary holograms and 3-orbifolds. **89k:22021**
Seidman, Thomas I. The transient semiconductor problem computational modeling of velocities. (*see* **89m:78001**)
Solari, H. G. (*with* Gilmore, R.) Relative rotation rates for driven dynamical systems. **89c:70055**
Stark, Henry *see* **Yudilevich, E., 89k:94017**
Tredicce, J. R. *see* **Lugiato, L. A.; et al.**, (**89i:92026**) *and* (**89j:82002**)
Wang, Kai Ge *see* **Lugiato, L. A.; et al.**, (**89i:92026**) *and* (**89j:82002**)
Wang, Peng Ye *see* **Zhang, Hong Jun; et al., 89k:58203**
Yudilevich, E. (*with* Stark, Henry) Spiral sampling: theory and an application to magnetic resonance imaging. **89k:94017**
Zeghlache, H. *see* **Mandel, Paul; et al.**, (**89j:82002**)
Zhang, Hong Jun (*with* Dai, Jian Hua; Wang, Peng Ye; Jin, Chao Ding; Hao, Bai Lin) Analytical study of a bimodal map related to optical bistability. **89k:58203**
Zhang, Ji Yue Applications of bifurcation theory to laser systems. (Chinese. English summary) **89f:58124**

78A70 Biological applications [see also 92A09, 92A27]

Items with secondary classifications in 78A70

Petrina, D. Ya. The process of electrolytes passing through a membrane as a boundary value problem in domains with a fine-grained structure. (Russian) (*see* **89j:82003**)

8A99 Miscellaneous topics

aberge, T. Dynamics of electrically charged extended bodies: classical and quantum systems. **89m:78013**

kama, Hachiro An extension of the Fourier convolution theorem in terms of Poisson brackets. **89e:78018**

revik, I. Phenomenological electrodynamics in curvilinear space, with application to Rindler space. **89b:78016**

ulychev, Yu. G. (*with* Taran, V. N.) An invariant group method for identifying target positions in triangulating, multiposition passive radar systems. **89g:78029**

iarletta, Michele (*with* Matarazzo, Giovanni) On the thermodynamical potentials of simple electromagnetic systems. (Italian. English summary) **89k:78030**

Dell'Antonio, G. F. (*with* Nesi, V.) A general representation for the effective dielectric constant of a composite. **89k:78031**

Garashchenko, F. G. (*with* Kutsenko, I. A.) A second-order method in problems of the structural-parametric optimization of the dynamics of beams. (Russian) **89k:78032**

Gavril, S. *see* **Mor, A.; et al., 89j:78035**

Heaton, K. C. Propagator matrices in the solution of EMP problems. (*see* **89b:00029**)

Kutsenko, I. A. *see* **Garashchenko, F. G., 89k:78032**

Leon, J. Jp. Spectral transform and solitons for generalized coupled Bloch systems. **89j:78034**

Liepiņš, A. (*with* Pēterkops, R. K.) An asymptotic form of plane wave type for a system of charged particles. (Russian) (*see* **89d:81002**)

Malyshev, D. V. (*with* Malyshev, P. V.) Determination of the effective characteristics of systems with complex structure. (Russian) **89k:78033**

Malyshev, P. V. *see* **Malyshev, D. V., 89k:78033**

Matarazzo, Giovanni *see* **Ciarletta, Michele, 89k:78030**

Mor, A. (*with* Weinstein, Marcel Mordechai; Gavril, S.) The electromagnetic fields of a current loop buried at an arbitrary angle in a stratified ground. **89j:78035**

Nesi, V. *see* **Dell'Antonio, G. F., 89k:78031**

uroushev, D. Localisation of charges according to the nonlinear self-consistent electrostatic (Poisson-Boltzmann) theory. **89g:78030**

Pēterkops, R. K. *see* **Liepiņš, A.,** (**89d:81002**)

Simon, Rajiah Mueller matrices and depolarization criteria. **89j:78036**

Taran, V. N. *see* **Bulychev, Yu. G., 89g:78029**

Walther, A. Numerical techniques in eikonal function theory. **89b:78017**

Weinstein, Marcel Mordechai *see* **Mor, A.; et al., 89j:78035**

Items with secondary classifications in 78A99

Barannik, L. F. Symmetry reduction and exact solutions of the Liouville equation. (Russian. English summary) **89k:58299**

Cheborin, O. G. *see* **Verbitskaya, L. V.; et al., 89i:70017**

Chubb, Charles (*with* Sperling, George) Drift-balanced random stimuli: a general basis for studying non-Fourier motion perception. **89j:92088**

Dassios, George Energy behaviour for conservative and dissipative wave processes in continuum mechanics. **89b:73017**

Fabrizio, M. (*with* Santi, Ettore) A uniqueness theorem for nonlinear hyperbolic systems of elasticity and electromagnetism. **89i:35093**

Gerasimenko, V. I. (*with* Stashenko, M. A.) Mathematical problems in the description of a system of electrolyte-membrane solutions. (Russian) **89k:82112**

Gluzberg, V. E. (*with* Shafarenko, V. A.) A point-source field of direct current in a randomly layered medium. (Russian) **89m:86017**

Gorunovich, V. V. (*with* Malyshev, P. V.) Solution of a problem on the convective diffusion of electrolytes in the potential field of a membrane. (Russian) (*see* **89j:82003**)

Grechushnikov, B. N. (*with* Konstantinova, A. F.) Crystal optics of absorbing and gyrotropic media. (*see* **89j:00029**)

Hajnal, J. V. *see* **Nye, J. F.; et al., 89e:86004**

Hannay, J. H. *see* **Nye, J. F.; et al., 89e:86004**

Heil, A. (*with* Kersch, A.; Reifenhäuser, B.; Vogel, H.) Application of topological ideas to the Aharonov-Bohm effect. (Not in MR)

Hirata, Kohji Solvable model of beam-beam effects in e^+e^- colliding storage rings. **89b:81257**

Izen, Steven H. A series inversion for the x-ray transform in n dimensions. **89m:44010**

Jeng, Jiann-Hwa *see* **Varadan, Vasundara V.; et al., 89f:73070**

Kersch, A. *see* **Heil, A.; et al.,** (Not in MR)

Kireĭtov, V. R. ★ К теории уравнений распространения средней пространственной освещенности. (Russian) [On the theory of the equations of propagation of mean spatial illumination] **89a:53082**

Konstantinova, A. F. *see* **Grechushnikov, B. N.,** (**89j:00029**)

Kozorez, V. V. *see* **Verbitskaya, L. V.; et al., 89i:70017**

Levi, Mark Nonchaotic behavior in the Josephson junction. **89m:81209**

Malyshev, P. V. *see* **Gorunovich, V. V.,** (**89j:82003**)

Maugin, Gérard A. ★ Continuum mechanics of electromagnetic solids. **89i:73004**

Nakajima, Nobuharu Reconstruction of a real function from its Hartley-transform intensity. **89j:78031**

Nye, J. F. (*with* Hajnal, J. V.; Hannay, J. H.) Phase saddles and dislocations in two-dimensional waves such as the tides. **89e:86004**

Peusner, L. Space-time "bonds", electromagnetism and graphs. **89h:83003**

Reifenhäuser, B. *see* **Heil, A.; et al.,** (Not in MR)

Santi, Ettore *see* **Fabrizio, M., 89i:35093**

Shafarenko, V. A. *see* **Gluzberg, V. E., 89m:86017**

Sperling, George *see* **Chubb, Charles, 89j:92088**

Stashenko, M. A. *see* **Gerasimenko, V. I., 89k:82112**

Varadan, Vasundara V. (*with* Jeng, Jiann-Hwa; Varadan, Vijay K.) Form invariant constitutive relations for transversely isotropic piezoelectric materials. **89f:73070**

Varadan, Vijay K. *see* **Varadan, Vasundara V.; et al., 89f:73070**

Verbitskaya, L. V. (*with* Kozorez, V. V.; Cheborin, O. G.) Analysis of a dynamical system of free physical pendulums. (Russian) **89i:70017**

Vogel, H. *see* **Heil, A.; et al.,** (Not in MR)

Xu, Cheng Coherent states of electromagnetic fields and the principle of superposition. (Chinese. English summary) **89j:81303**

80–XX Classical thermodynamics, heat transfer {For thermodynamics of solids, see 73B30.}

80–01 Elementary exposition; textbooks

Kirillova, L. G. *see* **Stepanov, A. E., 89f:80001**

Stepanov, A. E. (*with* Kirillova, L. G.) ★ Математическое моделирование процессов выращивания кристаллических полупроводниковых материалов. (Russian) [Mathematical modeling of the growth processes of crystal semiconductor materials] **89f:80001**

Items with secondary classifications in 80–01

Carslaw, H. S. (*with* Jaeger, J. C.) ★ Conduction of heat in solids. **89f:80004**

Jaeger, J. C. *see* **Carslaw, H. S., 89f:80004**

80–02 Advanced exposition (research surveys, monographs, etc.)

Joseph, Daniel D. (*with* Preziosi, Luigi) Heat waves. **89k:80001**

Preziosi, Luigi *see* **Joseph, Daniel D., 89k:80001**

Items with secondary classifications in 80–02

Langer, J. S. Lectures in the theory of pattern formation. (*see* **89j:82001**)

Veverka, Vladimír ★ Matematické modely destilačních a absorpčních procesů. (Czech) [Mathematical models of distillation and absorption processes] **89c:76002**

80–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 80–03

(Duhem, Pierre) *see* **Correspondence: Wald, František, 89f:01082**

(Gibbs, Josiah Willard) *see* **Correspondence: Wald, František, 89f:01082**

(Mach, Ernst) *see* **Correspondence: Wald, František, 89f:01082**

(Ostwald, Wolfgang) *see* **Correspondence: Wald, František, 89f:01082**

(Pinkava, Jindřich) *see* **Correspondence: Wald, František, 89f:01082**

(Wald, František) *see* **Correspondence: Wald, František, 89f:01082**

Items listed otherwise than by author

Correspondence:

Wald, František The correspondence of the Czech chemist František Wald with W. Ostwald, E. Mach, P. Duhem, J. W. Gibbs and other scientists of that time. (Russian summary) **89f:01082**

80–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 80–04

Bayliss, Alvin (*with* Matkowsky, B. J.; Minkoff, M.) Adaptive pseudo-spectral computation of cellular flames stabilized by a point source. (Not in MR)

Matkowsky, B. J. *see* **Bayliss, Alvin; et al.,** (Not in MR)

Minkoff, M. *see* **Bayliss, Alvin; et al.,** (Not in MR)

80–05 Experimental papers

Items with secondary classifications in 80–05

Albahadily, F. N. (*with* Ringland, John; Schell, Mark) Mixed-mode oscillations in an electrochemical system. I. A Farey sequence which does not occur on a torus. **89k:58001**
— *see also* **Schell, Mark, 89k:58002**

Knobler, Charles M. (*with* Scott, Robert L.) Multicritical points in fluid mixtures: experimental studies. (*see* **89g:82024**)

Ringland, John *see* **Albahadily, F. N.; et al., 89k:58001**

Schell, Mark (*with* Albahadily, F. N.) Mixed-mode oscillations in an electrochemical system. II. A periodic-chaotic sequence. **89k:58002**
— *see also* **Albahadily, F. N.; et al., 89k:58001**

Scott, Robert L. *see* **Knobler, Charles M.,** (**89g:82024**)

80–06 Proceedings, conferences, etc.

(Lewis, R. W.) *see* **Numerical methods in thermal problems, 89b:80001**

Items listed otherwise than by author

Conference:

Numerical Methods in Thermal Problems ★ Numerical methods in thermal problems. **89b:80001**

Montreal, PQ ★ Numerical methods in thermal problems. **89b:80001**

Numerical methods in thermal problems ★ Numerical methods in thermal problems. **89b:80001**

Special issue:
  Numerical methods in thermal problems ★ Numerical methods in thermal problems. 89b:80001

Items with secondary classifications in 80–06

(**Albinet, G.**) *see* **Propagation in systems far from equilibrium, 89f:76003**
(**Boccara, N.**) *see* **Propagation in systems far from equilibrium, 89f:76003**
(**Brand, H. R.**) *see* **Propagation in systems far from equilibrium, 89f:76003**
(**Ciccotti, G.**) *see* **Molecular-dynamics simulation of statistical-mechanical systems, 89c:58032**
(**Hoover, William G.**) *see* **Molecular-dynamics simulation of statistical-mechanical systems, 89c:58032**
(**Manneville, Paul**) *see* **Propagation in systems far from equilibrium, 89f:76003**
(**Wesfreid, J. E.**) *see* **Propagation in systems far from equilibrium, 89f:76003**

Items listed otherwise than by author

Les Houches ★ Propagation in systems far from equilibrium. **89f:76003**
Molecular-dynamics simulation of statistical-mechanical systems ★ Molecular-dynamics simulation of statistical-mechanical systems. **89c:58032**
Proceedings of the International School of Physics "Enrico Fermi" ★ Molecular-dynamics simulation of statistical-mechanical systems. **89c:58032**
Propagation in systems far from equilibrium ★ Propagation in systems far from equilibrium. **89f:76003**
Rosario ★ II Seminario sobre el Problema de Stefan y sus Aplicaciones. Vol. 2. (Spanish) [Second Seminar on the Stefan Problem and its Applications. Vol. 2] **89j:00025**
School:
  Molecular-Dynamics Simulation of Statistical-Mechanical Systems ★ Molecular-dynamics simulation of statistical-mechanical systems. **89c:58032**
Seminar:
  Stefan Problem and its Applications ★ II Seminario sobre el Problema de Stefan y sus Aplicaciones. Vol. 2. (Spanish) [Second Seminar on the Stefan Problem and its Applications. Vol. 2] **89j:00025**
Varenna ★ Molecular-dynamics simulation of statistical-mechanical systems. **89c:58032**
Workshop:
  Propagation in Nonequilibrium Systems ★ Propagation in systems far from equilibrium. **89f:76003**

80–08 Computational methods

Anwar, Mohamed Naim Yehia *see* **El Tarazi, Mouhamed Nabih, 89e:80001**
Belonogov, E. K. (*with* Zatsepin, A. Yu.) Comparative analysis of numerical methods for solving integral equations of inverse problems of radiative heat transfer. (Russian) **89j:80001**
— (*with* Vinogradov, I. S.; Zatsepin, A. Yu.) Reconstruction of the temperature of a surface from a given radiation field. (Russian) **89k:80002**
Bussing, Thomas R. A. (*with* Murman, Earll M.) Finite-volume method for the calculation of compressible chemically reacting flows. **89j:80002**
Chen, Chao Kuang *see* **Chen, Han Taw, 89f:80002**
Chen, Han Taw (*with* Chen, Chao Kuang) Hybrid Laplace transform/finite difference method for transient heat conduction problems. **89f:80002**
Dechaumphai, Pramote *see* **Thornton, Earl A., 89h:80001**
Donéa, J. (*with* Laval, H.) Nodal partition of explicit finite element methods for unsteady diffusion problems. **89c:80001**
El Tarazi, Mouhamed Nabih (*with* Anwar, Mohamed Naim Yehia) Asynchronous algorithms for heat conduction in composite media. **89e:80001**
Haberland, Christoph (*with* Lahrmann, Andreas) A comparative investigation on recurrence formulae in finite difference methods. **89d:80001**
Jaarinen, J. *see* **Vidberg, H. J.; et al., (89c:00029)**
Lahrmann, Andreas *see* **Haberland, Christoph, 89d:80001**
Laitinen, Erkki Juhani (*with* Neittaanmäki, Pekka) On numerical simulation of the continuous casting process. **89j:80003**
Laval, H. *see* **Donéa, J., 89c:80001**
Murman, Earll M. *see* **Bussing, Thomas R. A., 89j:80002**
Neittaanmäki, Pekka *see* **Laitinen, Erkki Juhani, 89j:80003**
Richards, Gwynfor D. Numerical simulation of forest fires. **89d:80002**
Riska, D. O. *see* **Vidberg, H. J.; et al., (89c:00029)**
Shchukina, I. *see* **Vakul′chik, P. A., 89c:80002**
Thornton, Earl A. (*with* Dechaumphai, Pramote) Finite element methodology for integrated flow-thermal-structural analysis. **89h:80001**
Vakul′chik, P. A. (*with* Shchukina, I.) Convergence of an implicit difference scheme for the pulse heating of a rotating cylindrical body. (Russian. English summary) **89c:80002**
Vidberg, H. J. (*with* Jaarinen, J.; Riska, D. O.) A thermal inversion problem. (*see* **89c:00029**)
Vinogradov, I. S. *see* **Belonogov, E. K.; et al., 89k:80002**
Yang, Dan Ping Boundary finite element method for heat conduction equation. **89h:80002**
Zatsepin, A. Yu. *see* **Belonogov, E. K., 89j:80001** *and* **89k:80002**

Items with secondary classifications in 80–08

Alifanov, O. M. Derivation of formulas for the gradient of the error in the iterative solution of inverse problems of heat conduction. I. Determination of the gradient in terms of the Green's function. **89h:80005**
Apanovich, Yu. V. (*with* Lyumkis, E. D.) Application of difference schemes on Dirichlet cells for solving problems of heat-mass exchange with phase transitions. (Not in MR)
Arnold, D. N. (*with* Noon, P. J.) Boundary integral equations of the first kind for the heat equation. **89j:80006**
Aziz, A. K. (*with* Stephens, A. B.; Suri, Manil) Numerical methods for reaction-diffusion problems with nondifferentiable kinetics. **89e:65116**
Bass, Jon M. (*with* Oden, J. T.) Adaptive computational methods for chemically-reacting radiative flows. **89h:80014**
Batman, Don (*with* Klamkin, Murray) Bounds for the log mean radius for heat conduction in a multilagged cylindrical pipe. **89d:80005**
Benkhaldoun, F. (*with* Larrouturou, B.) Numerical analysis of the two-dimensional thermodiffusive model for flame propagation. (French summary) **89m:80009**
Brădeanu, Doina (*with* Maksay, St.) A Galerkin approximation solution for heat transfer in thin bars. (Russian) (*see* **89f:00016**)
Bukiet, Bruce Application of front tracking to two-dimensional curved detonation fronts. **89c:80017**
Chen, Qing Yi On nonlinear heat conduction. (Chinese. English summary) **89k:80013**
Čiegis, Raimondas *see* **Kanapėnas, Rimantas; et al., 89k:65155**
(**Cruse, T. A.**) *see* **Advanced boundary element methods, 89b:65009**
De Dier, Bart (*with* Roose, Dirk) Determination of bifurcation points and catastrophes for the Brusselator model with two parameters. **89g:80010**
Elenin, G. G. (*with* Krylov, Vasiliĭ Vilenovich; Sosnin, N. V.) A problem on the dissolving of a dense filtering layer of crystals. **89d:80011**
Feodoritova, O. B. *see* **Zhukov, V. T., 89h:65209**
Fryazinov, I. V. *see* **Zabelina, M. P., 89a:80003**
Gärtel, Ute ★ Fehlerabschätzungen für vektorwertige Randwertaufgaben zweiter Ordnung, insbesondere für Probleme aus der chemischen Reaktions-Diffusions-Theorie. (German) [Error estimates for vector-valued boundary value problems of second order, particularly for problems of chemical reaction-diffusion theory] **89k:65122**
Glasko, V. B. (*with* Gubar′, A. Yu.; Korshunov, A. B.) Asymptotic methods for constructing a numerical algorithm for a problem of the heating of thin plates by radiation. (Russian) **89j:80011**
Gubar′, A. Yu. *see* **Glasko, V. B.; et al., 89j:80011**
Gwinner, J. On the Galerkin approximation of nonsmooth boundary integral equations arising in radiative heat transfer. **89m:80004**
(**Haario, H.**) *see* **Theory and applications of inverse problems, 89c:00029**
Ishiguro, Tomiko *see* **Wada, Y.; et al., (89j:35007)**
Kanapėnas, Rimantas (*with* Norvaišas, Saulius; Petruškevičius, Raimondas; Čiegis, Raimondas) Numerical solution of a problem of the laser heating of metals. (Russian. English and Lithuanian summaries) **89k:65155**
Kirillova, L. G. *see* **Stepanov, A. E., 89f:80001**
Klamkin, Murray *see* **Batman, Don, 89d:80005**
Korshunov, A. B. *see* **Glasko, V. B.; et al., 89j:80011**
Krylov, Vasiliĭ Vilenovich *see* **Elenin, G. G.; et al., 89d:80011**
Kubota, Hiroshi *see* **Wada, Y.; et al., (89j:35007)**
Larrouturou, B. *see* **Benkhaldoun, F., 89m:80009**
(**Lewis, R. W.**) *see* **Numerical methods in thermal problems, 89b:80001**
Lyumkis, E. D. *see* **Apanovich, Yu. V.**, (Not in MR)
MacKeown, P. K. (*with* Newman, Douglas John) ★ Computational techniques in physics. **89a:65002**
Maksay, St. *see* **Brădeanu, Doina, (89f:00016)**
Newman, Douglas John *see* **MacKeown, P. K., 89a:65002**
Noon, P. J. *see* **Arnold, D. N., 89j:80006**
Norvaišas, Saulius *see* **Kanapėnas, Rimantas; et al., 89k:65155**
Oden, J. T. *see* **Bass, Jon M., 89h:80014**
Ogawa, Satoru *see* **Wada, Y.; et al., (89j:35007)**
Osher, Stanley (*with* Sethian, James) Fronts propagating with curvature-dependent speed: algorithms based on Hamilton-Jacobi formulations. **89h:80012**
Paolini, M. (*with* Sacchi Landriani, Giovanni; Verdi, Claudio) Finite element approximations of singular parabolic problems. **89j:76023**
Petruškevičius, Raimondas *see* **Kanapėnas, Rimantas; et al., 89k:65155**
Roose, Dirk *see* **De Dier, Bart, 89g:80010**
Sacchi Landriani, Giovanni *see* **Paolini, M.; et al., 89j:76023**
Schöffel, St. U. Nonlinear resonance phenomena for the Euler-equations coupled with chemical reaction-kinetics. (*see* **89j:35007**)
Sethian, James *see* **Osher, Stanley, 89h:80012**
Sosnin, N. V. *see* **Elenin, G. G.; et al., 89d:80011**
Stepanov, A. E. (*with* Kirillova, L. G.) ★ Математическое моделирование процессов выращивания кристаллических полупроводниковых материалов. (Russian) [Mathematical modeling of the growth processes of crystal semiconductor materials] **89f:80001**
Stephens, A. B. *see* **Aziz, A. K.; et al., 89e:65116**
Sukhinov, A. I. Approximation of the three-dimensional heat equation by locally two-dimensional schemes in cylindrical and spherical coordinates. (Russian) **89a:65150**
Suri, Manil *see* **Aziz, A. K.; et al., 89e:65116**
Tsurko, V. A. (*with* Yakubenya, A. N.) A flow variant of difference schemes for the numerical solution of a problem of Stefan type. (Russian. English summary) **89b:65239**
Verdi, Claudio *see* **Paolini, M.; et al., 89j:76023**
Wada, Y. (*with* Kubota, Hiroshi; Ishiguro, Tomiko; Ogawa, Satoru) A fully implicit high-resolution scheme for chemically reacting compressible flows. (*see* **89j:35007**)
Yakubenya, A. N. *see* **Tsurko, V. A., 89b:65239**
Zabelina, M. P. (*with* Fryazinov, I. V.) A difference method for solving the Stefan problem for a binary system. (Russian) **89a:80003**
Zhukov, V. T. (*with* Feodoritova, O. B.) Interpolation schemes for the numerical solution of the heat equation. (Russian) **89h:65209**

Items listed otherwise than by author

Advanced boundary element methods ★ Advanced boundary element methods. **89b:65009**
Conference:
  Numerical Methods in Thermal Problems ★ Numerical methods in thermal problems. **89b:80001**
Helsinki ★ Theory and applications of inverse problems. **89c:00029**
IUTAM Symposium:
  Advanced Boundary Element Methods ★ Advanced boundary element methods. **89b:65009**
Montreal, PQ ★ Numerical methods in thermal problems. **89b:80001**
Numerical methods in thermal problems ★ Numerical methods in thermal problems. **89b:80001**
San Antonio, Tex. ★ Advanced boundary element methods. **89b:65009**

Special issue:
Numerical methods in thermal problems ★ Numerical methods in thermal problems. **89b:80001**
Symposium:
Theory and Applications of Inverse Problems ★ Theory and applications of inverse problems. **89c:00029**
Theory and applications of inverse problems ★ Theory and applications of inverse problems. **89c:00029**

80A05 Foundations

Aaberge, T. A Gibbsian formulation of thermostatics. **89h:80003**
(Buchdahl, H. A.) *see* **Walter, Johann, 89k:80006**
Day, W. A. The homogeneous field approximation of classical thermodynamics. **89c:80003**
— Thermodynamic efficiency and frequency spectra. **89k:80003**
— The work done by a deformable heat conductor. **89k:80004**
Lavenda, B. H. Bayesian approach to thermostatistics. **89k:80005**
Walter, Johann On H. Buchdahl's project of a thermodynamics without empirical temperature as a primitive concept. Comment on: "On the redundancy of the zeroth law of thermodynamics" [J. Phys. A **19** (1986), no. 9, L561–L564; MR 87j:80002]. **89k:80006**

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Chuaqui, Benedicto *see* **Hucklenbroich, Peter, 89c:92043**
Gaveau, Bernard (*with* Gaveau, Marc-André) A semi-microscopic model of the heat conduction law. **89i:82009**
Gaveau, Marc-André *see* **Gaveau, Bernard, 89i:82009**
Hucklenbroich, Peter (*with* Chuaqui, Benedicto) Thesen und Probleme zu den Begriffen von Ordnung, Information und Emergenz. [Theses and problems on the concepts of order, information and emergence] **89c:92043**
Kondepudi, D. K. Microscopic aspects implied by the second law. **89b:82037**
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Noll, Walter (*with* Virga, Epifanio G.) Fit regions and functions of bounded variation. **89k:73005**
(Peusner, L.) *see* **Louie, A. H., 89d:92018**
Richardson, I. W. *see* **Louie, A. H., 89d:92018**
Schächter, François An informational extension of the second principle. **89j:94011**
Virga, Epifanio G. *see* **Noll, Walter, 89k:73005**

80A10 Classical thermodynamics

Anthony, K.-H. Entropy and dynamical stability—a method due to Lagrange-formalism and applied to thermodynamics of irreversible processes. **89k:80007**
Chen, Jin Can *see* **Yan, Zi Jun, 89e:80005** *and* (Not in MR)
Day, W. A. ★ A commentary on thermodynamics. **89d:80003**
— The efficiency of an irreversible cycle. **89h:80004**
Ellinghaus, R. *see* **Muschik, W., 89g:80001**
Gilmore, R. Reply to: "Comment on 'Length and curvature in the geometry of thermodynamics'" [Phys. Rev. A (3) **32** (1985), no. 5, 3141; MR 88j:80002] by G. Ruppeiner and "Weinhold's metric geometry and the second law of thermodynamics" [ibid. A (3) **32** (1985), no. 5, 3142–3143; MR 89d:80004a] by K. Horn. **89d:80004b**
— *see also* **Horn, K., 89d:80004a**
Horn, K. Weinhold's metric geometry and the second law of thermodynamics. **89d:80004a**
— *see also* **Gilmore, R., 89d:80004b**
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Jumarie, Guy Thermodynamic representation of dynamic systems defined by a syntactic space and a semantic space. **89b:80002**
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Klinger, David J. Shape of the binodal curves at a critical endpoint. **89k:80008**
Ma, Fen Rong *see* **Zhu, Zhen Yuan,** (Not in MR)
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Ricou, Manuel A general first law for thermodynamics. **89k:80009**
(Ruppeiner, George) *see* **Gilmore, R., 89d:80004b**
Shi, Yu Wen A preliminary study on thermodynamic mathematics. (Chinese. English summary) **89e:80004**
Story, Troy L. Thermodynamics on one-forms. **89c:80004**
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Zanchini, E. Thermodynamics: energy of closed and open systems. (Italian and Russian summaries) **89j:80004**
Zhu, Zhen Yuan (*with* Ma, Fen Rong) The theorem of minimum internal entropy change. (Not in MR)

Items with secondary classifications in 80A10

Aaberge, T. A Gibbsian formulation of thermostatics. **89h:80003**
Day, W. A. The homogeneous field approximation of classical thermodynamics. **89c:80003**
Guan, Zhi Cheng Change of phase with variable melting temperature. (Italian summary) **89g:80004**
Lavenda, B. H. Bayesian approach to thermostatistics. **89k:80005**
Razumikhin, B. S. ★ Classical principles and optimization problems. **89b:90116**
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80A15 Thermodynamics of mixtures

Ball, J. M. (*with* James, Richard Dana) Fine phase mixtures as minimizers of energy. **89c:80005**
James, Richard Dana *see* **Ball, J. M., 89c:80005**
Nyiri, B. Thermodynamical derivation of equations of motion for multicomponent fluids. **89c:80006**
Perroud, M. (*with* Saucier, A.) Thermodynamics of dissipative systems. **89k:80010**
Samohýl, Ivan ★ Thermodynamics of irreversible processes in fluid mixtures. **89k:80011**
Saucier, A. *see* **Perroud, M., 89k:80010**
Wang, Shingmin *see* **Wollkind, David J., 89a:80001** *and* **89j:80005**
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Items with secondary classifications in 80A15

Artola, Michel Nonlinear diffusion equations in heterogeneous media. (*see* **89d:00007**)
Guo, You Zhong (*with* Ma, Chen; Zhang, Wei Tao) A problem arising from the effect of thermal gradients in marine piled structures. **89i:35036**
Ma, Chen *see* **Guo, You Zhong; et al., 89i:35036**
Zhang, Wei Tao *see* **Guo, You Zhong; et al., 89i:35036**

80A20 Heat and mass transfer, heat flow

Abbott, J. H. *see* **Kythe, P. K., 89e:80008**
Ad″yutov, M. M. (*with* Lepin, L. A.) Self-similar solutions of the nonlinear heat equation with distributed parameters in the case of constant heat conduction. **89c:80007**
Alifanov, O. M. (*with* Rumyantsev, S. V.) Application of iterative regularization for the solution of incorrect inverse problems. **89g:80002**
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Balint, Ştefan (*with* Schlett, Zeno) A mathematical model for growing filaments with small diameter cross section in vacuum. **89b:80003**
Batman, Don (*with* Klamkin, Murray) Bounds for the log mean radius for heat conduction in a multilagged cylindrical pipe. **89d:80005**
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Benmouna, M. *see* **Jordan, A.; et al., 89c:80010**
Berezovskiĭ, A. A. A projection-difference method for solving one-dimensional problems of thermal radiation. (Russian) **89e:80006**
— Two-dimensional problems of thermal radiation. (Russian) **89f:80003**
— (*with* Shuvar, R. A.) Nonlinear one-dimensional stationary problems of heat conduction in piecewise homogeneous media. (Russian) **89j:80009**
— *see also* **Mitropol′skiĭ, Yu. A., 89d:80019**
Bhutani, O. P. (*with* Chandrasekaran, G.; Mital, Poornima) On the exact solutions of nonlinear differential equations of nuclear engineering system via invariant variational principles. **89h:80007**
Blanchard, Dominique (*with* Frémond, Michel; Visintin, A.) Phase change with dissipation. **89g:80003**
Bogomolova, I. A. (*with* Glasko, V. B.; Kal′ner, V. D.; Kulik, N. I.; Kondorskaya, E. E.; Tikhonov, A. N.; Yurasov, S. A.) Inverse problems associated with the control of diffusional and thermal processes. **89d:80007**
Borucki, A. *see* **Jordan, A.; et al., 89c:80010**
Bouayed, F. *see* **Jordan, A.; et al., 89c:80010**
Brădeanu, Doina Finding variational functionals by the Galerkin procedure. Applications to the heat transfer. **89k:80012**
— (*with* Maksay, St.) A Galerkin approximation solution for heat transfer in thin bars. (Russian) (*see* **89f:00016**)
Brădeanu, Petre The Ritz variational method for the heat transfer in a circular cylinder. **89h:80008**
Brenner, D. *see* **Hagan, P. S., 89d:80012**
Bunkin, F. V. (*with* Galaktionov, V. A.; Kirichenko, N. A.; Kurdyumov, S. P.; Samarskiĭ, A. A.) A nonlinear boundary value problem of ignition by radiation. (Russian) **89d:80008**
Caginalp, G. (*with* Fife, P. C.) Dynamics of layered interfaces arising from phase boundaries. **89d:80009**
Carslaw, H. S. (*with* Jaeger, J. C.) ★ Conduction of heat in solids. **89f:80004**
Chandrasekaran, G. *see* **Bhutani, O. P.; et al., 89h:80007**
Char, Ming-I *see* **Chen, Chao Kuang, 89i:80001**
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Chen, Qing Yi On nonlinear heat conduction. (Chinese. English summary) **89k:80013**
Chevalier, Jacques Sur le calcul des contraintes thermiques en service. (English summary) [Calculating operational thermal stresses] **89m:80001**
Chopard, Bastien (*with* Droz, Michel) Cellular automata model for heat conduction in a fluid. **89a:80002**
Dangelmayr, G. *see* **Neveling, M.; et al.,** (**89b:58064**)
Danilov, V. G. *see* **Maslov, V. P.; et al., 89k:80018**
Danilyuk, I. I. (*with* Oleĭnik, M. V.) ★ Об управлении фронтом кристаллизации при электрошлаковом переплаве. (Russian) [Control of the crystallization front in

submerged-arc smelting] **89d:80010**

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Demchenko, V. F. *see* **Lyashko, I. I., 89c:80012**

Deng, Lu Cheng *see* **Xiao, Jin Sheng; et al., 89m:80006**

Droz, Michel *see* **Chopard, Bastien, 89a:80002**

Dysthe, Kristian *see* **Persson, Leif; et al., 89k:80019**

Efimov, A. B. (*with* Labutin, S. A.) Movement of a phase boundary in the Earth with a slow and smooth change in the deep heat flow. (Russian)

Eilbeck, J. C. (*with* Furter, J. E.; Grinfeld, Michael) On a stationary state characterization of transition from spinodal decomposition to nucleation behaviour in the Cahn-Hilliard model of phase separation. **89k:80015**

Elenin, G. G. (*with* Mal'kov, K. V.) A class of nonlinear evolution systems that describe crystallization processes. **89k:80016**

— (*with* Krylov, Vasiliĭ Vilenovich; Sosnin, N. V.) A problem on the dissolving of a dense filtering layer of crystals. **89d:80011**

Fife, P. C. *see* **Caginalp, G., 89d:80009**

Figari, R. (*with* Papanicolaou, George C.; Rubinstein, Jacob) Remarks on the point interaction approximation. **89m:80002**

Filippov, B. V. An integral variational principle of the linear thermodynamics of irreversible processes in evolution problems of a viscous fluid. (Russian. English summary) **89c:80008**

Fix, G. J. (*with* Lin, Jian-Tong) Numerical simulations of nonlinear phase transitions. I. The isotropic case. **89h:80009**

Francfort, G. A. (*with* Murat, F.) Optimal bounds for conduction in two-dimensional, two-phase, anisotropic media. **89h:80010**

Frankel, Michael L. On the nonlinear evolution of a solid-liquid interface. **89b:80004**

Frémond, Michel *see* **Blanchard, Dominique; et al., 89g:80003**

Fryazinov, I. V. *see* **Zabelina, M. P., 89a:80003**

Furter, J. E. *see* **Eilbeck, J. C.; et al., 89k:80015**

Galaktionov, V. A. *see* **Bunkin, F. V.; et al., 89d:80008**

Galipò, Maria Pia (*with* Giambò, Sebastiano) On the heat conduction in relativistic extended irreversible thermodynamics. **89m:80003**

Gautesen, A. K. The effective conductivity of a composite material with a periodic rectangular geometry. **89b:80005**

Giambò, Sebastiano *see* **Galipò, Maria Pia, 89m:80003**

Gilliam, David (*with* Mair, Bernard; Martin, Clyde Franklin) A convolution method for inverse heat conduction problems. **89j:80010**

Glasko, V. B. (*with* Gubar', A. Yu.; Korshunov, A. B.) Asymptotic methods for constructing a numerical algorithm for a problem of the heating of thin plates by radiation. (Russian) **89j:80011**

— *see also* **Bogomolova, I. A.; et al., 89d:80007**

Gorbachev, V. A. The Neumann problem for a plate with a groove. (Russian) **89e:80007**

Greenberg, J. M. Hyperbolic heat transfer problems with phase transitions. (*see* **89j:35007**)

Grinfeld, Michael *see* **Eilbeck, J. C.; et al., 89k:80015**

Guan, Zhi Cheng Change of phase with variable melting temperature. (Italian summary) **89g:80004**

Gubar', A. Yu. *see* **Glasko, V. B.; et al., 89j:80011**

Gurtin, Morton E. Toward a nonequilibrium thermodynamics of two phase materials with sharp interface. **89c:80009**

Güttinger, W. *see* **Neveling, M.; et al.**, (**89b:58064**)

Gwinner, J. On the Galerkin approximation of nonsmooth boundary integral equations arising in radiative heat transfer. **89m:80004**

Hagan, P. S. (*with* Brenner, D.) Sorption limits with increasing diffusion coefficients. **89d:80012**

— (*with* Herskowitz, M.; Pirkle, C.) A simple approach to highly sensitive tubular reactors. **89g:80005**

Haug, P. *see* **Neveling, M.; et al.**, (**89b:58064**)

Herskowitz, M. *see* **Hagan, P. S.; et al., 89g:80005**

Hills, R. N. (*with* Roberts, P. H.) On the formulation of diffusive mixture theories for two-phase regions. **89d:80013**

Howison, S. D. Similarity solutions to the Stefan problem and the binary alloy problem. **89j:80012**

Huppert, Herbert E. Phase changes following the initiation of a hot turbulent flow over a cold solid surface. **89k:80017**

Jaeger, J. C. *see* **Carslaw, H. S., 89f:80004**

Jiang, Li Shang (*with* Xie, Wei Qing) A two-phase Stefan-Signorini problem. (Chinese. English summary) **89g:80006**

Jordan, A. (*with* Bouayed, F.; Borucki, A.; Benmouna, M.) Numerical method for the resolution of nonlinear heat transfer problems. **89c:80010**

Kal'ner, V. D. *see* **Bogomolova, I. A.; et al., 89d:80007**

van Kampen, Nico G. Explicit calculation of a model for diffusion in nonconstant temperature. **89c:80011**

Kirichenko, N. A. *see* **Bunkin, F. V.; et al., 89d:80008**

Klamkin, Murray *see* **Batman, Don, 89d:80005**

Kocheshkov, G. V. Correctness of a mathematical model for a magnetohydrodynamic thermophysical process. (Russian. English summary) **89d:80014**

(Kolobov, N. A.) *see* **Maslov, V. P.; et al., 89k:80018**

Kondorskaya, E. E. *see* **Bogomolova, I. A.; et al., 89d:80007**

Korshunov, A. B. *see* **Glasko, V. B.; et al., 89j:80011**

Krylov, Vasiliĭ Vilenovich *see* **Elenin, G. G.; et al., 89d:80011**

Kuiken, H. K. A note on the wall singularity of a solid-liquid interface caused by a difference between the thermal conductivities of the solid and the liquid phases. **89d:80015**

Kulik, N. I. *see* **Bogomolova, I. A.; et al., 89d:80007**

Kurdyumov, S. P. *see* **Bunkin, F. V.; et al., 89d:80008**

Kythe, P. K. (*with* Abbott, J. H.) Propagation and interference of waves in oscillatory heat conduction in composite media. **89e:80008**

Labutin, S. A. *see* **Efimov, A. B.**, (Not in MR)

Lach, Jan Application of the direct operational method to an analysis of unsteady heat flow between a fluid and a solid body generating heat. (Russian summary) **89d:80016**

— (*with* Pieczka, Wincenty) Application of some special functions related to the Bessel functions in transient thermal problems and operator calculus. (Russian summary) **89d:80017**

Lang, D. *see* **Neveling, M.; et al.**, (**89b:58064**)

Lepin, L. A. *see* **Ad''yutov, M. M., 89c:80007**

Levanov, E. I. (*with* Sot·skiĭ, E. N.) Heat transfer taking into account relaxation of the thermal flow. (Russian) **89d:80018**

Lin, Jian-Tong *see* **Fix, G. J., 89h:80009**

Luk'yanov, A. T. (*with* Milyuk, I. R.) Applications of one-dimensional systems of quasilinear equations to the nonisothermic motion of fluids in pipelines. (Russian) **89b:80006**

Lyashko, I. I. (*with* Demchenko, V. F.) ★ Обобщенные формулировки задач тепло- и массопереноса в слоистых средах. (Russian) [Generalized formulations of heat- and mass-transport problems in layered media] **89c:80012**

Lyumkis, E. D. *see* **Apanovich, Yu. V.**, (Not in MR)

Mair, Bernard *see* **Gilliam, David; et al., 89j:80010**

Maksay, St. *see* **Brădeanu, Doina**, (**89f:00016**)

Mal'kov, K. V. *see* **Elenin, G. G., 89k:80016**

Manacorda, T. Application of the π theorem to heat conduction in solids. (Italian. English summary) **89c:80013**

Martin, Clyde Franklin *see* **Gilliam, David; et al., 89j:80010**

Maslov, V. P. (*with* Danilov, V. G.; Volosov, K. A.) ★ Математическое моделирование процессов тепломассопереноса. (Russian) [Mathematical modeling of heat- and mass-transport processes] **89k:80018**

Milyuk, I. R. *see* **Luk'yanov, A. T., 89b:80006**

Minasyan, R. S. A mixed boundary value problem of heat conduction for a rotating cylinder of finite length. (Russian) **89c:80014**

Mital, Poornima *see* **Bhutani, O. P.; et al., 89h:80007**

Mitropol'skiĭ, Yu. A. (*with* Berezovskiĭ, A. A.) A Stefan problem with a limit stationary state in special electrometallurgy, cryosurgery and the physics of seas. (Russian) **89d:80019**

Moyne, Christian *see* **Degiovanni, Alain; et al., 89k:80014**

Murat, F. *see* **Francfort, G. A., 89h:80010**

Murio, D. A. (*with* Paloschi, Jorge R.) Combined mollification—future temperatures procedure for solution of inverse heat conduction problem. **89f:80005**

Musaev, N. D. *see* **Zyong, N. Kh.; et al., 89m:80007**

Naval, È. S. Optimal control of a two-dimensional temperature field. (Russian) (Not in MR)

Neveling, M. (*with* Lang, D.; Haug, P.; Güttinger, W.; Dangelmayr, G.) Interactions of stationary modes in systems with two and three spatial degrees of freedom. (*see* **89b:58064**)

Niezgódka, Marek (*with* Sprekels, Jürgen) On the dynamics of structural phase transitions in shape memory alloys. **89h:80011**

Nigmatulin, R. I. *see* **Zyong, N. Kh.; et al., 89m:80007**

Noon, P. J. *see* **Arnold, D. N., 89j:80006**

Oleĭnik, M. V. *see* **Danilyuk, I. I., 89d:80010**

Paloschi, Jorge R. *see* **Murio, D. A., 89f:80005**

Papanicolaou, George C. *see* **Figari, R.; et al., 89m:80002**

Persson, Leif (*with* Wyller, John; Dysthe, Kristian) A note on Whitham's method and the homogenization procedure. **89k:80019**

Pieczka, Wincenty *see* **Lach, Jan, 89d:80017**

Pirkle, C. *see* **Hagan, P. S.; et al., 89g:80005**

Quilghini, Demore An example of the optimization of a plane one-dimensional two-phase problem inverse to Stefan's. (Italian) **89f:80006**

Reĭder, È. E. Integro-differential formulation of a one-dimensional two-phase problem of Stefan type with sources. (Russian) **89f:80007**

Roberts, P. H. *see* **Hills, R. N., 89d:80013**

Rodionov, A. Yu. Application of the theory of functions of several complex variables to the solution of three-dimensional problems of heat conduction and thermoelasticity. (Russian) (*see* **89g:70002**)

Rubinstein, Jacob *see* **Figari, R.; et al., 89m:80002**

Rumyantsev, S. V. *see* **Alifanov, O. M., 89g:80002** *and* **89h:80006**

Rusin, S. P. Solution of inverse problems of the design of heat systems using optical-geometric functions. (Russian) **89k:80020**

Saint Jean Paulin, Jeannine *see* **Degiovanni, Alain; et al., 89k:80014**

Salamatin, A. N. Mathematical statement and investigation of the problem of heat transfer between fluid flow in a channel and the environment.

Samarskiĭ, A. A. *see* **Bunkin, F. V.; et al., 89d:80008**

Schlett, Zeno *see* **Balint, Ştefan, 89b:80003**

Shayakhmetova, A. Periodic modes in a system of relay control of the mean temperature of a body. (Russian) **89d:80020**

Shuvar, R. A. *see* **Berezovskiĭ, A. A., 89j:80009**

Sidenko, N. R. Solvability of an initial-boundary value problem of heat conduction for a thermoradiating body with apertures. (Russian) **89d:80021**

Solomon, A. D. *see* **Wilson, D. G., 89j:80014**

Soós, E. Spherical thermal waves produced by a point source in a rigid conductor of integral type. **89j:80013**

Sosnin, N. V. *see* **Elenin, G. G.; et al., 89d:80011**

Sot·skiĭ, E. N. *see* **Levanov, E. I., 89d:80018**

Sprekels, Jürgen *see* **Niezgódka, Marek, 89h:80011**

Strain, John Linear stability of planar solidification fronts. **89c:80015**

Taous, Khalid *see* **Degiovanni, Alain; et al., 89k:80014**

Tikhonov, A. N. *see* **Bogomolova, I. A.; et al., 89d:80007**

Visintin, A. Supercooling and superheating effects in heterogeneous systems. **89g:80007**

— Coupled thermal and electromagnetic evolution in a ferromagnetic body. (German and Russian summaries) **89e:80009**

— *see also* **Blanchard, Dominique; et al., 89g:80003**

Volosov, K. A. *see* **Maslov, V. P.; et al., 89k:80018**

Williams, M. M. R. Thermal conduction in bispherical systems and its role in self-induced thermophoresis of aerosol particles. **89m:80005a**

— Corrigendum: "Thermal conduction in bispherical systems and its role in self-induced thermophoresis of aerosol particles". **89m:80005b**

Wilson, D. G. (*with* Solomon, A. D.) A Stefan-type problem with void formation and its explicit solution. **89j:80014**

Wollkind, David J. (*with* Zhang, B.) A nonlinear stability analysis of a fixed-boundary model equation for alloy solidification. **89k:80021**

Wyller, John *see* **Persson, Leif; et al., 89k:80019**

Xiao, Jin Sheng (*with* Deng, Lu Cheng; Yu, Chang Ming) The variational principle and generalized variational principle for the heat conduction problem. (Chinese. English summary) **89m:80006**

Xie, Wei Qing *see* **Jiang, Li Shang, 89g:80006**

Yu, Chang Ming *see* **Xiao, Jin Sheng; et al., 89m:80006**

Yurasov, S. A. *see* **Bogomolova, I. A.; et al., 89d:80007**

Zabelina, M. P. (*with* Fryazinov, I. V.) A difference method for solving the Stefan problem for a binary system. (Russian) **89a:80003**

Zhang, B. *see* **Wollkind, David J., 89k:80021**

Zhernovoĭ, Yu. V. Solution of an inverse Stefan problem in the case of an axisymmetric temperature field. (Russian) (Not in MR)

Zyong, N. Kh. (*with* Musaev, N. D.; Nigmatulin, R. I.) Self-similar solutions of the problem of heat and mass transfer in a saturated porous medium with a volume heat source. **89m:80007**

Items with secondary classifications in 80A20

Aifantis, Elias *see* **Kuttler, Kenneth, 89m:73006**

Alexander, J. Iwan D. *see* **McFadden, G. B.; et al., 89f:76042**

Al-Sadah, Fayez S. H. (*with* Khaliq, A. Q. M.; Bashir, M.) Finite difference analysis for Navier-Stokes and energy equations of Couette-Poiseuille flow. (*see* **89b:00021**)

Anisyutin, B. M. (*with* Meĭrmanov, A. M.) Two-dimensional self-similar solutions of a one-phase Stefan problem. (Russian) **89f:35214**

Anwar, Mohamed Naim Yehia *see* **El Tarazi, Mouhamed Nabih, 89e:80001**

Atik, Y. A boundary value problem for heat and mass transfer in porous media. **89k:76087**

Bakirova, M. I. (*with* Dimova-Borshukova, Stefka; Dorodnitsyn, V. A.; Kurdyumov, S. P.; Samarskiĭ, A. A.; Svirshchevskiĭ, S. R.) Invariant solutions of the heat equation that describe the directed propagation of combustion and spiral waves in a nonlinear medium. **89i:35076**

Bampi, Franco (*with* Fusco, Domenico) Nonlinear wave analysis of a hyperbolic model for heat conduction. **89k:35194**

Bardi, Martino Asymptotic spherical symmetry of the free boundary in degenerate diffusion equations. **89f:35215**

Bashir, M. *see* **Al-Sadah, Fayez S. H.; et al., (89b:00021)**

Belonogov, E. K. (*with* Zatsepin, A. Yu.) Comparative analysis of numerical methods for solving integral equations of inverse problems of radiative heat transfer. (Russian) **89j:80001**

— (*with* Vinogradov, I. S.; Zatsepin, A. Yu.) Reconstruction of the temperature of a surface from a given radiation field. (Russian) **89k:80002**

Berman, V. S. (*with* Polyanin, A. D.) Mass exchange of a pulsating bubble. (Russian) (Not in MR)

Bizhanova, G. I. (*with* Danilyuk, I. I.) An irregular Stefan problem. (Russian. English summary) **89b:35169**

Boudourides, M. A. (*with* Charalambakis, Nicolas Ch.) Asymptotic stability of a stratified multicomponent flow with temperature-dependent viscosities. (French summary) **89h:76016**

Brenner, Howard *see* **Nitsche, Ludwig C.; et al., 89c:35074**

Briksa, M. S. *see* **Kalinyak, M. Ī., 89g:35043**

Broadbridge, P. *see* **Rogers, Colin, 89a:35230**

Bustos, María Cristina (*with* Concha, Fernando) On the construction of global weak solutions in the Kynch theory of sedimentation. **89i:76090**

Butuzov, V. F. (*with* Urazgil′dina, T. A.) Asymptotic solution of the problem of heat propagation in thin bodies. (Russian) **89a:35108**

Cannarsa, Piermarco (*with* Da Prato, G.; Zolésio, J.-P.) Dynamical shape control of the heat equation. **89m:49047**

Carey, G. F. *see* **MacKinnon, R. J., 89g:76009**

Cebeci, Tuncer ★ Solutions manual and computer programs for *Physical and computational aspects of convective heat transfer*. **89i:76086b**

Charalambakis, Nicolas Ch. *see* **Boudourides, M. A., 89h:76016**

Chen, Chao Kuang *see* **Chen, Han Taw, 89f:80002**

Chen, Han Taw (*with* Chen, Chao Kuang) Hybrid Laplace transform/finite difference method for transient heat conduction problems. **89f:80002**

Chernikov, A. A. Application of asymmetric schemes on triangular grids for the solution of the heat equation. (Russian) **89d:65091**

Chopard, Bastien (*with* Droz, Michel) Cellular automata model for thermo-hydrodynamics. **89i:76036**

Chugunov, V. A. *see* **Kornev, K. G., 89k:76088**

Clarke, Joseph H. (*with* Delale, Can F.) Expansion flows on walls with nonequilibrium condensation. **89e:76056**

Concha, Fernando *see* **Bustos, María Cristina, 89i:76090**

Coriell, S. R. *see* **McFadden, G. B.; et al., 89f:76042**

Danilyuk, I. I. *see* **Bizhanova, G. I., 89b:35169**

Da Prato, G. *see* **Cannarsa, Piermarco; et al., 89m:49047**

Datta, Nanigopal (*with* Jana, Rabindra Nath) Flow and heat transfer in an elastico-viscous liquid over an oscillating plate in a rotating frame. (Turkish summary) **89i:76021**

Delale, Can F. *see* **Clarke, Joseph H., 89e:76056**

Dimova-Borshukova, Stefka *see* **Bakirova, M. I.; et al., 89i:35076**

Donéa, J. (*with* Laval, H.) Nodal partition of explicit finite element methods for unsteady diffusion problems. **89c:80001**

Dorodnitsyn, V. A. *see* **Bakirova, M. I.; et al., 89i:35076**

Droz, Michel *see* **Chopard, Bastien, 89i:76036**

Eldén, Lars Hyperbolic approximations for a Cauchy problem for the heat equation. **89h:35138**

El Tarazi, Mouhamed Nabih (*with* Anwar, Mohamed Naim Yehia) Asynchronous algorithms for heat conduction in composite media. **89e:80001**

Engl, Heinz W. (*with* Langthaler, Thomas; Manselli, Paolo) On an inverse problem for a nonlinear heat equation connected with continuous casting of steel. **89g:35114**

Fang, Pei De (*with* Kang, Lian Cheng) The general heat conduction problem with moving boundary in three-dimensional space. (Chinese. English summary) **89a:35227**

Fasano, Antonio ★ Las zonas pastosas en el problema de Stefan. (Spanish) [Mushy regions in the Stefan problem] **89f:35218**

Fehribach, Joseph D. Perturbation methods for solid diffusion in a Stefan problem. **89f:35219**

Fusco, Domenico *see* **Bampi, Franco, 89k:35194**

Fushchich, V. I. (*with* Galitsyn, A. S.; Polubinskiĭ, A. S.) A new mathematical model of diffusion processes with finite rate. (Russian. English summary) **89h:35141**

Galaktionov, V. A. (*with* Posashkov, S. A.) Unbounded exact solution of the nonlinear heat equation with a source. (Russian. English summary) **89e:35074**

Galitsyn, A. S. (*with* Zhukovskiĭ, A. N.; Karagodov, V. P.) Solution of nonlinear convection problems in a closed volume of a viscous fluid by a projection-difference method. (Russian) **89g:76007**

— (*with* Slyusareva, L. V.) A nonlinear problem for an evolution equation that takes into account the heat memory of the medium. (Russian. English summary) **89c:35081**

— *see also* **Fushchich, V. I.; et al., 89h:35141**

Grauel, A. Fundamentals of surface thermodynamics. **89g:76043**

Gromyko, G. F. A class of difference schemes for problems of heat conduction. (Russian) **89h:65156**

Gupta, Anil *see* **Singh Chandel, R. C., 89c:33006**

Gurtin, Morton E. (*with* Matano, Hiroshi) On the structure of equilibrium phase transitions within the gradient theory of fluids. **89j:49015**

Gustafsson, Björn (*with* Mossino, Jacqueline) Quelques inégalités isopérimétriques pour le problème de Stefan. (English summary) [Some isoperimetric inequalities for the Stefan problem] **89b:35170**

Haberland, Christoph (*with* Lahrmann, Andreas) A comparative investigation on recurrence formulae in finite difference methods. **89d:80001**

He, Zheng Xu Controlling the free boundaries in solidification processes. **89f:35221**

Herrero, M. A. (*with* Vázquez, Juan Luis) Thermal waves in absorbing media. **89i:35077**

Hill, J. M. (*with* Willis, J. R.) Analytical aspects of heat flow in random two-component laminates. **89f:73007**

Iannece, Donatella (*with* Starita, Giulio) On the operator $(u_{tt} - \varepsilon u_{xx})_t - (u_{tt} - u_{xx})_{xx}$ related to thermomechanics of fluids. (Italian summary) **89j:76070**

Jaarinen, J. *see* **Vidberg, H. J.; et al., (89c:00029)**

Jana, Rabindra Nath *see* **Datta, Nanigopal, 89i:76021**

Jones, A. S. Eigenvalues and eigenfunctions for general Graetz problems. (Not in MR)

Joseph, Daniel D. (*with* Preziosi, Luigi) Heat waves. **89k:80001**

Kaiser, Thomas (*with* Tröltzsch, F.) An inverse problem arising in the steel cooling process. **89f:35201**

Kalinyak, M. Ī. (*with* Briksa, M. S.) Solution of the quasilinear differential heat equation for domains that are conformally mapped onto a half plane. (Ukrainian. Russian summary) **89g:35043**

Kanaun, S. K. Stationary waves in a homogeneous medium perturbed by an inclusion in the form of a curvilinear rod. **89c:73021**

Kang, Lian Cheng *see* **Fang, Pei De, 89a:35227**

Karagodov, V. P. *see* **Galitsyn, A. S.; et al., 89g:76007**

Kenmochi, Nobuyuki (*with* Primicerio, Mario) One-dimensional heat conduction with a class of automatic heat-source controls. **89m:49008**

Khaliq, A. Q. M. *see* **Al-Sadah, Fayez S. H.; et al., (89b:00021)**

King, John Robert Interacting dopant diffusions in crystalline silicon. **89d:35086**

Kirillova, L. G. *see* **Stepanov, A. E., 89f:80001**

Kolpakov, A. G. (*with* Rakin, S. I.) A problem of the synthesis of a composite material of one-dimensional structure in a given class of materials. (Russian) **89c:73057**

Kolyano, Yu. M. *see* **Verba, I. I., 89f:73011**

Kornev, K. G. (*with* Chugunov, V. A.) Determination of the equilibrium form of bodies that are formed during the solidification of a filtration flow. (Russian) **89k:76088**

Kriegsmann, Gregory A. (*with* Olmstead, W. E.) Source identification for the heat equation. (Not in MR)

Kulagina, N. A. Modeling of phase transitions in the case of nonisothermal filtration of a compressible fluid. (Russian) **89f:76080**

Kuraev, G. N. A locally one-dimensional scheme for a non-steady-state problem of heat conduction with radiation on the boundary. **89k:65120**

Kurdyumov, S. P. *see* **Bakirova, M. I.; et al., 89i:35076**

Kuttler, Kenneth (*with* Aifantis, Elias) Existence and uniqueness in nonclassical diffusion. **89m:73006**

Lahrmann, Andreas *see* **Haberland, Christoph, 89d:80001**

Laitinen, Erkki Juhani (*with* Neittaanmäki, Pekka) On numerical simulation of the continuous casting process. **89j:80003**

Langthaler, Thomas *see* **Engl, Heinz W.; et al., 89g:35114**

Laval, H. *see* **Donéa, J., 89c:80001**

Lepin, L. A. Countable spectrum of the eigenfunctions of the nonlinear heat equation with distributed parameters. **89g:35021**

Lezaun Iturralde, Mikel A problem with mixed boundary conditions. (Spanish. English summary) **89h:35303**

Lin, Jian-Tong The numerical analysis of a phase field model in moving boundary problems. **89h:65161**

Lorenzi, A. (*with* Pagani, C. D.) On the stability of the surface separating two homogeneous media with different thermal conductivities. **89f:35204**

MacKinnon, R. J. (*with* Carey, G. F.) Analysis of material interface discontinuities and superconvergent fluxes in finite difference theory. **89g:76009**

Manselli, Paolo *see* **Engl, Heinz W.; et al., 89g:35114**

Matano, Hiroshi *see* **Gurtin, Morton E., 89j:49015**

Matveev, N. M. (*with* Nosov, S. L.) Solution of a stationary mass transport equation.

(Russian) **89m:82090**
McFadden, G. B. (*with* Coriell, S. R.; Alexander, J. Iwan D.) Hydrodynamic and free boundary instabilities during crystal growth: the effect of a plane stagnation flow. **89f:76042**
Meinkōhn, D. Disappearance of criticality in nonuniform systems. I. An analytically closed representation of the phenomenon. **89g:35013**
— Disappearance of criticality in nonuniform systems. II. A general investigation by upper and lower bounds. **89g:35014**
Meĭrmanov, A. M. *see* **Anisyutin, B. M., 89f:35214**
Mohamed, Fouad A. Two-phase nonlinear free boundary problems for parabolic equations. **89d:35188**
Mohamed, T. The H-function of several complex variables and the solution of a boundary value problem in heat conduction. (Hindi. English summary) **89f:33010**
Mossino, Jacqueline *see* **Gustafsson, Björn, 89b:35170**
Nambu, T. (*with* Rostamian, R.; Seidman, Thomas I.) Feedback stabilization of a marginally stable heat conduction problem. **89c:93058**
Neittaanmäki, Pekka *see* **Laitinen, Erkki Juhani, 89j:80003**
Nikolaev, I. A. (*with* Sukhinov, A. I.) Additive schemes for the modeling of three-dimensional equations of heat conduction in cylindrical and spherical coordinates. (Russian) **89c:65114**
Nitsche, Johannes M. *see* **Nitsche, Ludwig C.; et al., 89c:35074**
Nitsche, Ludwig C. (*with* Nitsche, Johannes M.; Brenner, Howard) Existence, uniqueness and regularity of a time-periodic probability density distribution arising in a sedimentation-diffusion problem. **89c:35074**
Nochetto, Ricardo H. (*with* Verdi, Claudio) The combined use of a nonlinear Chernoff formula with a regularization procedure for two-phase Stefan problems. **89b:65205**
Nosov, S. L. *see* **Matveev, N. M., 89m:82090**
Olmstead, W. E. *see* **Kriegsmann, Gregory A.**, (Not in MR)
Pagani, C. D. *see* **Lorenzi, A., 89f:35204**
Payne, L. E. On geometric and modeling perturbations in partial differential equations. **89b:35011**
Polubinskiĭ, A. S. *see* **Fushchich, V. I.; et al., 89h:35141**
Polyanin, A. D. *see* **Berman, V. S.**, (Not in MR)
Posashkov, S. A. *see* **Galaktionov, V. A., 89e:35074**
Preziosi, Luigi *see* **Joseph, Daniel D., 89k:80001**
Primicerio, Mario *see* **Kenmochi, Nobuyuki, 89m:49008**
Radkevich, E. V. Conditions for the existence of a transition zone. **89h:35357**
Rakin, S. I. *see* **Kolpakov, A. G., 89c:73057**
Riska, D. O. *see* **Vidberg, H. J.; et al.**, (**89c:00029**)
Rodrigues, José-Francisco A steady-state Boussinesq-Stefan problem with continuous extraction. **89j:76051**
— A unilateral thermoelastic Stefan-type problem. **89i:73074**
Rogers, Colin (*with* Broadbridge, P.) On a nonlinear moving boundary problem with heterogeneity: application of a reciprocal transformation. (French summary) **89a:35230**
Romanov, A. S. (*with* Stytsyna, A. A.) The initial stage in the development of dynamic perturbations in a nonlinearly heat-conducting gas. **89i:76076**
Rostamian, R. *see* **Nambu, T.; et al., 89c:93058**
Rulla, Jim (*with* Showalter, R. E.) Diffusion with prescribed convection in fissured media. **89b:35171**
Saleĭ, S. V. Asymptotic behavior as $t \to \infty$ of the solution of a Stefan problem in a domain with spherical symmetry in the presence of heat sources. (Russian) **89k:35256**
Samarskiĭ, A. A. Mathematical simulation and the theory of nonstationary localized processes. **89j:00050**
— *see also* **Bakirova, M. I.; et al., 89i:35076**
Seidman, Thomas I. *see* **Nambu, T.; et al., 89c:93058**
Shchukina, I. *see* **Vakul′chik, P. A., 89c:80002**
Shil′nikov, E. V. A difference scheme, exact with respect to space, for the one-dimensional heat equation. (Russian) **89c:65101**
Showalter, R. E. (*with* Walkington, Noel J.) A hyperbolic Stefan problem. **89d:35190**
— *see also* **Rulla, Jim, 89b:35171**
Singh Chandel, R. C. (*with* Gupta, Anil) Use of the multivariable H-function of Srivastava and Panda in cooling of a heated cylinder. **89c:33006**
Slyusareva, L. V. *see* **Galitsyn, A. S., 89c:35081**
Solopenko, V. M. The class of exact solvability of an equation of nonlinear moisture transport. (Russian. English summary) **89h:35156**
Starita, Giulio *see* **Iannece, Donatella, 89j:76070**
Steigenberger, Joachim On some linear operators arising in an inverse heating problem. **89h:35346**
Stepanov, A. E. (*with* Kirillova, L. G.) ★ Математическое моделирование процессов выращивания кристаллических полупроводниковых материалов. (Russian) [Mathematical modeling of the growth processes of crystal semiconductor materials] **89f:80001**
Stytsyna, A. A. *see* **Romanov, A. S., 89i:76076**
Sukhinov, A. I. *see* **Nikolaev, I. A., 89c:65114**
Svirshchevskiĭ, S. R. *see* **Bakirova, M. I.; et al., 89i:35076**
Takagi, Shunsuke Approximate analytical solution of a Stefan's problem in a finite domain. **89i:35135**
Tröltzsch, F. *see* **Kaiser, Thomas, 89f:35201**
Tsurko, V. A. (*with* Yakubenya, A. N.) A flow variant of difference schemes for the numerical solution of a problem of Stefan type. (Russian. English summary) **89b:65239**
Urazgil′dina, T. A. *see* **Butuzov, V. F., 89a:35108**
Vakul′chik, P. A. (*with* Shchukina, I.) Convergence of an implicit difference scheme for the pulse heating of a rotating cylindrical body. (Russian. English summary) **89c:80002**
Vázquez, Juan Luis *see* **Herrero, M. A., 89i:35077**
Verba, I. I. (*with* Kolyano, Yu. M.) State of thermal stress and strain of a plate weakened by a rectangular hole. **89f:73011**
Verdi, Claudio *see* **Nochetto, Ricardo H., 89b:65205**
Vidberg, H. J. (*with* Jaarinen, J.; Riska, D. O.) A thermal inversion problem. (*see* **89c:00029**)
Vinogradov, I. S. *see* **Belonogov, E. K.; et al., 89k:80002**
Visintin, A. Surface tension effects in phase transition. **89m:82021**
Walkington, Noel J. *see* **Showalter, R. E., 89d:35190**
Willis, J. R. *see* **Hill, J. M., 89f:73007**
Xie, Wei Qing A one-phase Stefan problem with two free boundaries. (Chinese) **89h:35359**
Yakubenya, A. N. *see* **Tsurko, V. A., 89b:65239**
Yang, Dan Ping Boundary finite element method for heat conduction equation. **89h:80002**
Zatsepin, A. Yu. *see* **Belonogov, E. K., 89j:80001** *and* **89k:80002**
Zhao, Yue Yu An approximation method based on a new variational principle. (Chinese. English summary) **89k:70028**
Zhukovskiĭ, A. N. *see* **Galitsyn, A. S.; et al., 89g:76007**
Zolésio, J.-P. *see* **Cannarsa, Piermarco; et al., 89m:49047**

80A25 Combustion, interior ballistics

Adler, Jack (*with* Herbert, D. M.) Addendum: "A criticality criterion for thermal explosions in well-stirred systems with reactant consumption" [IMA J. Appl. Math. **35** (1985), no. 1, 55–70; MR 87c:80019]. **89m:80008**
— The minimum local temperature disturbance for ignition in a slab. **89g:80008**
Baum, Howard R. *see* **Rehm, Ronald G.; et al.**, (**89f:76002**)
Bayliss, Alvin (*with* Matkowsky, B. J.; Minkoff, M.) Bistable cellular flames. (*see* **89f:76002**)
— (*with* Matkowsky, B. J.; Minkoff, M.) Adaptive pseudo-spectral computation of cellular flames stabilized by a point source. (Not in MR)
Benkhaldoun, F. (*with* Larrouturou, B.) Numerical analysis of the two-dimensional thermodiffusive model for flame propagation. (French summary) **89m:80009**
Bilger, R. W. Turbulent diffusion flames. (*see* **89g:76002**)
Boorkina, R. S. *see* **Vilyunov, V. N., 89a:80006**
Booty, M. R. (*with* Matalon, M.; Matkowsky, B. J.) A nonlinear wave equation in nonadiabatic flame propagation. **89c:80016**
(Buckmaster, J. D.) *see* **Mathematical modeling in combustion science, 89b:80008**
Bukiet, Bruce Application of front tracking to two-dimensional curved detonation fronts. **89c:80017**
Butuzov, V. F. (*with* Kalachëv, L. V.) Asymptotics of the solution of a problem of combustion in the case of an autocatalytic reaction. (Russian) **89c:80018**
Chéret, Roger Représentation quasi polytropique de la surface d'état des produits de détonation d'un explosif condensé. (English summary) [Quasipolytropic representation of the equation of state of the detonation products of a condensed explosive] **89m:80010**
Dold, J. W. Analysis of thermal runaway in the ignition process. **89m:80011**
Embid, Pedro The initial value problem for the nonlinear equations for zero Mach number combustion. **89c:80019**
Frankel, Michael L. (*with* Sivashinsky, G. I.) On the equation of a curved flame front. **89f:80008**
Gardner, Robert A. On an asymptotic model for Mach stem formation in planar detonations. **89e:80010**
Hastings, S. P. (*with* Lu, Chun Qing; Wan, Yieh Hei) Existence of a traveling flame front in a model with no cold boundary difficulty. **89c:80020**
Herbert, D. M. *see* **Adler, Jack, 89m:80008**
Il′inskiĭ, N. B. Solution of an inverse boundary value problem of blast in a modified solid-fluid model. (Russian) **89f:80009**
Kalachëv, L. V. *see* **Butuzov, V. F., 89c:80018**
Kaper, Hans G. (*with* Leaf, G. K.; Matkowsky, B. J.; Olmstead, W. E.) Dynamics of nonadiabatic premixed flames in a gravitational field. **89b:80007**
Larrouturou, B. The equations of one-dimensional unsteady flame propagation: existence and uniqueness. **89i:80002**
— *see also* **Benkhaldoun, F., 89m:80009**
Lasseigne, D. Glenn (*with* Olmstead, W. E.) Ignition of a combustible solid with reactant consumption. **89a:80004**
Leaf, G. K. *see* **Kaper, Hans G.; et al., 89b:80007**
Logan, J. David Model solutions of the Wood-Kirkwood equations. **89a:80005**
Lozier, Daniel W. *see* **Rehm, Ronald G.; et al.**, (**89f:76002**)
Lu, Chun Qing *see* **Hastings, S. P.; et al., 89c:80020**
Margolis, Stephen B. (*with* Matkowsky, B. J.) New modes of quasiperiodic combustion near a degenerate Hopf bifurcation point. **89f:80010**
Matalon, M. *see* **Booty, M. R.; et al., 89c:80016**
Matkowsky, B. J. *see* **Kaper, Hans G.; et al., 89b:80007**; **Booty, M. R.; et al., 89c:80016**; **Margolis, Stephen B., 89f:80010**; **Bayliss, Alvin; et al.**, (Not in MR) *and* (**89f:76002**)
Minkoff, M. *see* **Bayliss, Alvin; et al.**, (Not in MR) *and* (**89f:76002**)
Mitrofanov, V. V. Nonclassical detonation and deflagration waves. (Russian) **89e:80011**
Narayanan, R. *see* **Pushpavanam, S., 89k:80022**
Norbury, John (*with* Stuart, A. M.) Parabolic free boundary problems arising in porous medium combustion. **89m:80012**
Olmstead, W. E. *see* **Lasseigne, D. Glenn, 89a:80004** *and* **Kaper, Hans G.; et al., 89b:80007**
Osher, Stanley (*with* Sethian, James) Fronts propagating with curvature-dependent speed: algorithms based on Hamilton-Jacobi formulations. **89h:80012**
Peláez, J. Stability of premixed flames with two thin reaction layers. **89c:80021**
Pushpavanam, S. (*with* Narayanan, R.) Comparison results for ignition in conjugate systems. **89k:80022**
Rehm, Ronald G. (*with* Baum, Howard R.; Lozier, Daniel W.) Diffusion-controlled reaction in a vortex field. (*see* **89f:76002**)
Rosencrans, Steven I. On Amundson's model of the unsteady combustion of a slab of carbon. **89e:80012**
Sethian, James *see* **Osher, Stanley, 89h:80012**
Sivashinsky, G. I. *see* **Frankel, Michael L., 89f:80008**
Stuart, A. M. The mathematics of porous medium combustion. **89h:80013**
— *see also* **Norbury, John, 89m:80012**
(Takeno, T.) *see* **Mathematical modeling in combustion science, 89b:80008**
Tam, K. Kuen Travelling wave solutions for rich flames of reactive suspensions. **89i:80003**
— The temporal evolution of a system in combustion theory. II. **89j:80015**
Vilyunov, V. N. (*with* Boorkina, R. S.) Method of matching asymptotic expansions in the theory of ignition. **89a:80006**
Wan, Yieh Hei *see* **Hastings, S. P.; et al., 89c:80020**

ems listed otherwise than by author

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Mathematical Modeling in Combustion Science ★ Mathematical modeling in combustion science. **89b:80008**

neau, AK ★ Mathematical modeling in combustion science. **89b:80008**

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hossat, P. (*with* Golubitsky, M.; Keyfitz, Barbara Lee) Hopf-Hopf mode interactions with O(2) symmetry. **89b:58147**

berly, D. Nonexistence for the Kassoy problem in dimensions 1 and 2. **89g:35051**

ickett, Wildon A mathematical problem from detonation theory. **89k:76070**

rankel, Michael L. On the nonlinear evolution of a solid-liquid interface. **89b:80004**

olubitsky, M. *see* **Chossat, P.; et al., 89b:58147**

einze, Steffen Traveling waves in combustion processes with complex chemical networks. **89g:35048**

eyfitz, Barbara Lee *see* **Chossat, P.; et al., 89b:58147**

ulikovskiĭ, A. G. Strong discontinuities in flows of continua and their structure. (Russian) **89k:76001**

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(*with* Stuart, A. M.) Travelling combustion waves in a porous medium. II. Stability. **89e:80014**

sher, Stanley *see* **Sethian, James**, (**89j:35007**)

ope, S. B. The evolution of surfaces in turbulence. **89c:76073**

icci, Riccardo (*with* Stampella, Mirta) A free boundary problem in combustion of solid material. (Russian and Polish summaries) **89j:35133**

ethian, James (*with* Osher, Stanley) The design of algorithms for hypersurfaces moving with curvature-dependent speed. (*see* **89j:35007**)

takgold, I. Partial extinction in reaction-diffusion. **89j:35070**

tampella, Mirta *see* **Ricci, Riccardo, 89j:35133**

tuart, A. M. *see* **Norbury, John, 89e:80013** *and* **89e:80014**

eng, Zhen Huan *see* **Ying, Long An, 89c:35146**

erman, David Traveling wave solutions arising from a two-step combustion model. **89j:35071**

ing, Long An (*with* Teng, Zhen Huan) Global existence theorems for solutions with detonations and deflagrations. **89c:35146**

hizhin, G. V. Autowave processes in the propagation of chemical reactions in dispersed media. (Russian) **89k:80030**

0A30 Chemical kinetics [see also 92A09, 92A40]

lumen, A. (*with* Zumofen, G.; Klafter, J.) Fractal concepts in reaction kinetics. **89g:80009**

urlatskiĭ, S. F. (*with* Pronin, K. A.) Metastable states in diffusion-controlled processes. **89k:80023**

lavin, Paul Diffuse interfaces. (*see* **89f:76003**)

e Dier, Bart (*with* Roose, Dirk) Determination of bifurcation points and catastrophes for the Brusselator model with two parameters. **89g:80010**

lenin, G. G. (*with* Kurkina, E. S.) Multiplicity of steady states in a nonideal model for a heterogeneous-catalytic reaction. (Russian) **89d:80022**

reller, Larry D. *see* **Samardzija, Nikola; et al., 89k:80026**

anova, A. N. *see* **Vol′pert, A. I., 89d:80024**

lafter, J. *see* **Blumen, A.; et al., 89g:80009**

urkina, E. S. *see* **Elenin, G. G., 89d:80022**

ushnikov, A. A. Random factors in chemical kinetics. (Russian) **89k:80024**

asavetas, K. A. Mathematical properties common in all mechanism models of chemical reactions. **89j:80016**

ason, D. P. *see* **McIlroy, Douglas K., 89f:80011**

cIlroy, Douglas K. (*with* Mason, D. P.) The concept of streamfunctions in the Wien effect on a weak electrolyte. **89f:80011**

ecozzi, A. (*with* de Pasquale, F.; Peliti, Luca) Unified approach to stochastic representations in reaction kinetics. (Italian and Russian summaries) **89d:80023**

einkӧhn, D. Criticality of an exothermic reaction-diffusion system of *n*th-order. (*see* **89g:58004**)

iemi, Antti J. Variable parameter model of the continuous flow vessel. (*see* **89d:00007**)

orbury, John (*with* Stuart, A. M.) Travelling combustion waves in a porous medium. I. Existence. **89e:80013**

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e Pasquale, F. *see* **Mecozzi, A.; et al., 89d:80023**

eliti, Luca *see* **Mecozzi, A.; et al., 89d:80023**

ollett, P. K. On the problem of evaluating quasistationary distributions for open reaction schemes. **89k:80025**

rival′skiĭ, V. B. (*with* Time, I. V.) On the construction of the kinetic function in the theory of the equations of macrodynamics. (Russian. English summary) **89a:80007**

ronin, K. A. *see* **Burlatskiĭ, S. F., 89k:80023**

oose, Dirk *see* **De Dier, Bart, 89g:80010**

amardzija, Nikola (*with* Greller, Larry D.; Wasserman, E.) Nonlinear chemical kinetic schemes derived from mechanical and electrical dynamical systems. **89k:80026**

tuart, A. M. *see* **Norbury, John, 89e:80013** *and* **89e:80014**

ime, I. V. *see* **Prival′skiĭ, V. B., 89a:80007**

irapegui, E. (*with* Van den Broeck, C.) A thermochemical instability. II. Inhomogeneous fluctuations. **89m:80013**

an den Broeck, C. *see* **Tirapegui, E., 89m:80013**

ol′pert, A. I. (*with* Ivanova, A. N.) Mathematical models in chemical kinetics. (Russian) **89d:80024**

asserman, E. *see* **Samardzija, Nikola; et al., 89k:80026**

umofen, G. *see* **Blumen, A.; et al., 89g:80009**

Items with secondary classifications in 80A30

Albahadily, F. N. (*with* Ringland, John; Schell, Mark) Mixed-mode oscillations in an electrochemical system. I. A Farey sequence which does not occur on a torus. **89k:58001**

— *see also* **Schell, Mark, 89k:58002**

Argoul, F. *see* **Arneodo, A.; et al., 89d:92089**

Arneodo, A. (*with* Argoul, F.; Richetti, P.; Roux, J. C.) The Belousov-Zhabotinskiĭ reaction: a paradigm for theoretical studies of dynamical systems. **89d:92089**

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Dittrich, P. A stochastic model of a chemical reaction with diffusion. **89k:60156**

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Lu, Chun Qing *see* **Hastings, S. P.; et al., 89c:80020**

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Molchanov, S. A. *see* **Zel′dovich, Ya. B.; et al., 89b:82059** *and* **89c:82038**

Phillipson, Paul E. *see* **Di Cera, Enrico; et al., 89f:92013**

Pugh, S. *see* **Ross, John; et al.**, (**89g:92002**)

Richetti, P. *see* **Arneodo, A.; et al., 89d:92089**

Ringland, John *see* **Albahadily, F. N.; et al., 89k:58001**

Roberts, M. J. *see* **Gray, B. F., 89d:92017; 89h:58143** *and* **89h:58144**

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Ruzmaĭkin, A. A. *see* **Zel′dovich, Ya. B.; et al., 89b:82059** *and* **89c:82038**

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Scott, J. M. W. *see* **Summers, Danny, 89i:92079**

Sokolov, D. D. *see* **Zel′dovich, Ya. B.; et al., 89b:82059** *and* **89c:82038**

Stakgold, I. Partial extinction in reaction-diffusion. **89j:35070**

Stephens, A. B. *see* **Aziz, A. K.; et al., 89e:65116**

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Suri, Manil *see* **Aziz, A. K.; et al., 89e:65116**

Tam, K. Kuen Travelling wave solutions for rich flames of reactive suspensions. **89i:80003**

Torquato, S. *see* **Rubinstein, Jacob, 89c:92106**

Tóth, J. Structure of the state space in stochastic kinetics. **89k:60104**

Tzavaras, A. E. *see* **Friedman, Avner, 89g:35052**

Wan, Yieh Hei *see* **Hastings, S. P.; et al., 89c:80020**

Westcott, M. *see* **Gates, D. J., 89e:82010a** *and* **89e:82010b**

Wiener, Joseph *see* **Marmasse, Claude, 89h:92029**

Wyman, Jeffries *see* **Di Cera, Enrico; et al., 89f:92013**

Zel′dovich, Ya. B. (*with* Molchanov, S. A.; Ruzmaĭkin, A. A.; Sokolov, D. D.) Self-excitation of a nonlinear scalar field in a random medium. **89c:82038**

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80A32 Chemically reacting flows [see also 92A09, 92A40]

Bandle, C. (*with* Stakgold, I.) Reaction-diffusion and dead cores. **89g:80011**

Bass, Jon M. (*with* Oden, J. T.) Adaptive computational methods for chemically-reacting radiative flows. **89h:80014**

Bérces, T. *see* **Turányi, T.; et al., 89k:80029**

Bisbis, B. Youssef *see* **Retzloff, David G.; et al.**, (**89d:00007**)

Bogdanov, A. V. (*with* Tiganov, I. I.) On a problem of initial slip for a chemically reacting gas. **89e:80015**

Brazhnik, P. K. (*with* Davydov, V. A.; Mikhaĭlov, A. S.) A kinematic approach to the description of autowave processes in active media. **89g:80012**

Brechet, Y. (*with* Kirkaldy, J. S.) Contribution to the theory of diffusion-reaction controlled Liesegang patterns. **89k:80027**

Cao, Li *see* **Wu, Da Jin, 89f:80013**

Chan, Paul C.-H. *see* **Retzloff, David G.; et al.**, (**89d:00007**)

Davydov, V. A. *see* **Brazhnik, P. K.; et al., 89g:80012**

Ermakov, A. E. *see* **Vasil′ev, A. V.; et al., 89d:80025**

Haario, H. (*with* Seidman, Thomas I.) Reaction and diffusion at a gas/liquid interface. **89m:80014**

Hagan, P. S. (*with* Herskowitz, M.; Pirkle, C.) Runaway in highly sensitive tubular reactors. **89j:80017**

Herskowitz, M. *see* **Hagan, P. S.; et al., 89j:80017**

Horsthemke, Werner *see* **Pearson, John E., 89k:80028**

Hu, Gang Stochastic properties of stationary solutions of multivariable master equations. (Chinese. English summary) **89j:80018**

Hussaini, M. Y. *see* **Macaraeg, Michèle G.; et al., (89j:65010)**

Kirkaldy, J. S. *see* **Brechet, Y., 89k:80027**

Kolesnichenko, A. V. Equations of the mixed convection of a multicomponent reacting gas medium in the Oberbeck-Boussinesq approximation. (Russian) **89c:80022**

Kolosov, A. I. *see* **Vasil'ev, A. V.; et al., 89d:80025**

Kolosova, S. V. *see* **Vasil'ev, A. V.; et al., 89d:80025**

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Majda, A. (*with* Rosales, R.) Nonlinear mean field-high frequency wave interactions in the induction zone. **89c:80023**

Marchenko, G. N. *see* **Lyubchenko, V. I.**, (Not in MR)

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Mikhaĭlov, A. S. *see* **Brazhnik, P. K.; et al., 89g:80012**

Nitzan, Abraham *see* **Matkowsky, B. J.; et al., 89c:80024**

Oden, J. T. *see* **Bass, Jon M., 89h:80014**

Parra, Ignacio E. (*with* Vega, José M.) Local nonlinear stability of the steady state in an isothermal catalyst. **89f:80012**

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Pirkle, C. *see* **Hagan, P. S.; et al., 89j:80017**

Retzloff, David G. (*with* Chan, Paul C.-H.; Bisbis, B. Youssef) Sequential bifurcations, maximum multiplicity, and chaos for a first order reaction. (*see* **89d:00007**)

Rosales, R. *see* **Majda, A., 89c:80023**

Roumpani-Kalantzopoulou, F. *see* **Masavetas, K. A., 89j:80019**

Schöffel, St. U. Nonlinear resonance phenomena for the Euler-equations coupled with chemical reaction-kinetics. (*see* **89j:35007**)

Schuss, Z. *see* **Matkowsky, B. J.; et al., 89c:80024**

Seidman, Thomas I. *see* **Haario, H., 89m:80014**

Sen, Asok K. Asymptotic structure of a steady planar reactive infiltration interface. **89e:80016**

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Stakgold, I. *see* **Bandle, C., 89g:80011**

Streett, Craig L. *see* **Macaraeg, Michèle G.; et al., (89j:65010)**

Tiganov, I. I. *see* **Bogdanov, A. V., 89e:80015**

Torrisi, M. Similarity solutions and wave propagation in a reactive polytropic gas. **89e:80017**

Tóth, J. *see* **Turányi, T.; et al., 89k:80029**

Turányi, T. (*with* Bérces, T.; Tóth, J.) The method of quasi-stationary sensitivity analysis. **89k:80029**

Vasil'ev, A. V. (*with* Ermakov, A. E.; Kolosova, S. V.; Kolosov, A. I.) A problem of the theory of chemical reactions. (Russian) **89d:80025**

Vega, José M. *see* **Parra, Ignacio E., 89f:80012**

Vladimirov, V. A. ★ Групповая классификация уравнений гидродинамики реагирующих и релаксирующих сред. (Russian) [Group-theoretic classification of equations of hydrodynamics of reacting and relaxing media] **89e:80018**

Wang, Ming Xin^2 *see* **Ye, Qi Xiao, 89e:80019**

Wu, Da Jin (*with* Cao, Li) A quasithermodynamic analysis of nonequilibrium fluid-fluid reaction interfaces. (Chinese. English summary) **89f:80013**

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Brauner, Claude-Michel *see* **Bandle, C., 89f:35025**

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(Burger, Mária) *see* **Oscillations and traveling waves in chemical systems, 89f:92003**

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Chicone, Carmen *see* **Retzloff, David G.; et al., 89g:58042**

Dangelmayr, G. *see* **Armbruster, D., 89a:58079**

Dewel, G. *see* **Borckmans, P., (89g:92002)**

(Fed'kina, V. R.) *see* **Oscillations and traveling waves in chemical systems, 89f:92003**

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Kawasaki, Kyozi *see* **Ohta, Takao, 89i:76050**

Kubota, Hiroshi *see* **Wada, Y.; et al., (89j:35007)**

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Nazaretov, V. M. *see* **Mochalov, V. I.; et al.**, (Not in MR)

Neklyudov, P. A. *see* **Mochalov, V. I.; et al.**, (Not in MR)

Noyes, Richard M. *see* **Bowers, Peter, (89f:92003)**

Offin, D. *see* **Retzloff, David G.; et al., 89g:58042**

Ogawa, Satoru *see* **Wada, Y.; et al., (89j:35007)**

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(Zhabotinskiĭ, A. M.) *see* **Oscillations and traveling waves in chemical systems, 89f:92003**

Items listed otherwise than by author

Oscillations and traveling waves in chemical systems ★ Колебания и бегущие волны в химических системах. (Russian) [Oscillations and traveling waves in chemical systems] **89f:92003**

80A50 Chemistry (general)

Peng, Sheng Yu An application of linear algebra to chemical equations. (Chinese) (Not in MR)

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(Skagerstam, Bo-Sture) *see* **Unification of fundamental interactions, 89f:81005**
(Smirnov, Vladimir Aleksandrovich[3]) *see* **Collins, John C., 89d:81072**
Soffer, A. *see* **Sigal, Israel M., 89h:81248**
Suz'ko, A. A. *see* **Zakhar'ev, B. N., 89e:81177**
Tasaki, Hal *see* **Hara, Takashi; et al., 89e:81082**
Tyuterev, Vl. G. *see* **Zhilinskiĭ, B. I.; et al., 89f:81277**
Weinstein, Marvin *see* **Nemeschansky, Dennis; et al., 89h:81077**
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81–03 Historical (must also be assigned at least one classification number from Section 01)

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Ardini, James *see* **Kidd, Richard; et al., 89j:81002**
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(Boltzmann, Ludwig) *see* **Flamm, Dieter, (89m:01069)**
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(Boltzmann, Ludwig) *see* **von Plato, Jan, 89d:01052**
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Halpern, Leopold Observations of two of our brightest stars. **89m:01061**
(Heisenberg, Werner) *see* **Mehra, Jagdish, 89g:01039**
Hoffmann, Dieter Max Planck—teacher, organizer and popularizer of science. (Russian) **89c:01066**
Holcomb, Harmon R., III Latency versus complementarity: Margenau and Bohr on quantum mechanics. **89f:81011**
Johnson, Gerald W. Feynman's paper revisited. **89e:81044**

(Kilmister, C. W.) *see* **Schrödinger, 89m:01069**
Majorana, Ettore ★ Lezioni all'Università di Napoli. (Italian) [Lectures at the University of Naples] **89m:01141**
(Margenau, Henry) *see* **Holcomb, Harmon R., III, 89f:81011**
Markov, M. A. On a letter of N. Bohr. (Russian) **89c:01034**
McCrea, William Eamon de Valera, Erwin Schrödinger and the Dublin Institute. (*see* **89m:01069**)
Mehra, Jagdish (*with* Rechenberg, Helmut) ★ The historical development of quantum theory. Vol. 5. **89e:01037**
— Niels Bohr's discussions with Albert Einstein, Werner Heisenberg, and Erwin Schrödinger: the origins of the principles of uncertainty and complementarity. **89g:01039**
— Erwin Schrödinger and the rise of wave mechanics. I. Schrödinger's scientific work before the creation of wave mechanics. **89h:01073a**
— Erwin Schrödinger and the rise of wave mechanics. II. The creation of wave mechanics. **89h:01073b**
— Erwin Schrödinger and the rise of wave mechanics. III. Early response and applications. **89h:01073c**
(Mignani, Roberto) *see* **Caldirola, Piero, 89h:01104**
(von Mises, Richard) *see* **von Plato, Jan, 89d:01052**
Mukunda, N. The mathematical style of modern physics. **89f:00041**
Naumov, A. I. The formation of modern quantum field theory. (Russian) **89c:01035**
Nugaev, R. M. Special relativity as a stage in the development of quantum theory. A new outlook of scientific revolution. **89m:01063**
Pais, Abraham ★ "Sottile è il Signore...". (Italian) ["Subtle is the Lord..."] **89f:01074**
Penrose, Roger On the origins of twistor theory. **89i:32060**
(Planck, Max) *see* **Grigor′yan, A. T., 89c:01063** *and* **Hoffmann, Dieter, 89c:01066**
von Plato, Jan Probabilistic physics the classical way. **89d:01052**
(Preziosi, Bruno) *see* **Majorana, Ettore, 89m:01141**
Primas, Hans ★ Chemistry, quantum mechanics and reductionism. **89k:81004**
(Recami, Erasmo) *see* **Caldirola, Piero, 89h:01104** *and* **Majorana, Ettore, 89m:01141**
Rechenberg, Helmut *see* **Mehra, Jagdish, 89e:01037**
(Ricci, Renato Angelo) *see* **Majorana, Ettore, 89m:01141**
(Santilli, Ruggero M.) *see* **Caldirola, Piero, 89h:01104**
Schrödinger, Erwin *see* **Bose, S. N.; et al., 89b:01075; Mehra, Jagdish, 89e:01037; 89g:01039; 89h:01073a; 89h:01073b; 89h:01073c; Schrödinger, 89m:01069; Zambrini, J.-C., (89e:81003)** *and* **McCrea, William, (89m:01069)**
Skyrme, Tony Hilton Royle The origins of Skyrmions. (Not in MR)
— *see also* **Goldhaber, Alfred S.,** (Not in MR) *and* **Dalitz, R. H.,** (Not in MR)
Smorodinskiĭ, Ya. S. (*with* Tamm, I. E.) Some episodes. **89h:01051**
Tamm, I. E. *see* **Smorodinskiĭ, Ya. S., 89h:01051** *and* **Frenkel′, V. Ya., 89h:01050**
Treder, H.-J. (*with* von Borzeszkowski, Horst-Heino) Interference and interaction in Schrödinger's wave mechanics. **89f:81016**
(de Valera, Eamon) *see* **McCrea, William, (89m:01069)**
(Weyl, Hermann) *see* **Yang, Chen Ning, (89a:01046)**
Yang, Chen Ning Hermann Weyl's contribution to physics. (*see* **89a:01046**)
Zambrini, J.-C. Probability in quantum mechanics according to E. Schrödinger. (*see* **89e:81003**)

Items listed otherwise than by author

Anniversary:
Birth of Planck, Max *see* **Grigor′yan, A. T., 89c:01063**
Birth of Schrödinger, Erwin ★ Schrödinger. **89m:01069**
Bibliography:
Majorana, Ettore *see* **Majorana, Ettore, 89m:01141**
Skyrme, Tony Hilton Royle *see* **Goldhaber, Alfred S.,** (Not in MR)
Biography:
Caldirola, Piero *see* **Caldirola, Piero, 89h:01104**
Einstein, Albert *see* **Pais, Abraham, 89f:01074**
Majorana, Ettore *see* **Majorana, Ettore, 89m:01141**
Planck, Max *see* **Grigor′yan, A. T., 89c:01063**
Conference:
Schrödinger ★ Schrödinger. **89m:01069**
Correspondence:
Bohr, Niels–Markov, M. A. *see* **Markov, M. A., 89c:01034**
London ★ Schrödinger. **89m:01069**
Obituary:
Skyrme, Tony Hilton Royle *see* **Goldhaber, Alfred S.,** (Not in MR)
Schrödinger ★ Schrödinger. **89m:01069**

81–04 Explicit machine computation and programs (not the theory of computation or programming)

Ezra, Gregory S. *see* **Fried, Laurence E., 89j:81003**
Fried, Laurence E. (*with* Ezra, Gregory S.) PERTURB: a program for calculating vibrational energies by generalized algebraic quantization. **89j:81003**
Pacheco, J. M. *see* **Yannouleas, C.,** (Not in MR)
Sage, Martin L. An algebraic treatment of quantum vibrations using REDUCE. (Not in MR)
— Erratum: "An algebraic treatment of quantum vibrations using REDUCE" [J. Symbolic Comput. 5 (1988), no. 3, 377–384]. (Not in MR)
Sibert, Edwin L., III VANVLK: an algebraic manipulation program for canonical Van Vleck perturbation theory. (*see* **89f:81008**)
Wintgen, Dieter Semiclassical path-integral quantization of nonintegrable Hamiltonian systems. **89h:81004**
Yannouleas, C. (*with* Pacheco, J. M.) An algebraic program for the states associated with the $U(5) \supset O(5) \supset O(3)$ chain of groups. (Not in MR)

Items with secondary classifications in 81–04

Amir-Azizi, Siamak (*with* Hey, Anthony J. G.; Morris, T. R.) Quantum fractals. **89c:81045**
van Baal, P. (*with* Koller, Jeffrey) QCD on a torus, and electric flux energies from tunneling. **89b:81239**
Baier, R. (*with* Lang, C. B.; Reusch, H.-J.) The renormalization flow in the adjoint SU(2) lattice Higgs model. (Not in MR)
Baker, George A., Jr. (*with* Johnson, James Daniel) Four-dimensional boson field theory. III. Nontriviality. **89g:81038**
Belova, T. I. (*with* Kudryavtsev, A. E.) Quasi-periodic orbits in the scalar classical $\lambda\varphi^4$ field theory. (Not in MR)
Bernreuther, W. (*with* Göckeler, M.) Renormalization group and finite size effects in scalar lattice field theories. **89c:81090**
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Berry, M. V. (*with* Mondragon, R. J.) Neutrino billiards: time-reversal symmetry-breaking without magnetic fields. **89f:81064**
Bitar, Khalil M. Partition function for finite-temperature lattice SU(2) gauge theory. A novel investigation of the phase transition. **89d:81081**
Bogomol′nyĭ, E. B. Smoothed wave functions of chaotic quantum systems. **89h:81062**
Brickmann, Jürgen *see* **Yurtsever, Ersin, 89j:81071**
Čížek, Jiří Karel *see* **Vinette, F., 89j:81279**
Demiralp, M. *see* **Taşeli, H., 89j:81033**
Dewdney, C. Nonlocally correlated trajectories in two-particle quantum mechanics. **89i:81009**
Eyre, D. (*with* Wright, C. J.) Adaptive mesh grading for finite element solutions of an integral equation in quantum scattering. **89b:81236**
de Falco, Diego (*with* Pulignano, Eugenio) Sample paths in stochastic mechanics: some numerical exercises. (Portuguese summary) **89a:81026**
Gerry, Christopher C. (*with* Ma, Philip K.; Vrscay, E. R.) Dynamics of SU(1, 1) coherent states driven by a damped harmonic oscillator. **89j:81082**
Göckeler, M. Geometrical methods in the study of topological effects on the lattice. **89k:81117**
— *see also* **Bernreuther, W., 89c:81090** *and* **89c:81091**
Grose, Ted (*with* Milton, Kimball A.) Schwinger model on a finite-element lattice. **89c:81094**
Hey, Anthony J. G. (*with* Merlin, John H.; Ricketts, Martin William; Vaughn, Michael T.; Williams, David C.) Topological solutions in gauge theory and their computer graphic representation. (Not in MR)
— *see also* **Amir-Azizi, Siamak; et al., 89c:81045**
Hodgson, R. J. W. High-precision calculation of the eigenvalues for the $x^2 + \lambda x^2/(1 + gx^2)$ potential. **89e:81030**
— Generating phase-equivalent potentials. **89j:81235**
Ishida, Kazuhiro Exact method for nonlinear fermions on finite lattice: two dimensions. **89h:81152**
Johnson, James Daniel *see* **Baker, George A., Jr., 89g:81038**
Killingbeck, J. The rotating oscillator. **89c:81033**
Kobeissi, Hafez (*with* Kobeissi, Majida) A new variable step method for the numerical integration of the one-dimensional Schrödinger equation. **89j:81030**
Kobeissi, Majida *see* **Kobeissi, Hafez, 89j:81030**
Koibuchi, Hiroshi (*with* Yamada, Mitsuru) Holonomy and lattice simulation of topologically nontrivial gauge fields. **89m:81121**
Koller, Jeffrey *see* **van Baal, P., 89b:81239**
Kremer, Manfred *see* **Bernreuther, W.; et al., 89c:81091**
Kudryavtsev, A. E. *see* **Belova, T. I.,** (Not in MR)
Lang, C. B. *see* **Baier, R.; et al.,** (Not in MR)
Lavelle, M. J. *see* **Tuite, M. P., 89c:81096**
Leiber, T. *see* **Scherrer, H.; et al., 89i:81022**
Lüscher, M. (*with* Weisz, P.) Application of the linked cluster expansion to the n-component φ^4 theory. **89e:81128**
Ma, Philip K. *see* **Gerry, Christopher C.; et al., 89j:81082**
Manton, N. S. Monopole and skyrmion bound states. **89h:81255**
Merlin, John H. *see* **Hey, Anthony J. G.; et al.,** (Not in MR)
Michael, C. (*with* Teper, M.) Universality and scaling in SU(2) lattice gauge theory. (Not in MR)
Milton, Kimball A. *see* **Grose, Ted, 89c:81094**
Mondragon, R. J. *see* **Berry, M. V., 89f:81064**
Morris, T. R. *see* **Amir-Azizi, Siamak; et al., 89c:81045**
Pertermann, D. (*with* Ranft, J.) Study of $Z(n)$ gauge theories on a three-dimensional pseudorandom lattice. **89f:81144**
Pulignano, Eugenio *see* **de Falco, Diego, 89a:81026**
Puzynin, I. V. *see* **Zhanlav, T.; et al., 89k:81186**
Rakit·skiĭ, A. V. *see* **Zhanlav, T.; et al., 89k:81186**
Ranft, J. *see* **Pertermann, D., 89f:81144**
Reusch, H.-J. *see* **Baier, R.; et al.,** (Not in MR)
Ricketts, Martin William *see* **Hey, Anthony J. G.; et al.,** (Not in MR)
Risken, H. *see* **Scherrer, H.; et al., 89i:81022**
Saxena, R. P. (*with* Srivastava, P. K.; Varma, V. S.) An example of a quantum catastrophe. **89f:81233**
Scherrer, H. (*with* Risken, H.; Leiber, T.) Eigenvalues of the Schrödinger equation with rational potentials. **89i:81022**
Srivastava, P. K. *see* **Saxena, R. P.; et al., 89f:81233**
Strandberg, M. W. P. One-dimensional band dispersion relations in terms of SU(2) representations. **89i:81039**
Taşeli, H. (*with* Demiralp, M.) Studies on algebraic methods to solve linear eigenvalue problems: generalised anharmonic oscillators. **89j:81033**
Teper, M. *see* **Michael, C.,** (Not in MR)
Tuite, M. P. (*with* Lavelle, M. J.) Stochastic quantisation and gauge fixing for nonabelian lattice gauge theories. **89c:81096**
Varma, V. S. *see* **Saxena, R. P.; et al., 89f:81233**
Vaughn, Michael T. *see* **Hey, Anthony J. G.; et al.,** (Not in MR)
Vinette, F. (*with* Čížek, Jiří Karel) Perturbation energy expansion using hypervirial theorem and symbolic computation for the N-dimensional hydrogen atom in an external

spherically symmetric field. **89j:81279**

Vrscay, E. R. *see* **Gerry, Christopher C.; et al., 89j:81082**

Weisz, P. *see* **Lüscher, M., 89e:81128**

Williams, David C. *see* **Hey, Anthony J. G.; et al.,** (Not in MR)

Wright, C. J. *see* **Eyre, D., 89b:81236**

Yamada, Mitsuru *see* **Koibuchi, Hiroshi, 89m:81121**

Yurtsever, Ersin (*with* Brickmann, Jürgen) Computationally induced "irregularity" in the spectra of integrable quantum systems. **89j:81071**

Zhanlav, T. (*with* Puzynin, I. V.; Rakit·skiĭ, A. V.) ★ Схема сплайн-коллокации для численного решения одноканальной задачи рассеяния. (Russian) [A spline-collocation scheme for the numerical solution of a one-channel scattering problem] **89k:81186**

Znojil, M. Vectorial continued fractions and an algebraic construction of effective Hamiltonians. **89m:81043**

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Croca, J. R. Can the existence of de Broglie's empty wave be proven experimentally? (*see* **89j:81004**)

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Sasaki, Toku *see* **Koh, Yujiro, (89j:81004)**

Tixier, M. H. EPR experiments using the reaction $J/\psi \to \Lambda\bar{\Lambda}$ with the DM2 collaboration. (*see* **89j:81004**)

Walther, Herbert *see* **Hellmuth, T.; et al., (89j:81004)**

Zajonc, Arthur G. *see* **Hellmuth, T.; et al., (89j:81004)**

Items with secondary classifications in 81–05

Cantelaube, Yves Light amplification behind a beam splitter, nonlocality and interpretation of quantum mechanics. **89m:81009**

Duncan, A. J. Tests of Bell's inequality and the no-enhancement hypothesis using an atomic hydrogen source. **89k:81007**

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Jagatap, B. N. *see* **Lawande, S. V., 89a:81184**

Lawande, S. V. (*with* Jagatap, B. N.) Violation of the Cauchy-Schwarz inequality in cooperative optical double resonance. **89a:81184**

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Mandel, L. *see* **Ou, Z. Y., 89e:81008**

Ou, Z. Y. (*with* Mandel, L.) Violation of Bell's inequality and classical probability in a two-photon correlation experiment. **89e:81008**

Zeilinger, Anton *see* **Horne, Michael A., 89m:81017**

81–06 Proceedings, conferences, etc.

(Accardi, Luigi) *see* **Quantum probability and applications, 89i:81004**

(Baaquie, Belal E.) *see* **Conformal field theory, anomalies and superstrings, 89c:81004**

(Badurek, G.) *see* **Matter wave interferometry, 89e:81003**

(Batalin, I. A.) *see* **Quantum field theory and quantum statistics, 89b:81007** *and* **89b:81008**

(Brink, Lars) *see* **Unification of fundamental interactions, 89f:81005**

(Castell, L.) *see* **Quantum theory and the structures of time and space, 89e:81004**

(Chew, C. K.) *see* **Conformal field theory, anomalies and superstrings, 89c:81004**

(Davydov, A. S.) *see* **Physics of multiparticle systems, 89c:81005**

(Doebner, H.-D.) *see* **Group theoretical methods in physics, 89g:81001**

(Domokos, G.) *see* **Proceedings: Johns Hopkins Workshop on Current Problems in Particle Theory, 89b:81006**

(Duan, Yi Shi) *see* **Proceedings: Johns Hopkins Workshop on Current Problems in Particle Theory, 89b:81006**

(Feldman, Joel S.) *see* **Mathematical quantum field theory and related topics, 89g:81002**

(Fradkin, E. S.) *see* **Quantum field theory and quantum statistics, 89b:81007** *and* **89b:81008**

(Gates, S. James, Jr.) *see* **Workshop: Superstrings, Cosmology, Composite Structures, 89a:81005**

(Hennig, J. D.) *see* **Group theoretical methods in physics, 89g:81001**

(Isham, C. J.) *see* **Quantum field theory and quantum statistics, 89b:81007** *and* **89b:81008**

(Jimbo, Michio) *see* **Conformal field theory and solvable lattice models, 89f:81003**

(Johnson, Gerald W.) *see* **Functional integration with emphasis on the Feynman integral, 89a:81003**

(Kawarabayashi, K.) *see* **Wandering in the fields, 89m:81002**

(Kazakov, D. I.) *see* **Conference: Renormalization Group, 89a:81002**

(Khanna, F. C.) *see* **Institute: Theoretical Physics, 89h:81005** *and* **89h:81006**

(Kopvillem, U. Kh.) *see* **Group-theoretic methods in fundamental and applied physics, 89b:81005**

(Kövesi-Domokos, S.) *see* **Proceedings: Johns Hopkins Workshop on Current Problems in Particle Theory, 89b:81006**

(Kunstatter, G.) *see* **Institute: Theoretical Physics, 89h:81005** *and* **89h:81006**

(Lee, Hoong Chien) *see* **Institute: Theoretical Physics, 89h:81005** *and* **89h:81006**

(Man′ko, V. I.) *see* **Group theoretical methods in physics, 89k:81002**

(Markov, M. A.) *see* **Group-theoretic methods in physics, 89d:81001; 89d:81002** *and* **Group theoretical methods in physics, 89k:81002**

(Marnelius, R.) *see* **Unification of fundamental interactions, 89f:81005**

(van der Merwe, Alwyn J.) *see* **Microphysical reality and quantum formalism, 89j:81004**

(Miwa, Tetsuji) *see* **Conformal field theory and solvable lattice models, 89f:81003**

(Mohapatra, Rabindra Nath) *see* **Workshop: Superstrings, Cosmology, Composite Structures, 89a:81005**

(Morales, Pedro) *see* **Functional integration with emphasis on the Feynman integral, 89a:81003**

(Nilsson, Jan S.) *see* **Unification of fundamental interactions, 89f:81005**

(Nishijima, Kazuhiko) *see* **Wandering in the fields, 89m:81002**

(Oh, C. H.) *see* **Conformal field theory, anomalies and superstrings, 89c:81004**

(Palev, T. D.) *see* **Group theoretical methods in physics, 89g:81001**

(Phua, K. K.) *see* **Conformal field theory, anomalies and superstrings, 89c:81004**

(Rauch, Helmut) *see* **Matter wave interferometry, 89e:81003**

(Rosen, Lon M.) *see* **Mathematical quantum field theory and related topics, 89g:81002**

(Salomonson, Per) *see* **Unification of fundamental interactions, 89f:81005**

(Schrödinger, Erwin) *see* **Matter wave interferometry, 89e:81003**

(Selleri, Franco) *see* **Microphysical reality and quantum formalism, 89j:81004**

(Shabad, A. E.) *see* **Group theoretical methods in physics, 89k:81002**

(Shirkov, D. V.) *see* **Conference: Renormalization Group, 89a:81002**

(Skagerstam, Bo-Sture) *see* **Unification of fundamental interactions, 89f:81005**

(Sridhar, R.) *see* **Recent developments in theoretical physics, 89a:81004**

(Srinivasa Rao, K.) *see* **Recent developments in theoretical physics, 89a:81004**

(Sudarshan, E. C. G.) *see* **Recent developments in theoretical physics, 89a:81004**

(Tarozzi, G.) *see* **Microphysical reality and quantum formalism, 89j:81004**

(Truhlar, Donald G.) *see* **Mathematical frontiers in computational chemical physics, 89f:81004**

(Tsuchiya, Akihiro) *see* **Conformal field theory and solvable lattice models, 89f:81003**

(Ukawa, A.) *see* **Wandering in the fields, 89m:81002**

(Umezawa, H.) *see* **Institute: Theoretical Physics, 89h:81005** *and* **89h:81006**

(Vilkoviskiĭ, G. A.) *see* **Quantum field theory and quantum statistics, 89b:81007** *and* **89b:81008**

(Vladimirov, A. A.) *see* **Conference: Renormalization Group, 89a:81002**

(von Waldenfels, Wilhelm) *see* **Quantum probability and applications, 89i:81004**

(von Weizsäcker, C.-F.) *see* **Quantum theory and the structures of time and space, 89e:81004**

(Yau, S.-T.) *see* **Mathematical aspects of string theory, 89m:81001**

(Zeilinger, Anton) *see* **Matter wave interferometry, 89e:81003**

Items listed otherwise than by author

Alushta ★ Труды VIII Международного Совещания по Проблемам Квантовой Теóрии Поля. (Russian) [Proceedings of the VIII International Conference on the Problems of Quantum Field Theory] **89g:81003**

Anniversary:

  Birth of Schrödinger, Erwin ★ Matter wave interferometry. **89e:81003**

College Park, MD ★ International Workshop on Superstrings, Cosmology, Composite Structures. **89a:81005**

Colloquium:

  Group Theoretical Methods in Physics ★ Group theoretical methods in physics. **89g:81001**

Conference:

  Mathematical aspects of string theory ★ Mathematical aspects of string theory. **89m:81001**

  Mathematical Quantum Field Theory and Related Topics ★ Mathematical quantum field theory and related topics. **89g:81002**

  Microphysical Reality and Quantum Formalism ★ Microphysical reality and quantum formalism. Vol. 1, 2. **89j:81004**

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  Quantum Probability and Applications ★ Quantum probability and applications. III. **89i:81004**

  Quantum Theory and the Structures of Time and Space ★ Quantum theory and the structures of time and space. Vol. 5. **89e:81004**

  Renormalization Group ★ Совещание "Ренормгруппа—86". (Russian) [Conference "Renormalization Group—86"] **89a:81002**

Conformal field theory and solvable lattice models ★ Conformal field theory and solvable lattice models. **89f:81003**

Conformal field theory, anomalies and superstrings ★ Conformal field theory, anomalies and superstrings. **89c:81004**

Dubna ★ Совещание "Ренормгруппа—86". (Russian) [Conference "Renormalization Group—86"] **89a:81002**

Edmonton, AB ★ CAP-NSERC Summer Institute in Theoretical Physics. Vol. I. **89h:81005**

— ★ CAP-NSERC Summer Institute in Theoretical Physics. Vol. II. **89h:81006**

Festschrift:

  Nishijima, Kazuhiko ★ Wandering in the fields. **89m:81002**

Functional integration with emphasis on the Feynman integral ★ Functional integration with emphasis on the Feynman integral. **89a:81003**

Group-theoretic methods in fundamental and applied physics ★ Теоретико-групповые методы в фундаментальной и прикладной физике. (Russian) [Group-theoretic methods in fundamental and applied physics] **89b:81005**

Group-theoretic methods in physics ★ Теоретико-групповые методы в физике. Том 1. (Russian) [Group-theoretic methods in physics. Vol. 1] **89d:81001**

— ★ Теоретико-групповые методы в физике. Том 2. (Russian) [Group-theoretic methods in physics. Vol. 2] **89d:81002**

Group theoretical methods in physics ★ Group theoretical methods in physics. Vol. 1–3. **89k:81002**

— ★ Group theoretical methods in physics. **89g:81001**

Institute:

  Theoretical Physics ★ CAP-NSERC Summer Institute in Theoretical Physics. Vol. I. **89h:81005**

  — ★ CAP-NSERC Summer Institute in Theoretical Physics. Vol. II. **89h:81006**

Jūrmala ★ Теоретико-групповые методы в физике. Том 1. (Russian) [Group-theoretic methods in physics. Vol. 1] **89d:81001**

— ★ Теоретико-групповые методы в физике. Том 2. (Russian) [Group-theoretic methods in physics. Vol. 2] **89d:81002**

Kottayam ★ Recent developments in theoretical physics. **89a:81004**

Kyoto ★ Conformal field theory and solvable lattice models. **89f:81003**

Lanzhou ★ Proceedings of the Johns Hopkins Workshop on Current Problems in Particle Theory. 11. Frontiers in Particle Theory. **89b:81006**

Lecture Notes in Mathematics ★ Quantum probability and applications. III. **89i:81004**

Lecture Notes in Physics ★ Group theoretical methods in physics. **89g:81001**

Marstrand ★ Unification of fundamental interactions. **89f:81005**

Mathematical aspects of string theory ★ Mathematical aspects of string theory. **89m:81001**

Mathematical frontiers in computational chemical physics ★ Mathematical frontiers in computational chemical physics. **89f:81004**

Mathematical quantum field theory and related topics ★ Mathematical quantum field theory and related topics. **89g:81002**

Matter wave interferometry ★ Matter wave interferometry. **89e:81003**

Microphysical reality and quantum formalism ★ Microphysical reality and quantum formalism. Vol. 1, 2. **89j:81004**

Minneapolis, MN ★ Mathematical frontiers in computational chemical physics. **89f:81004**

Montreal, PQ ★ Mathematical quantum field theory and related topics. **89g:81002**

Oberwolfach ★ Quantum probability and applications. III. **89i:81004**

Physics of multiparticle systems ★ Физика многочастичных систем. Вып. 12. (Russian) [Physics of multiparticle systems. No. 12] **89c:81005**

Proceedings:

- **Conference on the Problems of Quantum Field Theory** ★ Труды VIII Международного Совещания по Проблемам Квантовой Теории Поля. (Russian) [Proceedings of the VIII International Conference on the Problems of Quantum Field Theory] **89i:81003**
- **Johns Hopkins Workshop on Current Problems in Particle Theory** ★ Proceedings of the Johns Hopkins Workshop on Current Problems in Particle Theory. 11. Frontiers in Particle Theory. **89b:81006**

Quantum field theory and quantum statistics ★ Quantum field theory and quantum statistics. Vol. 1. **89b:81007**

— ★ Quantum field theory and quantum statistics. Vol. 2. **89b:81008**

Quantum probability and applications ★ Quantum probability and applications. III. **89i:81004**

Quantum theory and the structures of time and space ★ Quantum theory and the structures of time and space. Vol. 5. **89e:81004**

Recent developments in theoretical physics ★ Recent developments in theoretical physics. **89a:81004**

San Diego, Calif. ★ Mathematical aspects of string theory. **89m:81001**

School-Seminar:

- **Group-theoretic Methods in Fundamental and Applied Physics** ★ Теоретико-групповые методы в фундаментальной и прикладной физике. (Russian) [Group-theoretic methods in fundamental and applied physics] **89b:81005**

Seminar:

- **Group-Theoretic Methods in Physics** ★ Теоретико-групповые методы в физике. Том 1. (Russian) [Group-theoretic methods in physics. Vol. 1] **89d:81001**
- — ★ Теоретико-групповые методы в физике. Том 2. (Russian) [Group-theoretic methods in physics. Vol. 2] **89d:81002**
- **Group Theoretical Methods in Physics** ★ Group theoretical methods in physics. Vol. 1–3. **89k:81002**

Sherbrooke, PQ ★ Functional integration with emphasis on the Feynman integral. **89a:81003**

Singapore ★ Conformal field theory, anomalies and superstrings. **89c:81004**

Symposium:

- **Conformal Field Theory and Solvable Lattice Models** ★ Conformal field theory and solvable lattice models. **89f:81003**
- **Recent Developments in Theoretical Physics** ★ Recent developments in theoretical physics. **89a:81004**
- **Unification of Fundamental Interactions** ★ Unification of fundamental interactions. **89f:81005**

Tutzing ★ Quantum theory and the structures of time and space. Vol. 5. **89e:81004**

Unification of fundamental interactions ★ Unification of fundamental interactions. **89f:81005**

Urbino ★ Microphysical reality and quantum formalism. Vol. 1, 2. **89j:81004**

Varna ★ Group theoretical methods in physics. **89g:81001**

Vienna ★ Matter wave interferometry. **89e:81003**

Vladivostok ★ Теоретико-групповые методы в фундаментальной и прикладной физике. (Russian) [Group-theoretic methods in fundamental and applied physics] **89b:81005**

Wandering in the fields ★ Wandering in the fields. **89m:81002**

Workshop:

- **Atomic and Molecular Structure and Dynamics** ★ Mathematical frontiers in computational chemical physics. **89f:81004**
- **Field Theory in Two Dimensions** ★ CAP-NSERC Summer Institute in Theoretical Physics. Vol. II. **89h:81006**
- **Frontiers in Particle Theory** ★ Proceedings of the Johns Hopkins Workshop on Current Problems in Particle Theory. 11. Frontiers in Particle Theory. **89b:81006**
- **Functional Integration with Emphasis on the Feynman Integral** ★ Functional integration with emphasis on the Feynman integral. **89a:81003**
- **High Energy Physics** ★ Conformal field theory, anomalies and superstrings. **89c:81004**
- **Johns Hopkins, Current Problems in Particle Theory** ★ Proceedings of the Johns Hopkins Workshop on Current Problems in Particle Theory. 11. Frontiers in Particle Theory. **89b:81006**
- **Matter Wave Interferometry in the Light of Schrödinger's Wave Mechanics** ★ Matter wave interferometry. **89e:81003**
- **Quantum Field Theory as an Interdisciplinary Basis** ★ CAP-NSERC Summer Institute in Theoretical Physics. Vol. I. **89h:81005**
- **Superstrings, Cosmology, Composite Structures** ★ International Workshop on Superstrings, Cosmology, Composite Structures. **89a:81005**

Zvenigorod ★ Group theoretical methods in physics. Vol. 1–3. **89k:81002**

Items with secondary classifications in 81–06

Bell, J. S. ★ Speakable and unspeakable in quantum mechanics. **89k:81005**

(Bleuler, Konrad) *see* **Differential geometrical methods in theoretical physics, 89j:00012**

(Bohm, David) *see* **Quantum implications, 89m:81006**

(Bongaarts, P. J. M.) *see* **Complex differential geometry and supermanifolds in strings and fields, 89g:58002**

(Bowman, Joel M.) *see* **Molecular vibrations, 89f:81008**

(Breitenlohner, Peter) *see* **Renormalization of quantum field theories with nonlinear field transformations, 89g:81058**

(Cahen, Michel) *see* **Quantum theories and geometry, 89g:00017**

(Davies, I. M.) *see* **Stochastic mechanics and stochastic processes, 89c:60006**

(Flato, M.) *see* **Quantum theories and geometry, 89g:00017**

(Garrido, Luis) *see* **Far from equilibrium phase transitions, 89j:82002**

(Gauduchon, P.) *see* **Harmonic mappings, twistors, and σ-models, 89h:58047**

(Goddard, Peter) *see* **Kac-Moody and Virasoro algebras, 89f:17022**

(Greenberger, Daniel M.) *see* **New techniques and ideas in quantum measurement theory, 89m:81005**

(Hiley, B. J.) *see* **Quantum implications, 89m:81006**

(Kazakov, D. I.) *see* **Renormalization group, 89k:82003**

(de Kerf, E. A.) *see* **Proceedings: Seminar on Mathematical Structures in Field Theories, 89m:81083**

(Knight, P. L.) *see* **Squeezed light, 89m:81213a**

(Loudon, R.) *see* **Squeezed light, 89m:81213a**

(Lundqvist, Stig) *see* **Path summation: achievements and goals, 89i:81034**

(Maison, Dieter) *see* **Renormalization of quantum field theories with nonlinear field transformations, 89g:81058**

(Martini, R.) *see* **Complex differential geometry and supermanifolds in strings and fields, 89g:58002**

(Mittelstaedt, Peter) *see* **Recent developments in quantum logic, 89h:81008**

(Olive, D. I.) *see* **Kac-Moody and Virasoro algebras, 89f:17022**

(Peat, F. David) *see* **Quantum implications, 89m:81006**

(Pijls, H. G. J.) *see* **Proceedings: Seminar on Mathematical Structures in Field Theories, 89m:81083**

(Ranfagni, Anedio) *see* **Path summation: achievements and goals, 89i:81034**

(Sa-yakanit, Virulh) *see* **Path summation: achievements and goals, 89i:81034**

(Schulman, L. S.) *see* **Path summation: achievements and goals, 89i:81034**

(Shirkov, D. V.) *see* **Renormalization group, 89k:82003**

(Sibold, K.) *see* **Renormalization of quantum field theories with nonlinear field transformations, 89g:81058**

(Stachow, Ernst-Walther) *see* **Recent developments in quantum logic, 89h:81008**

(Truman, Aubrey) *see* **Stochastic mechanics and stochastic processes, 89c:60006**

(Vladimirov, A. A.) *see* **Renormalization group, 89k:82003**

(Werner, M.) *see* **Differential geometrical methods in theoretical physics, 89j:00012**

Items listed otherwise than by author

Amsterdam ★ Proceedings Seminar 1984–1986. Mathematical Structures in Field Theories. Vol. 1. **89m:81083**

Colloquium:

- **Harmonic Mappings, Twistors and σ-Models** ★ Harmonic mappings, twistors, and σ-models. **89h:58047**

Cologne ★ Recent developments in quantum logic. **89h:81008**

Como ★ Differential geometrical methods in theoretical physics. **89j:00012**

Complex differential geometry and supermanifolds in strings and fields ★ Complex differential geometry and supermanifolds in strings and fields. **89g:58002**

Conference:

- **Complex Differential Geometry and Supermanifolds in Strings and Fields** ★ Complex differential geometry and supermanifolds in strings and fields. **89g:58002**
- **Differential Geometrical Methods in Theoretical Physics** ★ Differential geometrical methods in theoretical physics. **89j:00012**
- **New techniques and ideas in quantum measurement theory** ★ New techniques and ideas in quantum measurement theory. **89m:81005**
- **Path Integral Method with Applications** ★ Path summation: achievements and goals. **89i:81034**
- **Renormalization Group—86** ★ Renormalization group. **89k:82003**
- **Statistical Mechanics** ★ Far from equilibrium phase transitions. **89j:82002**
- **Stochastic Mechanics and Stochastic Processes** ★ Stochastic mechanics and stochastic processes. **89c:60006**

***D*-modules and nonlinear integrable systems** ★ *D*-modules and nonlinear integrable systems. (Japanese) **89b:58007**

Differential geometrical methods in theoretical physics ★ Differential geometrical methods in theoretical physics. **89j:00012**

Differential geometry, Lie groups, and mechanics ★ Differential geometry, Lie groups, and mechanics. Part VII. **89a:00003**

Dubna ★ IV Международный Симпозиум по Избранным Проблемам Статистической Механики. (Russian) [IV International Symposium on Selected Topics in Statistical Mechanics] **89g:82003**

— ★ Renormalization group. **89k:82003**

Far from equilibrium phase transitions ★ Far from equilibrium phase transitions. **89j:82002**

Harmonic mappings, twistors, and σ-models ★ Harmonic mappings, twistors, and σ-models. **89h:58047**

Kac-Moody and Virasoro algebras ★ Kac-Moody and Virasoro algebras. **89f:17022**

Lecture Notes in Mathematics ★ Stochastic mechanics and stochastic processes. **89c:60006**

Lecture Notes in Physics ★ Complex differential geometry and supermanifolds in strings and fields. **89g:58002**

— ★ Renormalization of quantum field theories with nonlinear field transformations. **89g:81058**

— ★ Far from equilibrium phase transitions. **89j:82002**

Les Treilles ★ Quantum theories and geometry. **89g:00017**

Luminy ★ Harmonic mappings, twistors, and σ-models. **89h:58047**

Meeting:

- **Quantum Theories and Geometry** ★ Quantum theories and geometry. **89g:00017**

Molecular vibrations ★ Molecular vibrations. **89f:81008**

New techniques and ideas in quantum measurement theory ★ New techniques and ideas in quantum measurement theory. **89m:81005**

New York ★ New techniques and ideas in quantum measurement theory. **89m:81005**
Path summation: achievements and goals ★ Path summation: achievements and goals. **89i:81034**
Proceedings:
  Seminar on Mathematical Structures in Field Theories ★ Proceedings Seminar 1984–1986. Mathematical Structures in Field Theories. Vol. 1. **89m:81083**
Quantum implications ★ Quantum implications. **89m:81006**
Quantum theories and geometry ★ Quantum theories and geometry. **89g:00017**
Recent developments in quantum logic ★ Recent developments in quantum logic. **89h:81008**
Renormalization group ★ Renormalization group. **89k:82003**
Renormalization of quantum field theories with nonlinear field transformations ★ Renormalization of quantum field theories with nonlinear field transformations. **89g:81058**
Scheveningen ★ Complex differential geometry and supermanifolds in strings and fields. **89g:58002**
Seminar:
  Mathematical Structures in Field Theories ★ Proceedings Seminar 1984–1986. Mathematical Structures in Field Theories. Vol. 1. **89m:81083**
Sitges ★ Far from equilibrium phase transitions. **89j:82002**
Special issue:
  Molecular vibrations ★ Molecular vibrations. **89f:81008**
Squeezed light ★ Squeezed light. **89m:81213a**
Stochastic mechanics and stochastic processes ★ Stochastic mechanics and stochastic processes. **89c:60006**
Swansea ★ Stochastic mechanics and stochastic processes. **89c:60006**
Symposium:
  ***D*-modules and Nonlinear Integrable Systems** ★ *D*-modules and nonlinear integrable systems. (Japanese) **89b:58007**
  Quantum logic ★ Recent developments in quantum logic. **89h:81008**
  Selected Topics in Statistical Mechanics ★ IV Международный Симпозиум по Избранным Проблемам Статистической Механики. (Russian) [IV International Symposium on Selected Topics in Statistical Mechanics] **89g:82003**
  Toda Lattice and Related Topics ★ Toda koshi to sono shuhen. (Japanese) [Toda lattice and related topics] **89g:58003**
Tegernsee ★ Renormalization of quantum field theories with nonlinear field transformations. **89g:81058**
Toda lattice and related topics ★ Toda koshi to sono shuhen. (Japanese) [Toda lattice and related topics] **89g:58003**
Trieste ★ Path summation: achievements and goals. **89i:81034**
Workshop:
  Differential Geometrical Methods in Theoretical Physics ★ Differential geometrical methods in theoretical physics. **89j:00012**
  Renormalization of Quantum Field Theories with Nonlinear Field Transformations ★ Renormalization of quantum field theories with nonlinear field transformations. **89g:81058**

81–08 Computational methods

Alvarellos, José (*with* Metiu, Horia) The evolution of the wave function in a curve crossing problem computed by a fast Fourier transform method. **89b:81009**
Azakov, S. I. Group integrals in the lattice QCD with Susskind fermions. **89f:81006**
Batrouni, G. *see* **Davies, C. T. H.; et al., 89g:81004a** *and* **Katz, G. R.; et al., 89g:81004b**
Bisseling, R. H. (*with* Kosloff, R.) Optimal choice of grid points in multidimensional pseudospectral Fourier methods. **89e:81005**
(Bowman, Joel M.) *see* **Molecular vibrations, 89f:81008**
Brower, Richard C. (*with* Moriarty, K. J. M.; Myers, Eric; Rebbi, Claudio) The multigrid method for fermion calculations in quantum chromodynamics. (*see* **89c:65005**)
(Buendía, E.) *see* **Ixaru, L. Gr., 89b:81011**
Burkitt, A. N. (*with* Irving, A. C.) Identity of the conjugate gradient and Lanczos algorithms for matrix inversion in lattice fermion calculations. **89c:81006**
Caffarel, Michel (*with* Claverie, Pierre) Development of a pure diffusion quantum Monte Carlo method using a full generalized Feynman-Kac formula. I. Formalism. **89b:81010a**
— (*with* Claverie, Pierre) Development of a pure diffusion quantum Monte Carlo method using a full generalized Feynman-Kac formula. II. Applications to simple systems. **89b:81010b**
Castro, Eduardo A. *see* **Díaz, Carlos G.; et al., 89c:81008**
Claverie, Pierre *see* **Caffarel, Michel, 89b:81010a** *and* **89b:81010b**
Davies, C. T. H. (*with* Batrouni, G.; Katz, G. R.; Kronfeld, A.; Lepage, G. P.; Wilson, K.; Rossi, Pietro; Svetitsky, B.) Fourier acceleration in lattice gauge theories. I. Landau gauge fixing. **89g:81004a**
— *see also* **Katz, G. R.; et al., 89g:81004b**
Díaz, Carlos G. (*with* Fernández, Francisco M.; Castro, Eduardo A.) On the numerical integration of the Schrödinger equation. **89c:81008**
Fernández, Francisco M. *see* **Díaz, Carlos G.; et al., 89c:81008**
Ferro Fontán, Constantino *see* **Ponce Dawson, Silvina, 89c:81007**
de Forcrand, Philippe *see* **Gupta, Rajan; et al., 89h:81007**
Grobe, Rainer (*with* Haake, Fritz; Sommers, H.-J.) Quantum distinction of regular and chaotic dissipative motion. **89i:81005**
(Guardiola, R.) *see* **Ixaru, L. Gr., 89b:81011**
Gupta, Rajan (*with* Kilcup, Gregory W.; Patel, Apoorva; Sharpe, Stephen R.; de Forcrand, Philippe) Comparison of update algorithms for pure gauge SU(3). **89h:81007**
Haake, Fritz *see* **Grobe, Rainer; et al., 89i:81005**
Haftel, M. I. (*with* Mandelzweig, V. B.) Fast convergent hyperspherical harmonic expansion for three-body systems. **89k:81003**
Hodgson, R. J. W. Precise shooting methods for the Schrödinger equation. **89d:81003**
Homma, Shigeo *see* **Matsuda, Hirotsugu; et al., 89m:81004**
Horn, David (*with* Langeveld, W. G. J.; Quinn, H. R.; Weinstein, Marvin) Operator renormalization group. **89j:81005**
Irving, A. C. *see* **Burkitt, A. N., 89c:81006**
Ishii, Kazushige *see* **Matsuda, Hirotsugu; et al., 89m:81004**
Ixaru, L. Gr. Comment: "The Numerov method and singular potentials" [J. Comput. Phys. 60 (1985), no. 3, 561–564; MR 87j:65084] by E. Buendía and R. Guardiola. **89b:81011**
Jolicard, Georges A recursive solution to the time dependent Schrödinger equation using a generalized quasidegenerate Bloch formalism. **89m:81003**
Katz, G. R. (*with* Batrouni, G.; Davies, C. T. H.; Kronfeld, A.; Lepage, G. P.; Rossi, Pietro; Svetitsky, B.; Wilson, K.) Fourier acceleration in lattice gauge theories. II. Matrix inversion and the quark propagator. **89g:81004b**
— *see also* **Davies, C. T. H.; et al., 89g:81004a**
Kilcup, Gregory W. *see* **Gupta, Rajan; et al., 89h:81007**
Kosloff, R. *see* **Bisseling, R. H., 89e:81005**
Kronfeld, A. *see* **Davies, C. T. H.; et al., 89g:81004a** *and* **Katz, G. R.; et al., 89g:81004b**
Langeveld, W. G. J. *see* **Horn, David; et al., 89j:81005**
Lepage, G. P. *see* **Davies, C. T. H.; et al., 89g:81004a** *and* **Katz, G. R.; et al., 89g:81004b**
Mandelzweig, V. B. *see* **Haftel, M. I., 89k:81003**
Matsuda, Hirotsugu (*with* Ishii, Kazushige; Homma, Shigeo; Ogita, Naofumi) Theoretical basis of the decoupled cell Monte Carlo simulation for quantum systems. **89m:81004**
Matsui, Tetsuo (*with* Nakamura, Atsushi) Parisi-Klauder algorithm for complex actions in stochastic quantization. **89c:81009**
Metiu, Horia *see* **Alvarellos, José, 89b:81009**
Monagan, M. B. *see* **Scott, T. C.; et al.,** (Not in MR)
Moore, R. A. *see* **Scott, T. C.; et al.,** (Not in MR)
Moriarty, K. J. M. *see* **Brower, Richard C.; et al., (89c:65005)**
Myers, Eric *see* **Brower, Richard C.; et al., (89c:65005)**
Nakamura, Atsushi *see* **Matsui, Tetsuo, 89c:81009**
Ogita, Naofumi *see* **Matsuda, Hirotsugu; et al., 89m:81004**
Patel, Apoorva *see* **Gupta, Rajan; et al., 89h:81007**
Ponce Dawson, Silvina (*with* Ferro Fontán, Constantino) Extension of the Ablowitz-Ladik method to the derivative nonlinear Schrödinger equation. **89c:81007**
Quinn, H. R. *see* **Horn, David; et al., 89j:81005**
Rebbi, Claudio *see* **Brower, Richard C.; et al., (89c:65005)**
Rossi, Pietro *see* **Davies, C. T. H.; et al., 89g:81004a** *and* **Katz, G. R.; et al., 89g:81004b**
Scott, T. C. (*with* Moore, R. A.; Monagan, M. B.) Resolution of many particle electrodynamics by symbolic manipulation. (Not in MR)
Sharpe, Stephen R. *see* **Gupta, Rajan; et al., 89h:81007**
Sommers, H.-J. *see* **Grobe, Rainer; et al., 89i:81005**
Svetitsky, B. *see* **Davies, C. T. H.; et al., 89g:81004a** *and* **Katz, G. R.; et al., 89g:81004b**
Vichnevetsky, Robert Quantum properties of wave propagation in periodic structures. **89f:81007**
Weinstein, Marvin *see* **Horn, David; et al., 89j:81005**
Wilson, K. *see* **Davies, C. T. H.; et al., 89g:81004a** *and* **Katz, G. R.; et al., 89g:81004b**

Items listed otherwise than by author

Molecular vibrations ★ Molecular vibrations. **89f:81008**
Special issue:
  Molecular vibrations ★ Molecular vibrations. **89f:81008**

Items with secondary classifications in 81–08

Adler, Stephen L. Overrelaxation algorithms for lattice field theories. **89f:81142**
Atkinson, D. (*with* Johnson, P. W.) Chiral-symmetry breaking in QCD. II. Running coupling constant. **89f:81244b**
Bublik, B. N. (*with* Lyashenko, I. N.; Lyashenko, B. N.) Two-sided approximation of a solution of a problem of two centers in quantum mechanics. (Russian. English summary) **89k:81021**
Campostrini, Massimo (*with* Curci, Giuseppe; Rossi, Paolo[1]) The Gross-Neveu model and the pseudofermion algorithm. **89k:81132**
Castro, Eduardo A. *see* **Fernández, Francisco M., 89b:34057** *and* **89m:81034**
Chang, Y. F. *see* **Karliner, Marek; et al., 89e:81125**
Curci, Giuseppe *see* **Campostrini, Massimo; et al., 89k:81132**
Davies, C. T. H. *see* **Rossi, Pietro; et al., 89b:81169**
Dean, Edward J. (*with* Glowinski, R.; Li, Chin Hsien) Applications of operator splitting methods to the numerical solution of nonlinear problems in continuum mechanics and physics. **89e:65060**
Duncan, Anthony Lattice Hamiltonian in physical gauges. **89c:81092**
Duneczky, Csilla (*with* Wyatt, Robert E.) Lanczos recursion, continued fractions, Padé approximants, and variational principles in quantum scattering theory. **89f:81225**
Edwards, Robert G. (*with* Sokal, Alan D.) Generalization of the Fortuin-Kasteleyn-Swendsen-Wang representation and Monte Carlo algorithm. **89i:82003**
Eleutério, S. M. (*with* Vilela Mendes, Rui) Stochastic mechanics of abelian lattice theories. **89a:81101**
El-Hajj, Ali *see* **Kobeissi, Hafez; et al.,** (Not in MR)
Fernández, Francisco M. (*with* Castro, Eduardo A.) Eigenvalues from the Riccati equation. **89b:34057**
— (*with* Frydman, Gabriel I.; Castro, Eduardo A.) Tight bounds to the Schrödinger equation eigenvalues. **89m:81034**
Fjeldsø, N. (*with* Midtdal, J.; Ravndal, F.) Random walks of a quantum particle on a circle. **89g:82006**
Frydman, Gabriel I. *see* **Fernández, Francisco M.; et al., 89m:81034**
Giamarchi, T. *see* **Pierre, Laurent; et al., 89b:82008**
Gilmore, R. *see* **Novoselsky, Akiva; et al., 89f:81271**
Glowinski, R. *see* **Dean, Edward J.; et al., 89e:65060**
Grosjean, Carl C. A general formula for the calculation of Gaussian path-integrals in two and three Euclidean dimensions. **89h:81050**
(Haario, H.) *see* **Theory and applications of inverse problems, 89c:00029**
Handy, Carlos R. Nonnegativity and moment quantization for $|\Psi|^2$. **89b:81048**
Haug, Kenneth *see* **Zhang, John Z. H.; et al., 89a:81180**
Horáček, Jiří Extrapolation technique for solution of scattering integral equations. **89m:81174**
Izrailev, F. M. Quantum localization and statistics of quasienergy spectrum in a classically chaotic system. **89j:81067**
Jędrzejek, C. *see* **Streszewski, M., 89b:81254**

John, Sarah (*with* Remler, E. A.) Solution of the quantum Liouville equation as a stochastic process. **89h:81046**
Johnson, P. W. *see* **Atkinson, D., 89f:81244b**
Karliner, Marek (*with* Sharpe, Stephen R.; Chang, Y. F.) Zeroing in on SU(3). **89e:81125**
Katriel, Jacob *see* **Novoselsky, Akiva; et al., 89f:81271**
Kent, R. D. (*with* Schlesinger, Mordechay) Two-body-operator matrix elements in SU(n) for application to complex spectroscopy. **89b:81063**
Killingbeck, J. The exponential cosine screened potential. **89d:81021**
— Boolean functions and finite difference eigenvalues. **89h:81244**
— An adaptable summation algorithm. **89h:81039**
Kobeissi, Hafez (*with* Kobeissi, Majida; El-Hajj, Ali) On computing eigenvalues of the Schrödinger equation for symmetrical potentials. (Not in MR)
Kobeissi, Majida *see* **Kobeissi, Hafez; et al.**, (Not in MR)
Kouri, Donald J. *see* **Zhang, John Z. H.; et al., 89a:81180**
Leiber, T. *see* **Scherrer, H.; et al., 89i:81022**
Lepage, G. P. *see* **Rossi, Pietro; et al., 89b:81169**
Li, Chin Hsien *see* **Dean, Edward J.; et al., 89e:65060**
Lyashenko, B. N. *see* **Bublik, B. N.; et al., 89k:81021**
Lyashenko, I. N. *see* **Bublik, B. N.; et al., 89k:81021**
MacKeown, P. K. (*with* Newman, Douglas John) ★ Computational techniques in physics. **89a:65002**
Midtdal, J. *see* **Fjeldsø, N.; et al., 89g:82006**
Migdal, A. A. *see* **Zmushko, V. V., 89j:81151**
Miller, William H. *see* **Peet, Andrew C., 89m:81176**
Montvay, I. Bosonized dynamical fermions in 3 + 1 dimensions. **89k:81120**
Neuberger, Herbert Adler's overrelaxation algorithm for Goldstone bosons. **89c:81095**
Newman, Douglas John *see* **MacKeown, P. K., 89a:65002**
Novoselsky, Akiva (*with* Katriel, Jacob; Gilmore, R.) Coefficients of fractional parentage in the L-S coupling scheme. **89f:81271**
Peet, Andrew C. (*with* Miller, William H.) A pointwise representation of the S-matrix Kohn variational principle for quantum scattering. **89m:81176**
Pierre, Laurent (*with* Giamarchi, T.; Schulz, H. J.) A new random-number generator for multispin Monte Carlo algorithms. **89b:82008**
Ravndal, F. *see* **Fjeldsø, N.; et al., 89g:82006**
Remler, E. A. *see* **John, Sarah, 89h:81046**
Riordan, Frank A shooting approximation to wavefunctions with harmonic amplitude. **89a:81019**
Risken, H. *see* **Scherrer, H.; et al., 89i:81022**
Rossi, Paolo[1] *see* **Campostrini, Massimo; et al., 89k:81132**
Rossi, Pietro (*with* Davies, C. T. H.; Lepage, G. P.) A comparison of a variety of matrix inversion algorithms for Wilson fermions on the lattice. **89b:81169**
Scherrer, H. (*with* Risken, H.; Leiber, T.) Eigenvalues of the Schrödinger equation with rational potentials. **89i:81022**
Schlesinger, Mordechay *see* **Kent, R. D., 89b:81063**
Schulz, H. J. *see* **Pierre, Laurent; et al., 89b:82008**
Schwenke, David W. *see* **Zhang, John Z. H.; et al., 89a:81180**
Sharpe, Stephen R. *see* **Karliner, Marek; et al., 89e:81125**
Shima, Yaakov *see* **Zhang, John Z. H.; et al., 89a:81180**
Sokal, Alan D. *see* **Edwards, Robert G., 89i:82003**
Streszewski, M. (*with* Jędrzejek, C.) Evaluation of matrix elements for nonorthogonal states with use of path integrals. **89b:81254**
Truhlar, Donald G. *see* **Zhang, John Z. H.; et al., 89a:81180**
Vilela Mendes, Rui *see* **Eleutério, S. M., 89a:81101**
Wyatt, Robert E. *see* **Duneczky, Csilla, 89f:81225**
Yagle, A. E. Differential and integral methods for three-dimensional inverse scattering problems with a nonlocal potential. **89i:81138**
Zhang, John Z. H. (*with* Kouri, Donald J.; Haug, Kenneth; Schwenke, David W.; Shima, Yaakov; Truhlar, Donald G.) $\mathscr{L}^2$ amplitude density method for multichannel inelastic and rearrangement collisions. **89a:81180**
Zmushko, V. V. (*with* Migdal, A. A.) Generation of triangulated random surfaces by the Monte Carlo method in the grand canonical ensemble. **89j:81151**

Items listed otherwise than by author

Helsinki ★ Theory and applications of inverse problems. **89c:00029**
Symposium:
  Theory and Applications of Inverse Problems ★ Theory and applications of inverse problems. **89c:00029**
Theory and applications of inverse problems ★ Theory and applications of inverse problems. **89c:00029**

81Bxx Axiomatics, foundations, philosophy

Beltrametti, E. G. Recent facts in quantum logic and surroundings. (*see* **89h:81008**)
(Bohm, David) *see* **Quantum implications, 89m:81006**
(Feyerabend, Paul) *see* **Primas, Hans, 89k:81004**
(Greenberger, Daniel M.) *see* **New techniques and ideas in quantum measurement theory, 89m:81005**
(Hiley, B. J.) *see* **Quantum implications, 89m:81006**
(Just, Kurt) *see* **Ludwig, Günther, 89b:81012**
Ludwig, Günther ★ An axiomatic basis for quantum mechanics. Vol. 2. **89b:81012**
(Mittelstaedt, Peter) *see* **Recent developments in quantum logic, 89h:81008**
(Peat, F. David) *see* **Quantum implications, 89m:81006**
Primas, Hans ★ Chemistry, quantum mechanics and reductionism. **89k:81004**
Redhead, Michael L. G. ★ Incompleteness, nonlocality, and realism. **89i:81006**
(Stachow, Ernst-Walther) *see* **Recent developments in quantum logic, 89h:81008**

Items listed otherwise than by author

Cologne ★ Recent developments in quantum logic. **89h:81008**
Conference:
  New techniques and ideas in quantum measurement theory ★ New techniques and ideas in quantum measurement theory. **89m:81005**
New techniques and ideas in quantum measurement theory ★ New techniques and ideas in quantum measurement theory. **89m:81005**
New York ★ New techniques and ideas in quantum measurement theory. **89m:81005**
Quantum implications ★ Quantum implications. **89m:81006**
Recent developments in quantum logic ★ Recent developments in quantum logic. **89h:81008**
Symposium:
  Quantum logic ★ Recent developments in quantum logic. **89h:81008**

Items with secondary classifications in 81Bxx

(Badurek, G.) *see* **Matter wave interferometry, 89e:81003**
(van der Merwe, Alwyn J.) *see* **Microphysical reality and quantum formalism, 89j:81004**
(Rauch, Helmut) *see* **Matter wave interferometry, 89e:81003**
(Schrödinger, Erwin) *see* **Matter wave interferometry, 89e:81003**
(Selleri, Franco) *see* **Microphysical reality and quantum formalism, 89j:81004**
(Tarozzi, G.) *see* **Microphysical reality and quantum formalism, 89j:81004**
(Zeilinger, Anton) *see* **Matter wave interferometry, 89e:81003**

Items listed otherwise than by author

Anniversary:
  Birth of Schrödinger, Erwin ★ Matter wave interferometry. **89e:81003**
Conference:
  Microphysical Reality and Quantum Formalism ★ Microphysical reality and quantum formalism. Vol. 1, 2. **89j:81004**
Matter wave interferometry ★ Matter wave interferometry. **89e:81003**
Microphysical reality and quantum formalism ★ Microphysical reality and quantum formalism. Vol. 1, 2. **89j:81004**
Urbino ★ Microphysical reality and quantum formalism. Vol. 1, 2. **89j:81004**
Vienna ★ Matter wave interferometry. **89e:81003**
Workshop:
  Matter Wave Interferometry in the Light of Schrödinger's Wave Mechanics ★ Matter wave interferometry. **89e:81003**

81B05 General

Aerts, Diederik A possible explanation for the probabilities of quantum mechanics and example of a macroscopical system that violates Bell inequalities. (*see* **89h:81008**)
Albert, David A quantum-mechanical automaton. **89d:81004**
— (*with* Loewer, Barry) Interpreting the many worlds interpretation. **89m:81007**
— (*with* Loewer, Barry) Two no-collapse interpretations of quantum theory. **89m:81008**
Arthurs, E. (*with* Goodman, M. S.) Quantum correlations: a generalized Heisenberg uncertainty relation. **89i:81007**
Barut, A. O. Combining relativity and quantum mechanics: Schrödinger's interpretation of ψ. **89b:81013**
— The revival of Schrödinger's interpretation of quantum mechanics. (Not in MR)
Bell, J. S. ★ Speakable and unspeakable in quantum mechanics. **89k:81005**
— Beables for quantum field theory. (*see* **89m:81006**)
Benatti, F. (*with* Ghirardi, G. C.; Rimini, A.; Weber, Tullio) Quantum mechanics with spontaneous localization and the quantum theory of measurement. (Italian and Russian summaries) **89h:81009**
Bhandari, Rajendra *see* **Samuel, Joseph, 89m:81022**
Bhave, S. V. Separable hidden variables theory to explain Einstein-Podolsky-Rosen paradox. **89b:81014**
Bitsakis, Eftichios Quantum statistical determinism. (Not in MR)
Blankenbecler, R. *see* **Partovi, M. H., (89f:62001)**
(Bohm, David) *see* **Hiley, B. J., (89m:81006)**
(Bohr, Niels) *see* **Holcomb, Harmon R., III, 89f:81011**
von Borzeszkowski, Horst-Heino *see* **Treder, H.-J., 89f:81016**
Braunstein, Samuel L. (*with* Caves, Carlton M.) Information-theoretic Bell inequalities. **89e:81006**
Brown, Harvey Robert The problem of measurement in quantum physics: an evaluation of the extant proofs of insolubility. (Portuguese) **89b:81015**
— *see also* **Svetlichny, George; et al., 89h:81014** *and* **Foster, Sara, 89m:81014**
Burgos, M. E. Quantum mechanics is compatible with realism. **89a:81006**
Busch, Paul Can quantum theoretical reality be considered sharp? (*see* **89h:81008**)
— (*with* Schonbek, Tomas P.; Schroeck, Franklin E., Jr.) Quantum observables: compatibility versus commutativity and maximal information. **89b:81016**
Butterfield, Jeremy *see* **Svetlichny, George; et al., 89h:81014**
Cantelaube, Yves Light amplification behind a beam splitter, nonlocality and interpretation of quantum mechanics. **89m:81009**
Cantoni, Vittorio (*with* Logli, Augusto) Intrinsic properties of a physical system and uncertainty principles. (Italian. English summary) **89m:81010**
Caves, Carlton M. *see* **Braunstein, Samuel L., 89e:81006**
Chakravarty, Sudip Quantum mechanics on a macroscopic scale. (*see* **89m:81005**)
Chew, G. F. (*with* Stapp, Henry P.) Three-space from quantum mechanics. **89j:81006**
Cohen, Leon Joint quantum probabilities and the uncertainty principle. (*see* **89m:81005**)
Collett, M. J. Exact density-matrix calculations for simple open systems. **89h:81010**
Comay, E. Foundations of quantum mechanics versus the electric Aharanov-Bohm effect. (French summary) **89e:81007**
Costa de Beauregard, O. On the zigzagging causality EPR model: answer to Vigier and coworkers and to Sutherland. **89f:81009**
— On the zigzagging causality model of EPR correlations and on the interpretation of quantum mechanics. **89m:81011**
Damnjanović, Milan Is the collapse a phase transition? **89j:81007**
— *see also* **Marinković, Maja, 89b:81020**
Datta, Amitava (*with* Home, D.; Raychaudhuri, Amitava) Is quantum mechanics with CP nonconservation incompatible with Einstein's locality condition at the statistical level? **89m:81012**

Davidović, D. M. (*with* Marić, Z.) A note on the propensity concept in quantum mechanics. **89i:81008**

De Baere, W. Some further comments on the Selleri-Tarozzi proof of the nonlocality of quantum mechanics. **89m:81013**

Dewdney, C. Nonlocally correlated trajectories in two-particle quantum mechanics. **89i:81009**

— *see also* **Vigier, J.-P.; et al.,** (**89m:81006**)

Dieks, D. The formalism of quantum theory: an objective description of reality? (German summary) **89f:81010**

Drieschner, M. (*with* Görnitz, Thomas; von Weizsäcker, C.-F.) Reconstruction of abstract quantum theory. **89k:81006**

Duncan, A. J. Tests of Bell's inequality and the no-enhancement hypothesis using an atomic hydrogen source. **89k:81007**

Englert, Berthold-Georg (*with* Schwinger, Julian; Scully, Marlan O.) Is spin coherence like Humpty-Dumpty? I. Simplified treatment. (Not in MR)

Feynman, Richard P. Negative probability. (*see* **89m:81006**)

Finch, P. D. Bell's inequality, probability modelling and quantum correlation experiments. **89k:81008**

Finkelstein, David (*with* Rodriguez, Ernesto) Application of quantum set theory to quantum time-space. (*see* **89h:81008**)

— (*with* Rodriguez, Ernesto) Applications of quantum set theory. **89c:81010**

Foster, Sara (*with* Brown, Harvey Robert) On a recent attempt to define the interpretation basis in the many worlds interpretation of quantum mechanics. **89m:81014**

Foulis, D. J. *see* **Randall, C. H.,** (**89h:81008**)

van Fraassen, Bas C. Statistical behaviour of indistinguishable particles: problems of interpretation. (*see* **89h:81008**)

French, Steven (*with* Redhead, Michael L. G.) Quantum physics and the identity of indiscernibles. **89k:81009**

Ghirardi, G. C. Quantum description of microscopic and macroscopic systems: old problems and recent investigations. **89m:81015**

— (*with* Rimini, A.; Weber, Tullio) The puzzling entanglement of Schrödinger's wave function. **89a:81007**

— *see also* **Benatti, F.; et al., 89h:81009**

Glauber, R. J. Amplifiers, attenuators, and Schrödinger's cat. (*see* **89m:81005**)

Goodman, M. S. *see* **Arthurs, E., 89i:81007**

Görnitz, Thomas *see* **Drieschner, M.; et al., 89k:81006**

Grimes, Dale M. Quantum theory: the classical theory of nonlinear electromagnetics. **89m:81016**

Groenewold, H. J. What price locality? **89d:81005**

Gudder, Stanley P. A theory of amplitudes. **89h:81011**

— *see also* **Stulpe, Werner; et al., 89j:81012**

Hagler, J. *see* **Stulpe, Werner; et al., 89j:81012**

Hall, Michael J. W. Quantum mechanics and the concept of joint probability. **89k:81010**

Hellman, Geoffrey EPR, Bell, and collapse: a route around "stochastic" hidden variables. **89c:81011**

Herbut, Fedor Separability in distant Jauch-type hybrid macrostates of a quantum and a classical system. **89b:81017**

— (*with* Vujičić, Milan) Irrelevance of the Pauli principle in distant correlations between identical fermions. **89b:81018**

Hiley, B. J. (*with* Peat, F. David) General introduction: the development of David Bohm's ideas from the plasma to the implicate order. (*see* **89m:81006**)

Hoekzema, Dick Locality and realism in contextual theories. **89g:81005**

Hokkyo, Noboru Variational formulation of transactional and related interpretations of quantum mechanics. **89j:81008**

Holcomb, Harmon R., III Latency versus complementarity: Margenau and Bohr on quantum mechanics. **89f:81011**

Holland, P. R. (*with* Philippidis, C.) Anholonomic deformations in the ether: a significance for the electrodynamic potentials. (*see* **89m:81006**)

— *see also* **Vigier, J.-P.; et al.,** (**89m:81006**)

Home, D. *see* **Datta, Amitava; et al., 89m:81012** *and* **Landsberg, P. T., 89m:81019**

Horne, Michael A. (*with* Zeilinger, Anton) A possible spin-less experimental test of Bell's inequality. **89m:81017**

Ivanovíc, I. D. Mott scattering spin measurement as a generalised quantum measurement. **89f:81012**

Joos, E. Quantum theory and the appearance of a classical world. (*see* **89m:81005**)

Joshi, G. C. *see* **Nash, C. G., 89g:81006**

Kanitscheider, Bernulf Quantum mechanics—realism at bay? **89m:81018**

Kravchuk, N. V. The distinguishability of quantum states. (Russian. English summary) **89b:81019**

— Different descriptions of microscopic systems. (Russian) (*see* **89j:82003**)

Krips, Henry Realism and the collapse of the wave-packet. **89h:81012**

Kruglov, V. I. Measurements in quantum mechanics. (Russian. English summary) **89f:81013**

Kuntman, Mehmet Ali Is the physical reality criterion necessary for the Einstein-Podolsky-Rosen argument? **89c:81012**

Kwaśniewski, A. K. Remarks on canonical commutation relations.

— On the meaning of Bell's inequalities violation.

Kyprianidis, A. *see* **Vigier, J.-P.; et al.,** (**89m:81006**)

Lahti, Pekka J. Uncertainty, complementarity, and commutativity. (*see* **89h:81008**)

— (*with* Ylinen, Kari) On total noncommutativity in quantum mechanics. **89c:81013**

Landsberg, P. T. (*with* Home, D.) Wave function collapse in the ensemble interpretation. **89m:81019**

Leggett, A. J. Quantum mechanics and realism at the macroscopic level: is an experimental discrimination feasible? (*see* **89m:81005**)

Loewer, Barry *see* **Albert, David, 89m:81007** *and* **89m:81008**

Logli, Augusto *see* **Cantoni, Vittorio, 89m:81010**

Lubkin, Elihu Keeping the entropy of measurement: Szilard revisited. **89h:81013**

Maki, Ziro Probabilistic interpretation and the quantum theory of measurement. **89i:81010**

Mandel, L. *see* **Ou, Z. Y., 89e:81008**

(**Margenau, Henry**) *see* **Holcomb, Harmon R., III, 89f:81011**

Marić, Z. On Schrödinger's search for a stochastic interpretation of quantum mechanics. (German summary) **89j:81009**

— (*with* Popper, Karl; Vigier, J.-P.) Violation of Heisenberg's uncertainty relations on individual particles within subset of γ photons in $e^+e^- \to 2\gamma$ pair creation. **89k:81011**

— *see also* **Davidović, D. M., 89i:81008**

Marinković, Maja (*with* Damnjanović, Milan) Chain measurements in quantum mechanics. **89b:81020**

Maxwell, Nicholas Quantum propensiton theory: a testable resolution of the wave/particle dilemma. **89k:81012**

May, E. C. *see* **Walker, Evan Harris; et al.,** (**89e:81003**)

Menskiĭ, M. B. Evolution of a quantum system subject to continuous measurement. **89i:81011**

Mirman, R. The reality and dimension of space and the complexity of quantum mechanics. **89j:81010**

Mugur-Schächter, Mioara Locality, reflection, and wave-particle duality. **89c:81014**

de Muynck, Willem M. On the relation between the Einstein-Podolsky-Rosen paradox and the problem of nonlocality in quantum mechanics. **89c:81015**

— (*with* van Stekelenborg, J. T.) On the significance of the Bell inequalities for the locality problem in different realistic interpretations of quantum mechanics. (German summary) **89f:81014**

Namiki, Mikio Quantum mechanics of macroscopic systems and measurement processes. **89m:81020**

— Many-Hilbert-spaces theory of quantum measurements. **89d:81006**

Nash, C. G. (*with* Joshi, G. C.) Component states of a composite quaternionic system. **89g:81006**

Neumann, Holger The size of sets of physically possible states and effects. (*see* **89h:81008**)

O'Connell, R. F. *see* **Wang, Lipo,** (Not in MR)

Ohira, Toru (*with* Pearle, Philip) Perfect disturbing measurements. **89m:81021**

Ou, Z. Y. (*with* Mandel, L.) Violation of Bell's inequality and classical probability in a two-photon correlation experiment. **89e:81008**

Panchenko, A. I. Probability in classical and quantum physics. (Russian) **89d:81007**

Panković, Vladan On the impossibility of the theoretical existence of absolute determinism and absolute statisticity in physics. **89j:81011**

Partovi, M. H. (*with* Blankenbecler, R.) Time, energy, and the limits of measurement. (*see* **89f:62001**)

Pearle, Philip *see* **Ohira, Toru, 89m:81021**

Peat, F. David *see* **Hiley, B. J.,** (**89m:81006**)

Peres, Asher Existence of "free will" as a problem of physics. **89c:81016**

— Schrödinger's immortal cat. **89d:81008**

Philippidis, C. *see* **Holland, P. R.,** (**89m:81006**)

Piantanida, T. *see* **Walker, Evan Harris; et al.,** (**89e:81003**)

Piron, Constantin New formalism for new theory. (*see* **89h:81008**)

Popper, Karl *see* **Marić, Z.; et al., 89k:81011**

Posiewnik, Andrzej Hilbert space representation of time evolution of pure states. **89c:81017**

Randall, C. H. (*with* Foulis, D. J.) Stochastic entities. (*see* **89h:81008**)

Raychaudhuri, Amitava *see* **Datta, Amitava; et al., 89m:81012**

Redhead, Michael L. G. Relativity and quantum mechanics—conflict or peaceful coexistence? (*see* **89m:81005**)

— *see also* **Svetlichny, George; et al., 89h:81014** *and* **French, Steven, 89k:81009**

Rimini, A. *see* **Ghirardi, G. C.; et al., 89a:81007** *and* **Benatti, F.; et al., 89h:81009**

Rodriguez, Ernesto *see* **Finkelstein, David, 89c:81010** *and* (**89h:81008**)

Samuel, Joseph (*with* Bhandari, Rajendra) General setting for Berry's phase. **89m:81022**

Schleich, W. (*with* Walther, Herbert; Wheeler, John A.) Area in phase space as determiner of transition probability: Bohr-Sommerfeld bands, Wigner ripples, and Fresnel zones. **89m:81023**

Schonbek, Tomas P. *see* **Busch, Paul; et al., 89b:81016**

(**Schrödinger, Erwin**) *see* **Zambrini, J.-C.,** (**89e:81003**)

Schroeck, Franklin E., Jr. *see* **Busch, Paul; et al., 89b:81016**

Schwinger, Julian *see* **Englert, Berthold-Georg; et al.,** (Not in MR)

Scully, Marlan O. *see* **Englert, Berthold-Georg; et al.,** (Not in MR)

Shvarts, A. S. (*with* Tyupkin, Yu. S.) Measurement theory and the Schrödinger equation. **89g:81007**

Sliško, Josip The problem of the interpretation of quantum mechanics. (Serbo-Croatian. English summary) **89d:81009**

Spottiswoode, S. J. P. *see* **Walker, Evan Harris; et al.,** (**89e:81003**)

Stapp, Henry P. Quantum nonlocality. **89e:81009**

— *see also* **Chew, G. F., 89j:81006**

van Stekelenborg, J. T. *see* **de Muynck, Willem M., 89f:81014**

Strohmeyer, Ingeborg Tragweite und Grenze der Transzendentalphilosophie zur Grundlegung der Quantenphysik. (English summary) [The significance and limits of transcendental philosophy for the foundation of quantum physics] **89f:81015**

Stulpe, Werner (*with* Gudder, Stanley P.; Hagler, J.) An uncertainty relation for joint position-momentum measurements. **89j:81012**

Sudarshan, E. C. G. Quantum phases in classical optics. **89c:81018**

Summers, Stephen J. (*with* Werner, Reinhard) Bell's inequalities and quantum field theory. I. General setting. **89b:81021**

— (*with* Werner, Reinhard) Bell's inequalities and quantum field theory. II. Bell's inequalities are maximally violated in the vacuum. **89b:81022**

Sumner, Peter J. *see* **Wan, K. Kong, 89e:81010**

Svetlichny, George Distinguishing three-body from two-body nonseparability by a Bell-type inequality. **89c:81019**

— (*with* Redhead, Michael L. G.; Brown, Harvey Robert; Butterfield, Jeremy) Do the Bell inequalities require the existence of joint probability distributions? **89h:81014**

Tomita, Kazuhisa Conjugate pair of representations in chaos and quantum mechanics. **89a:81008**

Toraldo di Francia, G. Connotation and denotation in microphysics. (*see* **89h:81008**)

Treder, H.-J. (*with* von Borzeszkowski, Horst-Heino) Interference and interaction in Schrödinger's wave mechanics. **89f:81016**

Tyupkin, Yu. S. *see* **Shvarts, A. S., 89g:81007**

Tzara, C. Emergence of a classical motion from a quantum state: a further test of a theory of fuzzy measurements. **89c:81020**
Vigier, J.-P. (*with* Dewdney, C.; Holland, P. R.; Kyprianidis, A.) Causal particle trajectories and the interpretation of quantum mechanics. (*see* **89m:81006**)
— *see also* **Marić, Z.; et al., 89k:81011**
Vujičić, Milan *see* **Herbut, Fedor, 89b:81018**
Walker, Evan Harris Information measures in quantum mechanics. (*see* **89e:81003**)
— (*with* May, E. C.; Spottiswoode, S. J. P.; Piantanida, T.) Testing Schrödinger's paradox with a Michelson interferometer. (*see* **89e:81003**)
Walther, Herbert *see* **Schleich, W.; et al., 89m:81023**
Wan, K. Kong (*with* Sumner, Peter J.) Quantum potential and the spatial distribution of observable values. **89e:81010**
Wang, Lipo (*with* O'Connell, R. F.) Quantum mechanics without wave functions. (Not in MR)
Weber, Tullio *see* **Ghirardi, G. C.; et al., 89a:81007** *and* **Benatti, F.; et al., 89h:81009**
von Weizsäcker, C.-F. *see* **Drieschner, M.; et al., 89k:81006**
Werner, Reinhard Arrival time observables in quantum mechanics. (French summary) **89h:81015**
— *see also* **Summers, Stephen J., 89b:81021** *and* **89b:81022**
Wheeler, John A. *see* **Schleich, W.; et al., 89m:81023**
Wigner, E. P. The nonrelativistic nature of the present quantum mechanical measurement theory. (*see* **89m:81005**)
Wódkiewicz, K. On the equivalence of nonlocality and nonpositivity of quasidistributions in EPR correlations. **89f:81017**
— Quantum jumps and the EPR correlations. **89h:81016**
Wootters, William K. Quantum mechanics without probability amplitudes. **89c:81021**
Yanase, M. M. On limiting procedures. **89f:81018**
Ylinen, Kari *see* **Lahti, Pekka J., 89c:81013**
Zambrini, J.-C. Probability in quantum mechanics according to E. Schrödinger. (*see* **89e:81003**)
Zeilinger, Anton *see* **Horne, Michael A., 89m:81017**
Zurek, Wojciech H. Reduction of the wave packet and environment-induced superselection. (*see* **89m:81005**)

Items listed otherwise than by author

Biography:
Bohm, David J. *see* **Hiley, B. J.**, (**89m:81006**)

Items with secondary classifications in 81B05

Amann, Anton Integrable ergodic W^* systems. **89c:46085**
Bernido, Christopher C. Path integrals and quantum interference effects in a five-dimensional Kaluza-Klein theory. **89a:83056**
Bohm, David The implicate order and Prigogine's notions of irreversibility. **89b:82041**
Bouchiat, C. (*with* Gibbons, Gary) Nonintegrable quantum phase in the evolution of a spin-1 system: a physical consequence of the nontrivial topology of the quantum state-space. (French summary) **89i:81041**
(de Broglie, Louis) *see* **Lochak, Georges, 89a:81001**
Coleman, Sidney Black holes as red herrings: topological fluctuations and the loss of quantum coherence. **89i:83037**
Croca, J. R. Can the existence of de Broglie's empty wave be proven experimentally? (*see* **89j:81004**)
Dodonov, V. V. (*with* Man′ko, V. I.) Generalizations of the uncertainty relations in quantum mechanics. (Russian) **89f:81067**
— (*with* Man′ko, V. I.) Invariants and correlated states of nonstationary quantum systems. (Russian) **89i:81044**
Earman, John (*with* Norton, John Daniel) What price spacetime substantivalism? The hole story. **89f:83005**
Fraïssé, Roland La ramification selon Everett: une interprétation critiquée mais logiquement impeccable de la mécanique quantique. (English summary) [Ramification according to Everett: a critical but logically impeccable interpretation of quantum mechanics] **89h:81017**
Gerlich, Gerhard The role of probability and statistics in physics. **89b:81052**
Gibbons, Gary *see* **Bouchiat, C., 89i:81041**
Giddings, Steven B. (*with* Strominger, Andrew) Loss of incoherence and determination of coupling constants in quantum gravity. **89i:83036**
Gudder, Stanley P. Measures and states on graphs. (*see* **89h:81008**)
— State dimension of a graph. **89a:05126**
Halliwell, J. J. Correlations in the wave function of the Universe. **89a:83036**
Holtzman, Jack M. A note on Schrödinger's cat and the unexpected hanging paradox. **89k:03005**
Jamiołkowski, Andrzej Open quantum Markovian systems and their reconstructibility. **89d:82031**
Kuhn, Wilfried Analysis of the development of wave mechanics: aspects from the history of physics and the philosophy of science. **89f:81002**
Landsberg, P. T. (*with* Wise, J.) Components of probabilistic support: the two-proposition case. **89i:03044**
Leggett, A. J. Quantum mechanics at the macroscopic level. (*see* **89j:82001**)
Lichte, Hannes A short glimpse at electron interferometry. (*see* **89j:81004**)
Lochak, Georges Convergence and divergence between the ideas of de Broglie and Schrödinger in wave mechanics. **89a:81001**
Man′ko, V. I. *see* **Dodonov, V. V., 89f:81067** *and* **89i:81044**
Mukunda, N. The mathematical style of modern physics. **89f:00041**
Norton, John Daniel *see* **Earman, John, 89f:83005**
Petrosky, Tomio Y. (*with* Prigogine, Ilya) Poincaré's theorem and unitary transformations for classical and quantum systems. **89k:58130**
— *see also* **Prigogine, Ilya, 89m:81052**
Pöttinger, Jürgen Global quantities in algebraic quantum mechanics of infinite systems: classical observables or parameters? **89k:46083**
Prigogine, Ilya (*with* Petrosky, Tomio Y.) An alternative to quantum theory. **89m:81052**
— *see also* **Petrosky, Tomio Y., 89k:58130** *and* **Bohm, David, 89b:82041**
Pták, Pavel Summing of Boolean algebras and logics. **89b:03104**
Rédei, Miklós The hidden variable problem in algebraic relativistic quantum field theory. **89j:81016**
Rohrlich, Daniel A phase effect in the harmonic oscillator. **89h:81069**
Sarkar, Sarben (*with* Satchell, J. S.) Measurements on quantum chaotic systems. (Not in MR)
Satchell, J. S. *see* **Sarkar, Sarben**, (Not in MR)
(Schrödinger, Erwin) *see* **Lochak, Georges, 89a:81001** *and* **Kuhn, Wilfried, 89f:81002**
Strominger, Andrew *see* **Giddings, Steven B., 89i:83036**
Takahashi, Kin'ya Time development of distribution function in coarse-grained mechanics. **89b:81079**
Wise, J. *see* **Landsberg, P. T., 89i:03044**

81B10 Logical foundations of quantum mechanics

Abu-Zeid, O. On the existence of joint probability distributions for arbitrary incompatible observables in quantum mechanics. **89a:81009**
Alda, Václav Boolean embeddings and hidden variables. (Russian and Czech summaries) **89c:81022**
Bach, Alexander The concept of indistinguishable particles in classical and quantum physics. **89f:81019**
— Integral representations for indistinguishable classical particles: Brillouin statistics. **89f:81020**
Bán, Ján Martingale convergence theorem in quantum logics. (Russian summary) **89a:81010**
Binder, Jiří On the interplay of the centre and the state space in quantum logics. **89c:81023**
Bub, Jeffrey On the nature of randomness in quantum mechanics, or how to count quantum logically. (*see* **89h:81008**)
Busch, Paul Some realizable joint measurements of complementary observables. **89b:81023**
Cattaneo, Gianpiero (*with* Dalla Pozza, Carlo; Garola, Claudio; Nisticò, Giuseppe) On the logical foundations of the Jauch-Piron approach to quantum physics. **89j:81013**
Chovanec, Ferdinand *see* **Dvurečenskij, Anatolij, 89k:81013**
Cooke, Roger Marvin (*with* Keane, Michael; Moran, William) An elementary version of Gleason's theorem. (*see* **89h:81008**)
Coulson, T. J. *see* **Sharma, C. S., 89f:81023**
Dalla Pozza, Carlo *see* **Cattaneo, Gianpiero; et al., 89j:81013**
Deltete, Robert J. *see* **Guy, Reed A., 89g:81008**
Dvurečenskij, Anatolij Joint distributions of observables and measures with infinite values. **89c:81024**
— Converse of the Eilers-Horst theorem. **89b:81024**
— (*with* Chovanec, Ferdinand) Fuzzy quantum spaces and compatibility. **89k:81013**
— Completeness of inner product spaces and quantum logic of splitting subspaces. **89f:81021**
Fellows, Frederick Comment on: "Bell's theorem and the foundations of quantum physics" [Amer. J. Phys. **53** (1985), no. 4, 306–317; MR 86f:81013] by H. P. Stapp. **89g:81009**
Fraïssé, Roland La ramification selon Everett: une interprétation critiquée mais logiquement impeccable de la mécanique quantique. (English summary) [Ramification according to Everett: a critical but logically impeccable interpretation of quantum mechanics] **89h:81017**
Garola, Claudio *see* **Cattaneo, Gianpiero; et al., 89j:81013**
Grib, A. A. Quantum logic: possible applications. (Russian) **89e:81011**
Groenewold, H. J. Bilocality. **89c:81025**
Gudder, Stanley P. Realistic quantum probability. **89h:81018**
— *see also* **Pulmannová, Sylvia, 89b:81026**
Guy, Reed A. (*with* Deltete, Robert J.) Note on: "Bell's theorem and the foundations of quantum physics" [Amer. J. Phys. **53** (1985), no. 4, 306–317; MR 86f:81013] by H. P. Stapp. **89g:81008**
Ivanovíc, I. D. Two models violating Bell's inequality. **89j:81014**
Joshi, G. C. *see* **Nash, C. G., 89k:81014**
Keane, Michael *see* **Cooke, Roger Marvin; et al.**, (**89h:81008**)
Kläy, Matthias P. Quantum logic properties of hypergraphs. **89b:81025**
Lahti, Pekka J. States of minimal uncertainty and maximal information for position and momentum observables in quantum theory. **89d:81010**
Moran, William *see* **Cooke, Roger Marvin; et al.**, (**89h:81008**)
Nánásiová, Oľga Ordering of observables and characterization of conditional expectation. (Russian summary) **89a:81011**
Nash, C. G. (*with* Joshi, G. C.) Composite systems in quaternionic quantum mechanics. **89k:81014**
Navara, Mirko (*with* Pták, Pavel) Quantum logics with the Radon-Nikodým property. **89f:81022**
Nisticò, Giuseppe *see* **Cattaneo, Gianpiero; et al., 89j:81013**
de Obaldia, Elida (*with* Shimony, Abner; Wittel, Frederick) Amplification of Belinfante's argument for the nonexistence of dispersion-free states. **89k:81015**
Ozawa, Masanao Measuring processes and repeatability hypothesis. **89d:81011**
Peres, Asher How to differentiate between nonorthogonal states. **89e:81012**
Pták, Pavel An observation on observables. (Russian and Czech summaries) **89d:81012**
— *see also* **Navara, Mirko, 89f:81022**
Pulmannová, Sylvia Functional properties of transition probability spaces. **89d:81013**
— (*with* Gudder, Stanley P.) Geometric properties of transition amplitude spaces. **89b:81026**
— Uncertainty relations and state spaces. (French summary) **89j:81015**
— (*with* Riečanová, Zdena) A topology on quantum logics. **89m:81024**
Raggio, G. A. A remark on Bell's inequality and decomposable normal states. **89d:81014**
Rédei, Miklós The hidden variable problem in algebraic relativistic quantum field theory. **89j:81016**
Riečanová, Zdena *see* **Pulmannová, Sylvia, 89m:81024**
Sharma, C. S. (*with* Coulson, T. J.) Quantum theory in real Hilbert space. **89f:81023**
Shimony, Abner *see* **de Obaldia, Elida; et al., 89k:81015**
(Stapp, Henry P.) *see* **Guy, Reed A., 89g:81008** *and* **Fellows, Frederick, 89g:81009**

Stulpe, Werner Conditional expectations, conditional distributions, and a posteriori ensembles in generalized probability theory. **89f:81024**
Wiesbrock, H.-W. Born's postulate and reconstruction of the ψ-function in nonrelativistic quantum mechanics. **89a:81012**
Wittel, Frederick *see* **de Obaldia, Elida; et al., 89k:81015**

Items with secondary classifications in 81B10

Amann, Anton Jauch-Piron states in W^*-algebraic quantum mechanics. **89a:46128**
Dalla Chiara, M. L. Names and descriptions in quantum logic. (*see* **89h:81008**)
Gross, Herbert Different orthomodular orthocomplementations on a lattice. **89a:06020**
Gudder, Stanley P. (*with* Rüttimann, Gottfried T.) Finite function spaces and measures on hypergraphs. **89a:28011**
— (*with* Rüttimann, Gottfried T.) Positive sets in finite linear function spaces. **89a:28012**
Iturrioz, Luisa Ordered structures in the description of quantum systems: mathematical progress. **89d:06013**
Keller, Hans A. Measures on orthomodular vector space lattices. **89m:28024**
Lahti, Pekka J. Uncertainty, complementarity, and commutativity. (*see* **89h:81008**)
Ludwig, Günther Construction of a formal language and logic "a priori" or "a posteriori"? (*see* **89h:81008**)
Mączyński, Maciej A theorem on simultaneous verification of sequences of propositions in quantum logic. (*see* **89h:81008**)
Minari, Pierluigi On the algebraic and the Kripkean logical consequence relation for orthomodular quantum logic. **89b:03103**
Mirman, R. The reality and dimension of space and the complexity of quantum mechanics. **89j:81010**
Mitani, Suketaka Inferences of the logic of a complete orthomodular lattice. **89c:03100**
Mittelstaedt, Peter Constituting, naming and identity in quantum logic. (*see* **89h:81008**)
— ★ Sprache und Realität in der modernen Physik. (German) [Language and reality in modern physics] **89d:03007**
Pták, Pavel Exotic logics. **89b:03105**
Rüttimann, Gottfried T. Quantum logic and convex structures. (*see* **89h:81008**)
— (*with* Schindler, Christian) On σ-convex sets of probability measures. (Russian summary) **89d:46030**
— *see also* **Gudder, Stanley P., 89a:28011** *and* **89a:28012**
Scheibe, Erhard Quantum logic and some aspects of logic in general. (*see* **89h:81008**)
Schindler, Christian *see* **Rüttimann, Gottfried T., 89d:46030**
Shestakov, V. I. The application of three-valued logic in the theory of the dimensions of physical values. (Russian) **89a:03055**
Stachow, Ernst-Walther Structures of quantum language for individual systems. (*see* **89h:81008**)
Tomita, Kazuhisa Conjugate pair of representations in chaos and quantum mechanics. **89a:81008**
Urbanik, K. Remarks on joint distributions of observables. **89c:81039**
von Weizsäcker, C.-F. A reconstruction of quantum theory and the problem of its application to the mind. (*see* **89h:81008**)

81B99 None of the above, but in this section

Afanas′ev, G. N. On the alternative interpretation of the Aharonov-Bohm effect. (Italian and Russian summaries) **89j:81017**
Baez, John C. Is life improbable? **89m:81025**
Balazs, N. L. *see* **Balian, Roger, 89b:81027**
Balian, Roger (*with* Balazs, N. L.) Equiprobability, inference, and entropy in quantum theory. **89b:81027**
Barchielli, Alberto Comment on: "Quantum mechanics of measurements distributed in time. A path-integral formulation" [Phys. Rev. D (3) **33** (1986), no. 6, 1643–1665] by C. M. Caves. **89a:81013**
Barut, A. O. (*with* Božić, M.; Marić, Z.) Joint probabilities of noncommuting operators and incompleteness of quantum mechanics. **89k:81016**
Bourgain, J. A remark on the uncertainty principle for Hilbertian basis. **89f:81025**
Božić, M. *see* **Barut, A. O.; et al., 89k:81016**
Busch, Paul Surprising features of unsharp quantum measurements. **89j:81018**
Caianiello, Eduardo R. Quantum geometry, maximal acceleration and the world of pure spinors. (*see* **89b:81007**)
— (*with* Guz, W.) Quantum Fisher metric and uncertainty relations. **89a:81014**
Caves, Carlton M. (*with* Milburn, G. J.) Quantum-mechanical model for continuous position measurements. **89d:81015**
— *see also* **Barchielli, Alberto, 89a:81013**
Cufaro Petroni, Nicola Classical analogs for quantum systems. **89h:81019**
Dieks, D. Overlap and distinguishability of quantum states. **89d:81016**
Diósi, L. Continuous quantum measurement and Itô formalism. **89j:81019**
Efremov, V. N. (*with* Shchetochkin, V. N.) Application of topological ideas to the quantization of space. (Russian) **89f:81026**
Fraïssé, Roland La ramification selon Everett: une interprétation critiquée mais logiquement impeccable de la mécanique quantique. [Ramification according to Everett: a critical but logically impeccable interpretation of quantum mechanics] **89b:81028**
Grössing, Gerhard (*with* Zeilinger, Anton) Structures in quantum cellular automata. (*see* **89e:81003**)
Gu, Zhi Yu (*with* Qian, Shang Wu) Aharonov-Bohm scattering on parallel flux lines of the same magnitude. **89e:81013**
Guz, W. *see* **Caianiello, Eduardo R., 89a:81014**
Heil, A. (*with* Kersch, A.; Reifenhäuser, B.; Vogel, H.) Application of topological ideas to the Aharonov-Bohm effect. (Not in MR)
Hsu, Jong Ping (*with* Whan, Chagarn) Klauder's continuous representations and fuzzy coordinate variables. II. **89k:81017**
Jasselette, Pierre Locality, causality, quantum events, and all that. **89m:81026**
Jozsa, Richard An approach to the modelling of the physical continuum. **89k:81018**
Kersch, A. *see* **Heil, A.; et al.**, (Not in MR)
Landsberg, P. T. Why quantum mechanics? **89j:81020**
Maassen, Hans (*with* Uffink, J. B. M.) Generalized entropic uncertainty relations. **89f:81027**
Marić, Z. *see* **Barut, A. O.; et al., 89k:81016**
Mel′nichenko, Grigoriĭ The algebra of instruments and its application in signal recognition. (Russian. English and Lithuanian summaries) **89g:81010**
Milburn, G. J. *see* **Caves, Carlton M., 89d:81015**
Muraskin, M. Nonintegrable aesthetic field theory. **89k:81019**
(Newton, Isaac) *see* **Penrose, Roger**, (**89b:83007**)
Norton, John Daniel The logical inconsistency of the old quantum theory of black body radiation. **89c:81026**
Nottale, Laurent Sur le temps de la microphysique. (English summary) [On time in microphysics] **89k:81020**
Penrose, Roger Newton, quantum theory and reality. (*see* **89b:83007**)
Qian, Shang Wu *see* **Gu, Zhi Yu, 89e:81013**
Reifenhäuser, B. *see* **Heil, A.; et al.**, (Not in MR)
Shchetochkin, V. N. *see* **Efremov, V. N., 89f:81026**
Squires, Euan J. Nonselfadjoint observables. **89h:81020**
Szabó, László E. Simple example of quantum causal structure. **89a:81015**
Uffink, J. B. M. *see* **Maassen, Hans, 89f:81027**
Vogel, H. *see* **Heil, A.; et al.**, (Not in MR)
Whan, Chagarn *see* **Hsu, Jong Ping, 89k:81017**
Wheeler, John A. The 2-photon elementary quantum phenomenon and spacetime structure. **89m:81027**
Woo, C. H. Chaos, ineffectiveness, and the contrast between classical and quantal physics. **89m:81028**
Zeilinger, Anton *see* **Grössing, Gerhard**, (**89e:81003**)

Items with secondary classifications in 81B99

Aaberge, T. Dynamics of electrically charged extended bodies: classical and quantum systems. **89m:78013**
Afanas′ev, G. N. The scattering of charged particles on the toroidal solenoid. **89f:81246**
Aliaga, J. (*with* Otero, D.; Plastino, A.; Proto, A. N.) Quantum thermodynamics and information theory. **89f:82029**
Anton, Anatol *see* **Kidd, Richard; et al., 89j:81002**
Ardini, James *see* **Kidd, Richard; et al., 89j:81002**
Bekenstein, Jacob D. Communication and energy. **89h:81061**
Bell, J. S. Are there quantum jumps? (*see* **89m:01069**)
Blankenbecler, R. (*with* Partovi, M. H.) Quantum density matrix and entropic uncertainty. (*see* **89f:62001**)
Bondarenko, T. M. Formal and intuitive aspects of the mathematization of knowledge. (Russian) **89a:00030**
Conrad, Michael (*with* Home, D.; Josephson, Brian) Beyond quantum theory: a realist psycho-biological interpretation of physical reality. **89m:92001**
Dauns, John Metrics are Clifford algebra involutions. **89j:15042**
Engineer, M. H. Parameter space analogue of the Aharonov-Bohm effect. **89c:81052**
Fennema, Jan Contingency and lawfulness: conditions for encounter. **89m:01060**
Galgani, Luigi The problem of energy partition in the light of classical perturbation theory. (Russian summary) (*see* **89k:82001**)
Görnitz, Thomas Abstract quantum theory and space-time structure. I. Ur theory and Bekenstein-Hawking entropy. **89g:83058**
— Connections between abstract quantum theory and space-time structure. II. A model of cosmological evolution. **89g:83059**
Holland, P. R. Causal interpretation of Fermi fields. **89h:81064**
Home, D. *see* **Conrad, Michael; et al., 89m:92001**
Josephson, Brian *see* **Conrad, Michael; et al., 89m:92001**
Kaloyerou, P. N. Comments on the Hegerfeldt "paradox". **89f:81088**
Kandrup, Henry E. Conditional probabilities and entropy in (minisuperspace) quantum cosmology. **89g:83028**
Kidd, Richard (*with* Ardini, James; Anton, Anatol) Evolution of the modern photon. **89j:81002**
(Newton, Isaac) *see* **Weinberg, Steven**, (**89b:83007**)
Otero, D. *see* **Aliaga, J.; et al., 89f:82029**
Partovi, M. H. *see* **Blankenbecler, R.**, (**89f:62001**)
Plastino, A. *see* **Aliaga, J.; et al., 89f:82029**
Proto, A. N. *see* **Aliaga, J.; et al., 89f:82029**
Tikochinsky, Yoel On the generalized multiplication and addition of complex numbers. **89b:39012**
Verriest, Erik Projection techniques for model reduction. **89c:93021**
Vichnevetsky, Robert Quantum properties of wave propagation in periodic structures. **89f:81007**
Weinberg, Steven Newtonianism and today's physics. (*see* **89b:83007**)

81Cxx General mathematical topics and methods in quantum mechanics

81C05 Closed and approximate solutions to the Schrödinger, Dirac, Klein-Gordon and other quantum mechanical equations

Alves, N. A. (*with* Drigo Filho, E.) The factorisation method and supersymmetry. **89j:81021**
Arshansky, R. I. (*with* Horwitz, L. P.) Solutions of the quantum relativistic two-body bound state problem with invariant direct action potentials. **89c:81027**
Arteca, Gustavo A. (*with* Mezey, Paul G.) Approximate eigenvalues of parameter-dependent systems from boundaries of level sets. **89d:81017**

Ashbaugh, Mark S. (*with* Benguria, Rafael) Log-concavity of the ground state of Schrödinger operators: a new proof of the Baumgartner-Grosse-Martin inequality. **89i:81012**
— (*with* Benguria, Rafael) Optimal lower bound for the gap between the first two eigenvalues of one-dimensional Schrödinger operators with symmetric single-well potentials. **89f:81028**
Bachelot, Alain Solutions globales des systèmes de Dirac-Klein-Gordon. [Global solutions of Dirac-Klein-Gordon systems] **89b:81029**
Bagrov, V. G. (*with* Belov, V. V.) Destruction time of given accuracy of quasiclassical trajectory-coherent states. **89f:81029**
Barut, A. O. (*with* Inomata, A.; Wilson, Raj) A new realisation of dynamical groups and factorisation method. **89e:81014**
— (*with* Inomata, A.; Wilson, Raj) Algebraic treatment of second Pöschl-Teller, Morse-Rosen and Eckart equations. **89e:81015**
Belov, V. V. *see* **Bagrov, V. G., 89f:81029**
Bender, C. M. (*with* Dunne, Gerald V.) Exact operator solutions to Euler Hamiltonians. **89f:81030**
Benguria, Rafael *see* **Ashbaugh, Mark S., 89f:81028** *and* **89i:81012**
Bernido, Christopher C. *see* **Carpio-Bernido, M. Victoria, 89m:81031**
Berry, M. V. Quantum phase corrections from adiabatic iteration. **89c:81028**
Blanchard, Ph. (*with* Stubbe, J.; Vázquez, L.) Stability of bound states for $(1+1)$-dimensional nonlinear scalar fields. **89e:81016**
Blecher, M. H. (*with* Leach, P. G. L.) The Schrödinger equation for the $x^2 + \lambda x^2/(1 + gx^2)$ interaction. **89b:81030**
Blinder, S. M. Green's function and propagator for the one-dimensional δ-function potential. **89e:81017**
Blood, F. A. A relativistic quantum mechanical harmonic oscillator without space-time variables. **89i:81013**
Bohm, Arno *see* **Boya, L. J.; et al., 89d:81018**
Bonato, C. A. (*with* Thomaz, M. T.; Malbouisson, A. P. C.) Equivalence of the propagator of quasistatical solutions and the quantum harmonic oscillator. **89m:81029**
Boya, L. J. (*with* Kmiecik, M.; Bohm, Arno) Hydrogen atom in one dimension. **89d:81018**
Braun, M. A. On the connection between a quasipotential equation and the Schrödinger equation. (Russian. English summary) **89b:81031**
Bublik, B. N. (*with* Lyashenko, I. N.; Lyashenko, B. N.) Two-sided approximation of a solution of a problem of two centers in quantum mechanics. (Russian. English summary) **89k:81021**
Buck, B. (*with* Merchant, A. C.) Exact separation of a three-body problem in one dimension. **89m:81030**
Burt, P. B. Nonperturbative solution of nonlinear field equations. (Italian and Russian summaries) **89h:81021**
Cannata, F. (*with* Ferrari, L.) Dimensions of relativistic quantum mechanical paths. **89j:81022**
Carpio-Bernido, M. Victoria (*with* Bernido, Christopher C.) An exact solution of a ring-shaped oscillator plus a $c\sec^2\vartheta/r^2$ potential. **89m:81031**
Carusotto, Salvatore Theory of a quantum anharmonic oscillator. **89m:81032**
Castro, Eduardo A. *see* **Estrín, Darío A.; et al., 89i:81017** *and* **Fernández, Francisco M.; et al., 89m:81034**
Cederbaum, L. *see* **Meyer, Hans-Dieter; et al., 89i:81020**
Chakrabarti, Amitabha Fermions in a finite-action $\mathrm{SU}(2)$ gauge field in Minkowski space: isospin flip. **89j:81023**
Chaudhuri, R. N. False eigenvalues of the Hill determinant method. **89c:81029**
Chen, Robert L. W. Derivation of the real form of Schrödinger's equation for a nonconservative system and the unique relation between $\mathrm{Re}(\psi)$ and $\mathrm{Im}(\psi)$. **89m:81033**
Cheng, C. M. (*with* Fung, P. C. W.) The evolution operator technique in solving the Schrödinger equation, and its application to disentangling exponential operators and solving the problem of a mass-varying harmonic oscillator. **89k:81022**
Chernenko, V. G. On spectral identities for the Schrödinger operator in the presence of a virtual level. **89h:81022**
Cooper, Fred (*with* Ginocchio, Joseph N.; Wipf, Andreas) Derivation of the S-matrix using supersymmetry. **89c:81030**
Dabrowska, J. W. (*with* Khare, Avinash; Sukhatme, Uday P.) Explicit wavefunctions for shape-invariant potentials by operator techniques. **89j:81024**
Dai, An Ying Levinson's theorem for Klein-Gordon equations with potential tails. (Chinese. English summary) **89i:81015**
Dehin, D. A remark on symmetries and R-separability for the constant magnetic field system. (French summary) **89d:81019**
Dekker, H. Quantum mechanical barrier problems. I. Coherence and tunnelling in asymmetric potentials. **89g:81011**
— Quantum mechanical barrier problems. II. Dissipative tunnelling at finite temperatures for the unbiased oscillator. **89g:81012**
— Quantum mechanical barrier problems. III. Dissipative tunnelling at finite temperatures for the weakly biased oscillator. **89g:81013**
— Dynamics of the dissipative two-state system. (*see* **89e:60005**)
Demiralp, M. *see* **Taşeli, H., 89j:81033**
Ding, Yi Bing On the Schrödinger radial ladder operator. **89d:81020**
Dolveck-Guilpard, B. *see* **Sabatier, Pierre C., 89h:81026**
Dray, Tevian (*with* Manogue, Corinne A.) Bogolubov transformations and completeness. **89j:81025**
Drigo Filho, E. The Morse oscillator generalised from supersymmetry. **89k:81023**
— *see also* **Alves, N. A., 89j:81021**
Dunne, Gerald V. *see* **Bender, C. M., 89f:81030**
Dutta, A. K. (*with* Willey, R. S.) Exact analytic solutions for the quantum mechanical sextic anharmonic oscillator. **89i:81016**
El-Hajj, Ali *see* **Kobeissi, Hafez; et al.**, (Not in MR)
Esebbag, C. (*with* Nuñez, Josue Arturo; Plastino, A.) Generalised Hill-Wheeler ansatz and the eigensolutions of the one-dimensional Schrödinger equation. **89c:81031**
Estrín, Darío A. (*with* Fernández, Francisco M.; Castro, Eduardo A.) Generalized Hill determinant method. **89i:81017**
Exner, P. (*with* Šeba, P.) Mathematical models for quantum point-contact spectroscopy. **89h:81023**
— (*with* Šeba, P.; Šťovíček, Pavel) Quantum interference on graphs controlled by an external electric field. **89k:81024**
Fernández, Francisco M. (*with* Frydman, Gabriel I.; Castro, Eduardo A.) Tight bounds to the Schrödinger equation eigenvalues. **89m:81034**
— *see also* **Estrín, Darío A.; et al., 89i:81017**
Ferrari, L. *see* **Cannata, F., 89j:81022**
Fiordilino, E. A method of solution of the two-state Schrödinger equation. (Italian and Russian summaries) **89m:81035**
Flessas, George P. *see* **Leach, P. G. L.; et al., 89k:81025**
Francés, J. M. *see* **Zúñiga, J.; et al., 89i:81023**
Frenkin, A. R. *see* **Gostev, V. B., 89c:81032**
Fry, John L. *see* **Kowalski, Jacek M., 89b:81037**
Frydman, Gabriel I. *see* **Fernández, Francisco M.; et al., 89m:81034**
Fung, P. C. W. *see* **Cheng, C. M., 89k:81022**
Fushchich, V. I. (*with* Zhdanov, R. Z.) On the reduction and some new exact solutions of the nonlinear Dirac and Dirac-Klein-Gordon equations. **89j:81026**
Galić, H. Fun and frustration with hydrogen in a $1+1$ dimension. **89b:81032**
Gallas, Jason A. C. Exact analytical eigenfunctions for the $x^2 + \lambda x^2/(1 + gx^2)$ interaction. **89j:81027**
Gaveau, Bernard (*with* Schulman, L. S.) Grassmann-valued processes for the Weyl and the Dirac equations. **89b:81033**
Gershun, V. D. (*with* Pashnev, A. I.) A relativistic system of interacting points as a discrete string. (Russian. English summary) **89f:81031**
Gesztesy, F. (*with* Holden, Helge) A new class of solvable models in quantum mechanics describing point interactions on the line. **89a:81016**
— (*with* Šeba, P.) New analytically solvable models of relativistic point interactions. **89b:81034**
Ginocchio, Joseph N. *see* **Cooper, Fred; et al., 89c:81030**
Goggin, M. E. (*with* Milonni, P. W.) Driven Morse oscillator: classical chaos, quantum theory, and photodissociation. **89b:81035**
Gorringe, V. M. *see* **Leach, P. G. L.; et al., 89k:81025**
Gostev, V. B. (*with* Frenkin, A. R.) Quantum mechanics of one-dimensional motion in a field with the singularity $\lambda|x|^{-\nu}$. **89c:81032**
Grundland, A. M. (*with* Tuszyński, J. A.) Multivalued solutions of the φ^4-field equations, transition to ergodicity and bifurcations. **89m:81036**
Gurarie, D. Asymptotic inverse spectral problem for anharmomic oscillators. **89e:81018**
Hall, Richard L. Bounds on the energy of the N-body problem with linear combinations of power-law potentials and the logarithmic potential. **89a:81017**
— The equivalent two-body and delta energy lower bounds for N-boson systems. **89m:81037**
Heiss, W. D. A quantum mechanical phase transition and singular behaviour of the classical analogous case. **89j:81028**
Hidalgo, A. *see* **Zúñiga, J.; et al., 89i:81023**
Holden, Helge *see* **Gesztesy, F., 89a:81016**
Horwitz, L. P. *see* **Arshansky, R. I., 89c:81027**
Hrubý, J. Supersymmetric quantum mechanics and $\mathrm{U}(N)$-nonlinear Schrödinger equation. **89f:81032**
Inomata, A. *see* **Barut, A. O.; et al., 89e:81014** *and* **89e:81015**
Iório, Rafael José, Jr. ★ Tópicos na teoria da equação de Schrödinger. (Portuguese) [Topics in the theory of Schrödinger equations] **89m:81038**
Jannussis, A. D. *see* **Veljanoski, B., 89c:81036**
Jauslin, H. R. Exact propagator and eigenfunctions for multistable models with arbitrarily prescribed N lowest eigenvalues. **89j:81029**
Jeru, I. I. The time inversion symmetry in case of time translation existing. **89m:81039**
Kaganov, B. G. *see* **Vasil′ev, F. P.; et al., 89j:81035**
Kaloyerou, P. N. (*with* Vigier, J.-P.) Evolution time Klein-Gordon equation and derivation of its nonlinear counterpart. (Not in MR)
Kamran, N. (*with* Légaré, M.; McLenaghan, R. G.; Winternitz, P.) The classification of complete sets of operators commuting with the Dirac operator in Minkowski space-time. **89e:81019**
Kashcheev, V. N. Kinks in systems with cubic and quartic anharmonism. **89i:81018**
Khare, Avinash *see* **Dabrowska, J. W.; et al., 89j:81024**
Killingbeck, J. The rotating oscillator. **89c:81033**
— The exponential cosine screened potential. **89d:81021**
Klaus, M. Exact behavior of Jost functions at low energy. **89b:81036**
Kmiecik, M. *see* **Boya, L. J.; et al., 89d:81018**
Kobeissi, Hafez (*with* Kobeissi, Majida) A new variable step method for the numerical integration of the one-dimensional Schrödinger equation. **89j:81030**
— (*with* Kobeissi, Majida; El-Hajj, Ali) On computing eigenvalues of the Schrödinger equation for symmetrical potentials. (Not in MR)
Kobeissi, Majida *see* **Kobeissi, Hafez, 89j:81030** *and* (Not in MR)
Kondo, Anne E. (*with* Truax, D. Rodney) On a time-dependent extension of the Morse potential. **89f:81033**
Kostomarov, D. P. *see* **Vasil′ev, F. P.; et al., 89j:81035**
Kowalski, Jacek M. (*with* Fry, John L.) Tunneling in one-dimensional ideal barriers. **89b:81037**
Kučar, J. *see* **Meyer, Hans-Dieter; et al., 89i:81020**
Kukulin, V. I. *see* **Vasil′ev, F. P.; et al., 89j:81035**
Kurdgelaidze, D. F. ★ Специфика решений нелинейных уравнений теории поля. (Russian) [Specifics of the solutions of nonlinear equations in field theory] **89f:81034**
— ★ Специфика решений нелинейных уравнений теории поля и вопросы их приложения. (Russian) [Specifics of the solutions of nonlinear equations in field theory and problems of their application] **89f:81035**
Leach, P. G. L. (*with* Flessas, George P.; Gorringe, V. M.) A Rodrigues formula approach to determining closed-form solutions to the Schrödinger equation for symmetric anharmonic oscillators. **89k:81025**
— *see also* **Blecher, M. H., 89b:81030**
Légaré, M. *see* **Kamran, N.; et al., 89e:81019**
Leiber, T. *see* **Scherrer, H.; et al., 89i:81022**

Ley Koo, E. Stationary quantum states along a curve. (Spanish. English summary) **89h:81024**

Liboff, Richard L. Quantum equations of motion and the Liouville equation. **89b:81038**

Lieb, Elliott H. (*with* Yau, Horng-Tzer) Many-body stability implies a bound on the fine-structure constant. **89i:81019**

— *see also* **Rother, Wolfgang, 89a:81020**

Lin, Jian Cheng Inverse scattering for the mixed spectrum of δ potentials. **89h:81025**

López Piñeiro, A. *see* **Zúñiga, J.; et al., 89i:81023**

Lou, Sen Yue (*with* Ni, Guang Jiong) Some quantum effects in the sine-Gordon model under the Gaussian approximation. **89d:81022**

Lyashenko, B. N. *see* **Bublik, B. N.; et al., 89k:81021**

Lyashenko, I. N. *see* **Bublik, B. N.; et al., 89k:81021**

Malbouisson, A. P. C. *see* **Bonato, C. A.; et al., 89m:81029**

Manogue, Corinne A. *see* **Dray, Tevian, 89j:81025**

Manoukian, Edward B. Explicit derivation of the propagator for a Dirac delta potential. **89k:81026**

Marchesoni, Fabio (*with* Presilla, C.; Sodano, Pasquale) Supersymmetry and activation rates. **89m:81040**

McLenaghan, R. G. *see* **Kamran, N.; et al., 89e:81019**

Merchant, A. C. *see* **Buck, B., 89m:81030**

Merle, F. Existence of stationary states for nonlinear Dirac equations. **89k:81027**

Meyer, Hans-Dieter (*with* Kučar, J.; Cederbaum, L.) Time-dependent rotated Hartree: formal development. **89i:81020**

Mezey, Paul G. *see* **Arteca, Gustavo A., 89d:81017**

Milonni, P. W. *see* **Goggin, M. E., 89b:81035**

Mur, V. D. *see* **Vaĭnberg, V. M.; et al., 89h:81029**

Ni, Guang Jiong *see* **Lou, Sen Yue, 89d:81022**

Nikitin, A. G. On relativistic and nonrelativistic Coulomb problems for a particle of arbitrary spin. **89b:81039**

Nuñez, Josue Arturo *see* **Esebbag, C.; et al., 89c:81031**

Ojha, P. C. SO(2, 1) Lie algebra, the Jacobi matrix and the scattering states of the Morse oscillator. **89m:81041**

Olivares del Valle, F. J. *see* **Zúñiga, J.; et al., 89i:81023**

Pankratova, T. F. Splitting of the eigenvalues in a double potential well under partial breakdown of symmetry. (Russian) **89a:81018**

Pashnev, A. I. *see* **Gershun, V. D., 89f:81031**

Pažma, V. *see* **Prešnajder, P., 89f:81036**

Pimpale, Ashok *see* **Razavy, M., 89i:81021**

Plastino, A. *see* **Esebbag, C.; et al., 89c:81031**

Popov, V. S. *see* **Vaĭnberg, V. M.; et al., 89h:81029**

Prants, S. V. An algebraic approach to a system of two coupled oscillators. (Russian) (*see* **89d:81002**)

Presilla, C. *see* **Marchesoni, Fabio; et al., 89m:81040**

Prešnajder, P. (*with* Pažma, V.) The short-time propagator and the boundary conditions in the quantum mechanics. **89f:81036**

Quesne, C. A new ring-shaped potential and its dynamical invariance algebra. **89j:81031**

Ranganathan, P. V. General solution of Kostin's equation arising in quantum mechanics. **89b:81040**

Razavy, M. (*with* Pimpale, Ashok) Quantum tunneling: a general study in multi-dimensional potential barriers with and without dissipative coupling. **89i:81021**

Requena, A. *see* **Zúñiga, J.; et al., 89i:81023**

Riordan, Frank A shooting approximation to wavefunctions with harmonic amplitude. **89a:81019**

Risken, H. *see* **Scherrer, H.; et al., 89i:81022**

Robert, Didier (*with* Tamura, Hideo) Semiclassical estimates for resolvents and asymptotics for total scattering cross-sections. (French summary) **89b:81041**

Rosen, Gerald Connection between the lower bounds on quantum-mechanical energy. **89d:81023**

Rother, Wolfgang A comment on a paper of E. H. Lieb: "Analysis of the Thomas-Fermi-von Weizsäcker equation for an infinite atom without electron repulsion" [Comm. Math. Phys. **85** (1982), no. 1, 15–25; MR 83m:81020]. (German. English summary) **89a:81020**

Roy, C. L. A note on spatial behaviour of solutions of the one-dimensional Dirac equation. **89e:81020**

Roy, Pinaki (*with* Roychoudhury, Rajkumar) New integral solutions of the nonpolynomial oscillator $V(x)=x^2+\lambda x^2/(1+gx^2)$ when $\lambda=2g(2-3g)$. **89a:81021**

— (*with* Roychoudhury, Rajkumar) On exact solutions of the doubly anharmonic oscillator. **89b:81042**

— (*with* Roychoudhury, Rajkumar) Exact analytical solutions of the nonpolynomial oscillator $V(x)=x^2+\lambda x^2/(1+gx^2)$. **89d:81024**

Roychoudhury, Rajkumar (*with* Varshni, Y. P.) Shifted $1/N$ expansion and exact solutions for the potential $V(r)=-Z/r+gr+\lambda r^2$. **89g:81014**

— *see also* **Roy, Pinaki, 89a:81021; 89b:81042** *and* **89d:81024**

Sabatier, Pierre C. (*with* Dolveck-Guilpard, B.) On modeling discontinuous media. One-dimensional approximations. **89h:81026**

Savchenko, A. Ya. On the eigenvalues of the Schrödinger equation. (Russian) **89c:81034**

Scherrer, H. (*with* Risken, H.; Leiber, T.) Eigenvalues of the Schrödinger equation with rational potentials. **89i:81022**

Schulman, L. S. *see* **Gaveau, Bernard, 89b:81033**

Šeba, P. A remark about the point interaction in one dimension. (German summary) **89b:81043**

— On the absorption of eigenvalues by continuous spectrum in the one- and three-dimensional Dirac equation. **89k:81028**

— The complex scaling method for Dirac resonances. **89j:81032**

— *see also* **Gesztesy, F., 89b:81034; Exner, P., 89h:81023** *and* **89k:81024**

Shcheblykin, A. V. *see* **Vaĭnberg, V. M.; et al., 89h:81029**

Shubova, M. A. Construction of the eigenfunctions of the discrete spectrum, and the selection principle for the eigenvalues for the radial Schrödinger operator with a potential that is close to the Coulomb potential. **89m:81042**

Siedentop, Heinz (*with* Weikard, Rudi) On the leading energy correction for the statistical model of the atom: interacting case. **89a:81022**

Sodano, Pasquale *see* **Marchesoni, Fabio; et al., 89m:81040**

de Souza Dutra, Álvaro Exact solutions of the Schrödinger equation for Coulombian atoms in the presence of some anharmonic oscillator potentials. **89h:81027**

Šťovíček, Pavel *see* **Exner, P.; et al., 89k:81024**

Stubbe, J. *see* **Blanchard, Ph.; et al., 89e:81016**

Sukhatme, Uday P. *see* **Dabrowska, J. W.; et al., 89j:81024**

Tamura, Hideo *see* **Robert, Didier, 89b:81041**

Taşeli, H. (*with* Demiralp, M.) Studies on algebraic methods to solve linear eigenvalue problems: generalised anharmonic oscillators. **89j:81033**

Thomaz, M. T. *see* **Bonato, C. A.; et al., 89m:81029**

Tolar, Jiří On a quantum mechanical d'Alembert principle. **89k:81029**

Trlifaj, L. The one-dimensional Schrödinger equation and a periodic potential. **89c:81035**

Truax, D. Rodney *see* **Kondo, Anne E., 89f:81033**

Turbiner, A. V. (*with* Ushveridze, A. G.) Spectral singularities and quasi-exactly solvable quantal problem. **89a:81023**

— (*with* Ushveridze, A. G.) Anharmonic oscillator: constructing the strong coupling expansions. **89h:81028**

Tuszyński, J. A. *see* **Grundland, A. M., 89m:81036**

Ulmer, W. A solution spectrum of the nonlinear Schrödinger equation. **89j:81034**

Ushveridze, A. G. Analytic properties of energy levels in models with delta-function potentials. **89d:81025**

— Algebraic convergent theory of perturbations for quantum systems with a discrete spectrum. (Russian. English and Georgian summaries) **89e:81021**

— *see also* **Turbiner, A. V., 89a:81023** *and* **89h:81028**

Vaĭnberg, V. M. (*with* Mur, V. D.; Popov, V. S.; Shcheblykin, A. V.) $1/n$-expansion for the Stark effect in a strong field. **89h:81029**

Van Casteren, Jan A. Integral kernels for Schrödinger type equations. **89i:81014**

Varshni, Y. P. *see* **Roychoudhury, Rajkumar, 89g:81014**

Vasil′ev, F. P. (*with* Kaganov, B. G.; Kostomarov, D. P.; Kukulin, V. I.) Application of the penalty function method for solving multiparticle quantum mechanics problems. (Russian) **89j:81035**

Vázquez, L. *see* **Blanchard, Ph.; et al., 89e:81016**

Veljanoski, B. (*with* Jannussis, A. D.) Damped harmonic oscillator with complex coefficient of friction. **89c:81036**

Vigier, J.-P. *see* **Kaloyerou, P. N.**, (Not in MR)

Vrscay, E. R. Nonlinear "self-interaction" Hamiltonians of the form $H^{(0)}+\lambda\langle r^p\rangle r^q$ and their Rayleigh-Schrödinger perturbation expansions. **89f:81037**

Wang, Qin Mou Algebraic structure and kernel of the Schrödinger equation. **89c:81037**

Weikard, Rudi *see* **Siedentop, Heinz, 89a:81022**

Willey, R. S. *see* **Dutta, A. K., 89i:81016**

Wilson, Raj *see* **Barut, A. O.; et al., 89e:81014** *and* **89e:81015**

Winternitz, P. *see* **Kamran, N.; et al., 89e:81019**

Wipf, Andreas *see* **Cooper, Fred; et al., 89c:81030**

Yamaleev, R. M. ★ О решениях уравнения Дирака в спинорном пространстве. (Russian) [Solutions of the Dirac equation in a spinor space] **89k:81030**

Yau, Horng-Tzer *see* **Lieb, Elliott H., 89i:81019**

Zhdanov, R. Z. *see* **Fushchich, V. I., 89j:81026**

Znojil, M. ★ The double anharmonic potential $ax^2+bx^4+cx^6$ and the extended continued fractions. **89f:81038**

— Vectorial continued fractions and an algebraic construction of effective Hamiltonians. **89m:81043**

— Singular anharmonicities and the analytic continued fractions. **89j:81036**

Zúñiga, J. (*with* Hidalgo, A.; Francés, J. M.; Requena, A.; López Piñeiro, A.; Olivares del Valle, F. J.) Analytical expressions for vibrational matrix elements of Morse oscillators. **89i:81023**

Items with secondary classifications in 81C05

Alvarez, Gabriel Coupling-constant behavior of the resonances of the cubic anharmonic oscillator. **89c:34034**

Arutyunyan, T. N. The canonical Dirac operator with a partially given spectrum. (Russian. Armenian summary) **89a:34029**

Banerjee, P. P. (*with* Cao, Guanghui) Periodic and aperiodic solitary wave solutions of the nonlinear Klein-Gordon equation without dispersion. **89h:35276**

Baseia, B. Extended Schrödinger equations leading to critical phenomena. **89m:81206**

Berlyand, L. V. (*with* Dobrokhotov, S. Yu.) "Operator separation of variables" in problems of short-wave asymptotics for differential equations with rapidly oscillating coefficients. (Russian) **89d:58132**

Biedenharn, L. C. *see* **Wu, Jian Shi; et al., 89b:81238**

Blanchard, Ph. (*with* Stubbe, J.; Vázquez, L.) On the stability of solitary waves for classical scalar fields. **89a:35168**

— (*with* Stubbe, J.; Rezende, J.) New estimates on the number of bound states of Schrödinger operators. **89h:35247**

Brito, Ricardo (*with* Cuesta, José Antonio; Rañada, Antonio F.) Absence of dissipative solutions of the Schrödinger and Klein-Gordon equations with logarithmic nonlinearity. **89f:35176**

Bruckstein, Alfred M. (*with* Kailath, Thomas) On discrete Schrödinger equations and their two-component wave equation equivalents. **89a:34019**

Buslaev, V. S. (*with* Rybakina, E. A.) A trace formula for the nonlinear Klein-Gordon equation. (Russian) **89c:35103**

Cao, Guanghui *see* **Banerjee, P. P., 89h:35276**

Carroll, C. E. (*with* Hioe, F. T.) Driven three-state model and its analytic solutions. **89d:81135**

Castro, Eduardo A. *see* **Fernández, Francisco M., 89b:34057**

Chaljub-Simon, Alice Solution positive à décroissance gaussienne pour une équation différentielle non linéaire à coefficient trinôme. (English summary) [Positive solution with Gaussian decay for a nonlinear differential equation with a trinomial coefficient] **89d:35147**

Chen, Yun Mei The existence of global solutions to systems consisting of a complex Schrödinger equation coupled to a real Klein-Gordon equation. (Chinese. English summary) **89a:35176**

Chen, Zong Yun (*with* Huang, Nian Ning; Xiao, Yi) Method for finding soliton solutions of the nonlinear Schrödinger equation. **89k:35199**

Colegrave, R. K. (*with* Mannan, M. A.) Invariants for the time-dependent harmonic oscillator. **89i:70026**

— (*with* Croxson, P.; Mannan, M. A.) Complex invariants for the time-dependent harmonic oscillator. **89m:70025**

Croxson, P. *see* **Colegrave, R. K.; et al., 89m:70025**

Cuesta, José Antonio *see* **Brito, Ricardo; et al., 89f:35176**

Dai, An Ying *see* **Ma, Zhong Qi, 89m:34032**

Dias, João-Paulo (*with* Figueira, Mário) Time decay for the solutions of a nonlinear Dirac equation in one space dimension. **89d:35152**

Dobrokhotov, S. Yu. *see* **Berlyand, L. V., 89d:58132**

Elphick, Christian Classes of exactly solvable nonlinear evolution equations for Grassmann variables: the normal form method. **89b:58089**

Falkensteiner, P. (*with* Grosse, H.) Fermions in interaction with time-dependent fields. **89j:81087**

Fan, Hong Yi New state vector representation for the two-dimensional harmonic oscillator. **89b:81097a**

— A convenient representation for describing an electron in a uniform magnetic field. **89b:81097b**

— Errata: "New state vector representation for the two-dimensional harmonic oscillator". **89b:81097c**

Fernández, Francisco M. (*with* Castro, Eduardo A.) Eigenvalues from the Riccati equation. **89b:34057**

Fernandez, J.-C. (*with* Passot, Th.; Politano, H.; Reinisch, G.; Taki, M.) Sturm-Liouville description of sine-Gordon soliton dynamics. **89d:35154**

Ferro Fontán, Constantino *see* **Ponce Dawson, Silvina, 89c:81007**

Figueira, Mário *see* **Dias, João-Paulo, 89d:35152**

Gagnon, L. (*with* Winternitz, P.) Exact solutions of the cubic and quintic nonlinear Schrödinger equation for a cylindrical geometry. **89m:35190**

Gaudin, Michel Vers le spectre du triangle? (English summary) [Toward the spectrum of the triangle?] **89e:58113**

Gérard, C. (*with* Sjöstrand, J.) Resonances en limite semiclassique et exposants de Lyapunov. (English summary) [Resonances in the semiclassical limit and Lyapunov exponents] **89f:35057**

— (*with* Grigis, Alain) Precise estimates of tunneling and eigenvalues near a potential barrier. **89h:34024**

Gerry, Christopher C. (*with* Kiefer, Jerry) Radial coherent states for the Coulomb problem. **89m:81202**

Grigis, Alain *see* **Gérard, C., 89h:34024**

Grillakis, Manoussos Linearized instability for nonlinear Schrödinger and Klein-Gordon equations. **89m:35192**

Grosse, H. On the level order for Dirac operators. **89e:81026**

— *see also* **Falkensteiner, P., 89j:81087**

Grundland, A. M. (*with* Tuszyński, J. A.) Symmetry breaking and bifurcating solutions in the classical complex φ^6 field theory. **89e:81150**

Gutkin, Eugene Quantum nonlinear Schrödinger equation. I. Intertwining operators. (French summary) **89a:35182**

— Quantum nonlinear Schrödinger equation. II. Explicit solution. **89g:35099**

Hioe, F. T. *see* **Carroll, C. E., 89d:81135**

Hodgson, R. J. W. Precise shooting methods for the Schrödinger equation. **89d:81003**

Hoffmann-Ostenhof, Maria (*with* Hoffmann-Ostenhof, Thomas) On the asymptotics of nodes of L^2-solutions of Schrödinger equations in dimensions $\geqq 3$. **89k:35062**

Hoffmann-Ostenhof, Thomas *see* **Hoffmann-Ostenhof, Maria, 89k:35062**

Hofstee, P. (*with* Tip, A.) Fourier transforms and the dilatation group. **89h:47058**

Hogreve, H. On the monotonic dependence of atomic excitation energies on the nuclear charge parameter Z. **89f:81276**

Huang, Nian Ning *see* **Chen, Zong Yun; et al., 89k:35199**

Hurst, C. A. *see* **McGuire, J. B., 89c:81178**

Iachello, F. *see* **Wu, Jian Shi; et al., 89b:81238**

Ishkhanyan, A. M. New classes of analytic solutions of a two-level problem. (Russian. English and Armenian summaries) **89k:81211**

It·s, A. R. (*with* Rybin, A. V.; Sall′, M. A.) On the exact integration of the nonlinear Schrödinger equation. **89h:35295**

Iwasaki, Katsunori Scattering theory for 4th order differential operators. I, II. **89i:34023**

Jones, Christopher K. R. T. An instability mechanism for radially symmetric standing waves of a nonlinear Schrödinger equation. **89a:35184**

Kailath, Thomas *see* **Bruckstein, Alfred M., 89a:34019**

Kalyakin, L. A. The matching method in a problem of asymptotic decomposition of a plane wave packet in a dispersive medium. **89k:35216**

Kawai, E. Fields and their propagators on hyperspheres. (Italian and Russian summaries) **89k:81103**

Khare, Avinash (*with* Sukhatme, Uday P.) Scattering amplitudes for supersymmetric shape-invariant potentials by operator methods. **89m:81185**

Kiefer, Jerry *see* **Gerry, Christopher C., 89m:81202**

Kon′shin, O. V. (*with* Rudak, È. A.) Solution of the Schrödinger equation for a potential with a fuzzy boundary for $l \neq 0$. (Russian. English summary) (Not in MR)

Léon, Jean-François Existence et unicité de la solution positive de l'équation TFW sans répulsion électronique. (English summary) [Existence and uniqueness of the positive solution of the TFW equation without electron repulsion] **89f:35074**

Levi, D. On a new Darboux transformation for the construction of exact solutions of the Schrödinger equation. **89f:58144**

Ma, Zhong Qi (*with* Dai, An Ying) Integral equations with symmetrical kernel applied to a system with a Dirac-type spectrum. **89m:34032**

Mannan, M. A. *see* **Colegrave, R. K., 89i:70026** *and* **89m:70025**

Martinez, André (*with* Rouleux, Michel) Effet tunnel entre puits dégénérés. [The tunnel effect between degenerate wells] **89h:35085**

McGuire, J. B. (*with* Hurst, C. A.) Three interacting particles in one dimension: an algebraic approach. **89c:81178**

Mezincescu, G. A. Lifschitz singularities for periodic operators plus random potentials. **89k:82056**

Molzahn, F. H. (*with* Osborn, T. A.) Connected graphs representations of the quantum propagator and semiclassical expansions. **89b:81260**

— A quantum WKB approximation without classical trajectories. **89k:34101**

Morris, J. Ll. *see* **Tourigny, Y., 89d:65090**

Nozaki, Kazuhiro Hirota's method and the singular manifold expansion. **89a:35201**

Osborn, T. A. *see* **Molzahn, F. H., 89b:81260**

Passot, Th. *see* **Fernandez, J.-C.; et al., 89d:35154**

Pavlov, B. S. The theory of extensions, and explicitly solvable models. (Russian) **89b:47009**

Pavlov, M. V. The nonlinear Schrödinger equation and the Bogolyubov-Whitham averaging method. (Russian. English summary) **89a:35202**

Politano, H. *see* **Fernandez, J.-C.; et al., 89d:35154**

Ponce Dawson, Silvina (*with* Ferro Fontán, Constantino) Extension of the Ablowitz-Ladik method to the derivative nonlinear Schrödinger equation. **89c:81007**

Rañada, Antonio F. *see* **Brito, Ricardo; et al., 89f:35176**

Ranganathan, P. V. Homogeneous solutions of some second order nonlinear partial differential equations. **89m:35039**

Reid, Gregory J. Determination of the symmetries characterising separable systems in Euclidean spaces. **89f:70025**

Reinisch, G. *see* **Fernandez, J.-C.; et al., 89d:35154**

Rezende, J. *see* **Blanchard, Ph.; et al., 89h:35247**

Rodin, Yu. L. The inverse problem for the Schrödinger equation and the Riemann boundary problem. **89m:35200**

Rother, Wolfgang Goodisman's correction of the Thomas-Fermi-von Weizsäcker theory of atoms. (German summary) **89j:81277**

Rouleux, Michel *see* **Martinez, André, 89h:35085**

Roy, Barnana *see* **Roychoudhury, Rajkumar; et al., 89i:81149**

Roychoudhury, Rajkumar (*with* Roy, Barnana; Varshni, Y. P.) Algebraic treatment of the potential $V(r) = -v/r[1 - r\lambda(1 - 1/Z)/(1 + r\lambda)]$. **89i:81149**

Rudak, È. A. *see* **Kon′shin, O. V.,** (Not in MR)

Rybakina, E. A. *see* **Buslaev, V. S., 89c:35103**

Rybin, A. V. *see* **It·s, A. R.; et al., 89h:35295**

Sall′, M. A. *see* **It·s, A. R.; et al., 89h:35295**

Shizuya, Ken-ichi Fermionic representation of the Wess-Zumino term and the chiral Schwinger model. **89j:81115**

Sjöstrand, J. *see* **Gérard, C., 89f:35057**

Spencer, Thomas Crawford The Schrödinger equation with a random potential—a mathematical review. **89e:60122**

Stahlhofen, A. *see* **Wu, Jian Shi; et al., 89b:81238**

Stubbe, J. *see* **Blanchard, Ph.; et al., 89a:35168** *and* **89h:35247**

Sukhatme, Uday P. *see* **Khare, Avinash, 89m:81185**

Sukumar, C. V. Supersymmetry and potentials with bound states at arbitrary energies. II. **89d:81114**

Syroid, I.-P. P. The nonselfadjoint one-dimensional Dirac operator on the whole axis. (Russian) **89b:34064**

Taki, M. *see* **Fernandez, J.-C.; et al., 89d:35154**

Tip, A. *see* **Hofstee, P., 89h:47058**

Tourigny, Y. (*with* Morris, J. Ll.) An investigation into the effect of product approximation in the numerical solution of the cubic nonlinear Schrödinger equation. **89d:65090**

Turbiner, A. V. Quasi-exactly-solvable problems and sl(2) algebra. **89j:58051**

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Tuszyński, J. A. *see* **Grundland, A. M., 89e:81150**

Uchiyama, Jun Examples of exponential decay of eigenfunctions of magnetic Schrödinger operators. **89d:35045**

Ushveridze, A. G. Special case of the separation of variables in the multidimensional Schrödinger equation. **89k:58302**

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Varshni, Y. P. *see* **Roychoudhury, Rajkumar; et al., 89i:81149**

Vázquez, L. *see* **Blanchard, Ph.; et al., 89a:35168**

Winternitz, P. *see* **Gagnon, L., 89m:35190**

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Xiang, Xin Min Spectral method for solving the system of equations of Schrödinger-Klein-Gordon field. **89f:35044**

Xiao, Yi *see* **Chen, Zong Yun; et al., 89k:35199**

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Yang, Yi Song Nonexistence of the global energy minimiser of the abelian vortex model with sources. **89k:81084**

Zhidkov, P. E. Stability of solitary waves. (Russian) (*see* **89g:82003**)

Znojil, M. ★ The structure of bound states in the polynomial potentials. **89g:81095**

81C10 Selfadjoint operator theory in quantum mechanics; essential selfadjointness of the Hamiltonian

Albeverio, S. (*with* Gesztesy, F.; Høegh-Krohn, R.; Holden, Helge) Point interactions in two dimensions: basic properties, approximations and applications to solid state physics. **89d:81026**

Antoine, J.-P. (*with* Gesztesy, F.; Shabani, J.) Exactly solvable models of sphere interactions in quantum mechanics. **89d:81027**

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Buslaev, V. S. (*with* Chernenko, V. G.) Spectral identities for a system of many quantum particles. (Russian. English summary) **89a:81024**

Cazenave, Thierry *see* **Balabane, Mikhaël; et al., 89e:81022**

Chernenko, V. G. *see* **Buslaev, V. S., 89a:81024**

Chojnacki, Wojciech Spectral analysis of Schrödinger operators in nonseparable Hilbert spaces. **89j:81037**

Dai, An Ying *see* **Ma, Zhong Qi, 89h:81030**
Douady, A. *see* **Balabane, Mikhaël; et al., 89e:81022**
Englisch, H. (*with* Šeba, P.) The stability of the Dirichlet and Neumann boundary conditions. **89f:81040**
— (*with* Schröder, Manfred; Šeba, P.) The free Laplacian with attractive boundary conditions. (French summary) **89f:81039**
Exner, P. (*with* Šeba, P.) A simple model of thin-film point contact in two and three dimensions. **89k:81031**
— (*with* Šeba, P.) Quantum-mechanical splitters: how should one understand them? **89c:81038**
Fernández, Francisco M. Time-evolution operator and propagator for quadratic Hamiltonians. **89e:81023**
Gesztesy, F. *see* **Albeverio, S.; et al., 89d:81026** *and* **Antoine, J.-P.; et al., 89d:81027**
Goldstein, Jerome A. (*with* Rieder, Gisèle Ruiz) The Coulomb potential in higher dimensions. **89d:81028**
Grabowski, Marian The entropy of position and the spreading of wave packets. **89g:81015**
Hislop, Peter D. (*with* Sigal, Israel M.) Shape resonances in quantum mechanics. **89m:81044**
Høegh-Krohn, R. *see* **Albeverio, S.; et al., 89d:81026**
Holden, Helge *see* **Albeverio, S.; et al., 89d:81026**
Intissar, Abdelkader Étude spectrale d'une famille d'opérateurs non-symétriques intervenant dans la théorie des champs de reggeons. (English summary) [Study of the spectrum of a family of nonsymmetric operators arising in reggeon field theory] **89k:81032**
Kotani, Shinichi Link between periodic potentials and random potentials in one-dimensional Schrödinger operators. **89b:81044**
Kvitsinskiĭ, A. A. A trace formula for the Schrödinger operator with Coulomb potential in a three-dimensional space. (Russian. English summary) **89f:81041**
Ma, Zhong Qi (*with* Dai, An Ying) On the Hermiticity of the Hamiltonian of a radial equation. (Chinese. English summary) **89h:81030**
Merle, F. *see* **Balabane, Mikhaël; et al., 89e:81022**
Pandey, R. K. (*with* Varma, V. S.) Study of discontinuities in eigenvalue spectra of some model Hamiltonians. **89m:81045**
Rieder, Gisèle Ruiz *see* **Goldstein, Jerome A., 89d:81028**
Robert, Didier ★ Autour de l'approximation semi-classique. (French) [On semiclassical approximation] **89g:81016**
Schröder, Manfred *see* **Englisch, H.; et al., 89f:81039**
Šeba, P. Some remarks on the δ'-interaction in one dimension. **89e:81024**
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Shabani, J. Finitely many δ interactions with supports on concentric spheres. **89e:81025**
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Shondin, Yu. G. Quantum mechanical models in $\mathbf{R}^n$ connected with extensions of the energy operator in a Pontryagin space. **89f:81042**
Sigal, Israel M. *see* **Hislop, Peter D., 89m:81044**
Todorov, T. D. Application of nonstandard Hilbert space to quantum mechanics. **89b:81045**
Urbanik, K. Remarks on joint distributions of observables. **89c:81039**
Varma, V. S. *see* **Pandey, R. K., 89m:81045**
Wilkinson, Michael Random matrix theory in semiclassical quantum mechanics of chaotic systems. **89h:81031**
Zaretskaya, M. A. The joint spectrum of a system of commuting quadratic quantum Hamiltonians. (Russian summary) **89b:81046**

Items with secondary classifications in 81C10

Alicki, Robert (*with* Makowiec, Danuta) Functional integrals for parabolic differential equations. II. Time-dependent generators. **89f:35094**
Balazs, N. L. (*with* Schmit, C.; Voros, A.) Spectral fluctuations and zeta functions. **89b:58171**
Balslev, Erik Bounds on many-body resonances. (French summary) **89b:81229**
Berthier, Anne-Marie (*with* Georgescu, V.) On the point spectrum of Dirac operators. **89b:35131**
Briet, Ph. *see* **Combes, J. M.; et al., 89a:35150**
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Duclos, P. *see* **Combes, J. M.; et al., 89a:35150**
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Englisch, H. (*with* Schröder, Manfred) Schrödinger operators with random boundary conditions. (*see* **89f:82003**)
Exner, P. (*with* Šeba, P.; Šťovíček, Pavel) Quantum interference on graphs controlled by an external electric field. **89k:81024**
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Fulling, S. A. (*with* Kennedy, Gerard) A closed form for the symbol of the resolvent parametrix of an elliptic operator. **89g:58215**
Georgescu, V. *see* **Berthier, Anne-Marie, 89b:35131**
Gostev, V. B. (*with* Frenkin, A. R.) Quantum mechanics of one-dimensional motion in a field with the singularity $\lambda|x|^{-\nu}$. **89c:81032**
Grubb, A. (*with* Sharma, C. S.) Minimax theory simplified. (Italian and Russian summaries) **89b:49066**
Howland, James S. Perturbation theory of dense point spectra. **89b:47023**
Ikebe, Teruo (*with* Shimada, Shin-ichi) Scattering with penetrable wall potentials. **89d:35136**
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— Bounds for the number of negative eigenvalues of the Schrödinger operator with a strong magnetic field. **89j:35098b**
Kennedy, Gerard *see* **Fulling, S. A., 89g:58215**
Kirsch, Werner (*with* Simon, Barry) Comparison theorems for the gap of Schrödinger operators. **89b:35127**
Koshmanenko, V. D. Uniqueness of a singularly perturbed operator. **89i:47085**
Kotani, Shinichi Absolutely continuous spectrum of one-dimensional random Schrödinger operators and Hamiltonian systems. **89g:60202**
Lahti, Pekka J. (*with* Ylinen, Kari) On total noncommutativity in quantum mechanics. **89c:81013**
Makowiec, Danuta *see* **Alicki, Robert, 89f:35094**
Malozemov, L. A. Eigenvalues of a perturbed almost periodic operator that are embedded into a continuous spectrum. **89i:47084**
Mohamed, Abdérémane (*with* Nourrigat, J.) Borne inférieure du spectre de l'opérateur de Schrödinger. [Lower bound for the spectrum of the Schrödinger operator] (*see* **89g:35002**)
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Nagase, Michihiro (*with* Umeda, Tomio) On the essential selfadjointness of pseudo-differential operators. **89h:47075**
Nourrigat, J. *see* **Mohamed, Abdérémane, (89g:35002)**
Pastur, L. A. Spectral properties of metrically transitive operators and related problems. **89f:47073**
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Pavlov, B. S. The theory of extensions, and explicitly solvable models. (Russian) **89b:47009**
— The spectral aspect of superconductivity—the pairing of electrons. (Russian. English summary) **89b:81262**
Petrukhnovskiĭ, S. I. *see* **Dyakin, V. V., 89k:35163**
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Riedel, Norbert Almost Mathieu operators and rotation C^*-algebras. **89a:47063**
Robert, Didier Analyse semi-classique de l'effet tunnel. [Semiclassical analysis of the tunnel effect] **89c:58127**
Sabatier, Pierre C. Remark on the three-dimensional mixed impedance potential equation. **89d:81045a**
— Corrigendum: "Remark on the three-dimensional mixed impedance potential equation". **89d:81045b**
Schmit, C. *see* **Balazs, N. L.; et al., 89b:58171**
Schröder, Manfred *see* **Englisch, H., (89f:82003)**
Šeba, P. *see* **Exner, P.; et al., 89k:81024**
Shao, Chang Gui *see* **Xu, Bang Qing; et al., 89b:81235**
Sharma, C. S. *see* **Grubb, A., 89b:49066**
Shimada, Shin-ichi *see* **Ikebe, Teruo, 89d:35136**
Simon, Barry *see* **Kirsch, Werner, 89b:35127**
Sitenko, Yu. A. Electron charge fractionization in a magnetic field in domains with boundaries. **89j:81251**
Spencer, Thomas Crawford Random and quasiperiodic Schrödinger operators. **89h:35086**
Šťovíček, Pavel *see* **Exner, P.; et al., 89k:81024**
Streit, L. (*with* Todorov, I. T.) Exact solution of a relativistic quasipotential equation for charged spinless particles. **89c:81179**
Sylvester, John *see* **Nachman, Adrian; et al., 89g:35082**
Takeda, Masayoshi On the uniqueness of the Markovian selfadjoint extension. **89e:81036**
Tkachenko, V. A. *see* **Pastur, L. A., 89d:34056**
Todorov, I. T. *see* **Streit, L., 89c:81179**
Uhlmann, Armin Parallel transport and "quantum holonomy" along density operators. **89h:58207**
Uhlmann, Gunther *see* **Nachman, Adrian; et al., 89g:35082**
Umeda, Tomio *see* **Nagase, Michihiro, 89h:47075**
Veliev, O. A. The spectrum of multidimensional periodic operators. (Russian) **89j:35102**
Vogelsang, Volker Selfadjoint extensions of Dirac operators for nonspherically symmetric potentials in Coulomb scattering. **89b:35133**
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Voros, A. Spectral functions, special functions and the Selberg zeta function. **89b:58173**
— *see also* **Balazs, N. L.; et al., 89b:58171**
Wang, Qin Mou Algebraic structure and kernel of the Schrödinger equation. **89c:81037**
Wang, Yong Jiu *see* **Xu, Bang Qing; et al., 89b:81235**
Xu, Bang Qing (*with* Shao, Chang Gui; Wang, Yong Jiu) S-matrix characterization. **89b:81235**
Yajima, Kenji Some notes conerning the Schrödinger equation—quasiclassical approximation and time-periodicity. (Japanese) **89b:81234**
Ylinen, Kari *see* **Lahti, Pekka J., 89c:81013**
Zee, A. Nonabelian gauge structure in nuclear quadrupole resonance. **89i:81147**

81C12 Perturbation theory for operators

Adhikari, R. (*with* Dutt, Ranabir; Varshni, Y. P.) On the averaging of energy eigenvalues in the supersymmetric WKB method. **89h:81032**
Brault, Pascal (*with* Vallée, Olivier; Nguyet Tran Minh) Nonperturbative uniform wavefunctions of coupled radial Schrödinger equations. **89d:81029**
Brits, S. J. M. *see* **Steeb, W.-H.; et al., 89j:81039**
Caliceti, E. (*with* Goldoni, L.; Graffi, S.) Probability of convergence of perturbation theory for hydrogen photoionization. **89b:81047**
Csépes, Z. (*with* Pipek, J.) An effective recursive algorithm for generating many-body Hugenholtz and Goldstone diagrams. **89f:81043**
Dutt, Ranabir *see* **Adhikari, R.; et al., 89h:81032**
Frenkin, A. R. *see* **Gostev, V. B., 89h:81033**
Goldoni, L. *see* **Caliceti, E.; et al., 89b:81047**
Gompa, Raghuramaiah *see* **Kummer, Martin P., 89k:81033**
Gostev, V. B. (*with* Frenkin, A. R.) Rayleigh-Schrödinger coefficients for singular perturbations of the discrete spectrum. (Russian) **89h:81033**
Graffi, S. (*with* Paul, T.; Silverstone, H. J.) Resonance overlapping in classical mechanics and avoided crossings in quantum mechanics. **89h:81034**
— *see also* **Caliceti, E.; et al., 89b:81047**

Grosse, H. On the level order for Dirac operators. **89e:81026**

Hagedorn, George A. High order corrections to the time-independent Born-Oppenheimer approximation. II. Diatomic Coulomb systems. **89b:81035**

Handy, Carlos R. Nonnegativity and moment quantization for $|\Psi|^2$. **89b:81048**

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Louw, J. *see* **Steeb, W.-H.; et al., 89j:81039**

Nardini, Franco On the asymptotic behaviour of the eigenfunctions of the relativistic N-body Schrödinger operator. (Italian summary) **89j:81038**

Nguyet Tran Minh *see* **Brault, Pascal; et al., 89d:81029**

Paul, T. *see* **Graffi, S.; et al., 89h:81034**

Pipek, J. *see* **Csépes, Z., 89f:81043**

Silverstone, H. J. *see* **Graffi, S.; et al., 89h:81034**

Steeb, W.-H. (*with* van Tonder, A.) Quantum mechanics and a completely integrable dynamical system. **89b:81049**

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Stubbins, Calvin Methods of extrapolating the t-expansion series. **89h:81036**

van Tonder, A. *see* **Steeb, W.-H., 89b:81049** *and* **89j:81039**

Torres del Castillo, G. F. The time-dependent variational method in quantum mechanics. (Spanish. English summary) **89f:81044**

Vallée, Olivier *see* **Brault, Pascal; et al., 89d:81029**

Varshni, Y. P. *see* **Adhikari, R.; et al., 89h:81032**

Items with secondary classifications in 81C12

Bukhbinder, I. L. (*with* Fradkin, E. S.) On the mean field equations of motion in the theories with unstable vacuum. **89i:81104**

Devinatz, Allen (*with* Moeckel, Richard; Rejto, Peter) On Schrödinger operators with von Neumann-Wigner type potentials. **89d:35127**

Ezra, Gregory S. *see* **Fried, Laurence E., 89j:81003**

Fradkin, E. S. *see* **Bukhbinder, I. L., 89i:81104**

Frenkin, A. R. *see* **Gostev, V. B.; et al., 89h:34025**

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Hagedorn, George A. High order corrections to the time-dependent Born-Oppenheimer approximation. II. Coulomb systems. **89h:81272**

Hartmann, S. R. *see* **Friedberg, R., 89i:81159**

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Howland, James S. Random perturbation theory and quantum chaos. **89h:47069**

Intissar, Abdelkader Sur une méthode de perturbation. (English summary) [On a perturbation method] **89c:47017**

— Étude spectrale d'une famille d'opérateurs non-symétriques intervenant dans la théorie des champs de reggeons. (English summary) [Study of the spectrum of a family of nonsymmetric operators arising in reggeon field theory] **89k:81032**

Killingbeck, J. The rotating oscillator. **89c:81033**

Klein, Markus On the mathematical theory of predissociation. **89f:81278**

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Moeckel, Richard *see* **Devinatz, Allen; et al., 89d:35127**

Nakagawa, Norio Geometrical phase factors and higher-order adiabatic approximations. **89h:81066**

Pažma, V. *see* **Prešnajder, P., 89k:81042**

Prešnajder, P. (*with* Pažma, V.) Boundary conditions in the framework of the path integral formalism. **89k:81042**

Rejto, Peter *see* **Devinatz, Allen; et al., 89d:35127**

Robert, Didier ★ Autour de l'approximation semi-classique. (French) [On semiclassical approximation] **89g:81016**

— (*with* Tamura, Hideo) Semiclassical estimates for resolvents and asymptotics for total scattering cross-sections. (French summary) **89b:81041**

Rutkowski, Andrzej K. On the variational perturbation approach to the Dirac equation. **89j:81278**

Šeba, P. On the absorption of eigenvalues by continuous spectrum in the one- and three-dimensional Dirac equation. **89k:81028**

Sibert, Edwin L., III VANVLK: an algebraic manipulation program for canonical Van Vleck perturbation theory. (*see* **89f:81008**)

Sigal, Israel M. *see* **Hislop, Peter D., 89m:81044**

Sjöstrand, J. Estimates on the number of resonances for semiclassical Schrödinger operators. **89i:35103**

Tamura, Hideo *see* **Robert, Didier, 89b:81041**

Vrscay, E. R. Nonlinear "self-interaction" Hamiltonians of the form $H^{(0)}+\lambda\langle r^p\rangle r^q$ and their Rayleigh-Schrödinger perturbation expansions. **89f:81037**

81C15 Perturbation theory for differential equations; WKB techniques

Afinogenov, Yu. A. *see* **Pavlenko, Yu. G.; et al., 89k:81034**

Aref'eva, I. Ya. (*with* Dragović, B. G.; Volovich, I. V.) On the p-adic summability of the anharmonic oscillator. **89h:81037**

Belov, V. V. (*with* Karavaev, A. G.) Higher approximations for the quasiclassical trajectory-coherent states of a nonrelativistic particle. (Russian) **89e:81027**

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— (*with* Papanicolaou, N.) WKB calculation of quantum adiabatic phases and nonadiabatic corrections. (French summary) **89f:81045**

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Combes, J. M. *see* **Briet, Ph.; et al., 89e:81028a; 89e:81028b** *and* **89e:81028c**

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— Erratum: "The quantum stability problem for time-periodic perturbations of the harmonic oscillator". **89d:81031b**

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Dolinszky, T. A new WKB approach without connecting problem. **89j:81040**

Dragović, B. G. *see* **Aref'eva, I. Ya.; et al., 89h:81037**

Duclos, P. *see* **Briet, Ph.; et al., 89e:81028a; 89e:81028b** *and* **89e:81028c**

Dutta-Roy, Binayak *see* **Ghosh, Gautam, 89a:81025**

Fröman, Nanny (*with* Fröman, Per Olof; Lundborg, Bengt) The Stokes constants for a cluster of transition points. **89m:81047**

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Fröman, Per Olof *see* **Fröman, Nanny; et al., 89m:81047** *and* **89m:81048**

Gesztesy, F. (*with* Gurarie, D.; Holden, Helge; Klaus, M.; Sadun, L.; Simon, Barry; Vogl, P.) Trapping and cascading of eigenvalues in the large coupling limit. **89m:81049**

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Giler, S. Generalised WKBJ formulae. **89e:81029**

Gurarie, D. *see* **Gesztesy, F.; et al., 89m:81049**

Hamidian, H. *see* **Vrscay, E. R., 89f:81049**

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Karavaev, A. G. *see* **Belov, V. V., 89e:81027**

Killingbeck, J. Moment approach for mixed parity potentials. **89f:81047**

— An adaptable summation algorithm. **89h:81039**

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Klaus, M. *see* **Gesztesy, F.; et al., 89m:81049**

Lundborg, Bengt *see* **Fröman, Nanny; et al., 89m:81047** *and* **89m:81048**

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Mead, Lawrence R. *see* **Bender, C. M.; et al., 89b:81050**

Mukherjee, Debashis *see* **Bhattacharyya, Kamal, 89d:81030**

Müller-Kirsten, H. J. W. *see* **Maharana, L.; et al., 89f:81048**

Mur, V. D. *see* **Vaĭnberg, V. M.; et al., 89g:81017**

O'Raifeartaigh, L. (*with* Wipf, Andreas) WKB properties of the time-dependent Schrödinger system. **89j:81041**

Papanicolaou, N. *see* **Bender, C. M.; et al., 89b:81050** *and* **89f:81045**

Papp, E. Quasiclassical $1/N$ formulas to the resonance energies for the stark effect in the hydrogen atom. **89j:81042**

Pavlenko, Yu. G. (*with* Afinogenov, Yu. A.; Zelenskiĭ, S. I.) Construction of short-wave asymptotics by the method of successive diagonalizations. (Russian) **89k:81034**

Popescu, I. M. *see* **Popescu, V. A.; et al., 89k:81035**

Popescu, V. A. (*with* Popescu, I. M.; Rusescu, M. C.) Application of the successive variational method to the D-dimensional generalized anharmonic oscillator. **89k:81035**

Popov, V. S. *see* **Vaĭnberg, V. M.; et al., 89g:81017**

Propin, R. Kh. *see* **Damburg, R. Ya.; et al., (89d:81002)**

Rusescu, M. C. *see* **Popescu, V. A.; et al., 89k:81035**

Sadun, L. *see* **Gesztesy, F.; et al., 89m:81049**

Sergeev, A. V. *see* **Vaĭnberg, V. M.; et al., 89g:81017**

Shcheblykin, A. V. *see* **Vaĭnberg, V. M.; et al., 89g:81017**

Simon, Barry *see* **Gesztesy, F.; et al., 89m:81049**

Vaĭnberg, V. M. (*with* Mur, V. D.; Popov, V. S.; Sergeev, A. V.; Shcheblykin, A. V.) $1/n$-expansion in quantum mechanics. **89g:81017**

Vogl, P. *see* **Gesztesy, F.; et al., 89m:81049**

Volovich, I. V. *see* **Aref'eva, I. Ya.; et al., 89h:81037**

Vrscay, E. R. (*with* Hamidian, H.) Rayleigh-Schrödinger perturbation theory at large order for radial relativistic Hamiltonians using hypervirial and Hellmann-Feynman theorems. **89f:81049**

Wiedemann, A. *see* **Maharana, L.; et al., 89f:81048**

Wipf, Andreas *see* **O'Raifeartaigh, L., 89j:81041**

Zelenskiĭ, S. I. *see* **Pavlenko, Yu. G.; et al., 89k:81034**

Items with secondary classifications in 81C15

Bijtebier, J. Relativistic bound states: transition matrix elements for the scattering by an external field. (Italian and Russian summaries) **89i:81134**

Dana, I. *see* **Reinhardt, William P., 89f:58093**

Dekker, H. Quantum mechanical barrier problems. I. Coherence and tunnelling in asymmetric potentials. **89g:81011**

— Quantum mechanical barrier problems. II. Dissipative tunnelling at finite temperatures for the unbiased oscillator. **89g:81012**

— Quantum mechanical barrier problems. III. Dissipative tunnelling at finite temperatures for the weakly biased oscillator. **89g:81013**

Dubnov, V. L. *see* **Voropaeva, G. A.; et al.,** (**89b:58206**)

Englisch, H. (*with* Šeba, P.) The stability of the Dirichlet and Neumann boundary conditions. **89f:81040**

Maslov, V. P. *see* **Voropaeva, G. A.; et al.,** (**89b:58206**)

Maslova, N. S. The effect of quantum tunneling on the relaxation of a nonlinear oscillator in a resonance external field. (Russian) **89k:81213**

Molzahn, F. H. A quantum WKB approximation without classical trajectories. **89k:34101**

Nardini, Franco Singular nonpolynomial perturbations of the n-dimensional harmonic oscillator. (Italian summary) **89m:35056**

Nishimoto, Toshihiko Confluent W-K-B approximation. I. **89c:34059**

Pimpale, Ashok *see* **Razavy, M., 89i:81021**

Razavy, M. (*with* Pimpale, Ashok) Quantum tunneling: a general study in multi-dimensional potential barriers with and without dissipative coupling. **89i:81021**

Reinhardt, William P. (*with* Dana, I.) Semiclassical quantization, adiabatic invariants and classical chaos. **89f:58093**

Robert, Didier ★ Autour de l'approximation semi-classique. (French) [On semiclassical approximation] **89g:81016**

Šeba, P. *see* **Englisch, H., 89f:81040**

Voropaeva, G. A. (*with* Dubnov, V. L.; Maslov, V. P.) Asymptotic Lagrangians of a manifold and the complex WKB method. (Russian) (*see* **89b:58206**)

81C20 Probabilistic methods in quantum mechanics, including stochastic electrodynamics

Albeverio, S. Some points of interaction between stochastic analysis and quantum theory. **89h:81041**

Ali, S. Twareque (*with* Brooke, James; Busch, Paul; Gagnon, René; Schroeck, Franklin E., Jr.) Current conservation as a geometric property of space-time. (French summary) **89j:81043**

Bandyopadhyay, Pratul *see* **Ghosh, Pradip, 89e:81034**

Barchielli, Alberto Quantum stochastic differential equations: an application to the electron shelving effect. **89e:81031**

Baublitz, Millard, Jr. Derivation of the Schrödinger equation from a stochastic theory. **89i:81025**

Bernido, Christopher C. On probability functions with topological constraints and path integrals. (*see* **89g:82003**)

Blanchard, Ph. (*with* Combe, Ph.; Sirugue, M.; Sirugue-Collin, M.) Jump processes. An introduction and some applications to quantum physics. **89h:81042**

Bollé, D. (*with* Dupont, Patrick Jean; Roekaerts, D.) On the Nicolai map and Witten index for two-dimensional supersymmetric magnetic field systems. **89d:81032**

— (*with* Dupont, Patrick Jean; Roekaerts, D.) Stochastic representation of nonabelian supersymmetric quantum mechanics. **89j:81044**

Brooke, James *see* **Ali, S. Twareque; et al., 89j:81043**

Buonomano, V. (*with* Prado de Andrade, A. F.) Stochastic processes for indirectly interacting particles and stochastic quantum mechanics. **89h:81043**

Busch, Paul *see* **Ali, S. Twareque; et al., 89j:81043**

Chistyakov, V. P. *see* **Dorogov, V. I., 89f:81050**

Cohendet, O. (*with* Combe, Ph.; Sirugue, M.; Sirugue-Collin, M.) A stochastic treatment of the dynamics of an integer spin. **89k:81036**

Combe, Ph. *see* **Blanchard, Ph.; et al., 89h:81042** *and* **Cohendet, O.; et al., 89k:81036**

Damgaard, Poul H. (*with* Hüffel, Helmuth) Stochastic quantization. **89d:81033**

Del Grosso, G. (*with* Marra, R.) Girsanov and Feynman-Kac formulas in the discrete stochastic mechanics. **89b:81051**

De Liguori, N. Operators and observables in stochastic mechanics. (Italian and Russian summaries) **89j:81045**

Dorogov, V. I. (*with* Chistyakov, V. P.) ★ Вероятностные модели превращения частиц. (Russian) [Probabilistic models of the transformation of particles] **89f:81050**

Dupont, Patrick Jean *see* **Bollé, D.; et al., 89d:81032** *and* **89j:81044**

Durran, Richard (*with* Truman, Aubrey) Planetesimal diffusions. **89j:81046**

de Falco, Diego The stochastic mechanics of fields in a general relativistic context: problems and perspectives. **89c:81042**

— (*with* Pulignano, Eugenio) Sample paths in stochastic mechanics: some numerical exercises. (Portuguese summary) **89a:81026**

Fried, H. M. On unitary SU(N) ordered exponentials in a strong coupling limit. **89a:81027**

Gagnon, René *see* **Ali, S. Twareque; et al., 89j:81043**

Garbaczewski, Piotr (*with* Prorok, Dariusz) Stochastic mechanics and the Kepler problem: scattering states. **89e:81032**

— Stochastic quantisation of the Fermi oscillator: non-Z_2 route. **89e:81033**

Gerlich, Gerhard The role of probability and statistics in physics. **89b:81052**

Ghosh, Pradip (*with* Bandyopadhyay, Pratul) Stochastic field theory at finite temperature, supersymmetry, and Witten index. **89e:81034**

Gliklikh, Yu. E. Geometric aspects of Nelson's stochastic quantization. (Russian) **89i:81026a**

— Geometrical aspects of Nelson's stochastic quantization. **89i:81026b**

Graham, Robert (*with* Roekaerts, D.) A Nicolai map for supersymmetric quantum mechanics on Riemannian manifolds. **89c:81043**

Hüffel, Helmuth *see* **Damgaard, Poul H., 89d:81033**

Kaloyerou, P. N. (*with* Vigier, J.-P.) Derivation of a nonlinear Schrödinger equation describing possible vacuum dissipative effects. **89h:81044**

Klauder, John R. Stochastic quantisation: theme and variation. (*see* **89b:81007**)

— Stochastic quantization and the complex Langevin method. (*see* **89h:81005**)

Kolley, E. (*with* Kolley, W.) Stochastic quantization of thermal fermions on the real-time Keldysh contour. **89j:81047**

Kolley, W. *see* **Kolley, E., 89j:81047**

Kotani, Shinichi (*with* Simon, Barry) Localization in general one-dimensional random systems. II. Continuum Schrödinger operators. **89d:81034**

Landau, Lawrence J. Gaussian quantum fields and stochastic electrodynamics. **89f:81051**

Li, Zhan Bing The law of conservation of energy in relativistic stochastic mechanics. (Chinese. English summary) **89j:81048**

Lindner, U. Parallelism between quantum mechanics and theory of stochastic processes. **89e:81035**

Marra, R. *see* **Del Grosso, G., 89b:81051**

Meyer, P.-A. Quelques remarques au sujet du calcul stochastique sur l'espace de Fock. [Some remarks on the subject of stochastic calculus on the Fock space] **89g:81019**

— *see also* **Zheng, Wei An, 89f:81053**

Misawa, Tetsuya (*with* Yasue, Kunio) Canonical stochastic dynamical systems. **89b:81053**

Mukunda, N. *see* **Simon, Rajiah; et al., 89g:81020**

Namiki, Mikio Stochastic processes in physics. (Japanese. English summary) **89b:81054**

Nelson, Edward The locality problem in stochastic mechanics. (*see* **89m:81005**)

Parthasarathy, Kalyanapuram Rangachari Some additional remarks on Fock space stochastic calculus. **89g:81018**

Prado de Andrade, A. F. *see* **Buonomano, V., 89h:81043**

Prorok, Dariusz *see* **Garbaczewski, Piotr, 89e:81032**

Prugovečki, E. A Poincaré gauge-invariant formulation of general-relativistic quantum geometry. (Italian and Russian summaries) **89b:81055**

Pugnetti, Sergio Renormalization group equations in the stochastic quantization scheme. **89f:81052**

Pulignano, Eugenio *see* **de Falco, Diego, 89a:81026**

Roekaerts, D. *see* **Graham, Robert, 89c:81043; Bollé, D.; et al., 89d:81032** *and* **89j:81044**

Sakamoto, Jiro Stochastic quantization in Minkowski space-time. **89i:81027**

Sakamoto, Toshio Ordinary time stochastic quantization of bosonic string and its supersymmetric effective action. **89c:81044**

Schroeck, Franklin E., Jr. *see* **Ali, S. Twareque; et al., 89j:81043**

Simon, Barry *see* **Kotani, Shinichi, 89d:81034**

Simon, Rajiah (*with* Sudarshan, E. C. G.; Mukunda, N.) Gaussian Wigner distributions: a complete characterization. **89g:81020**

Sinha, K. B. Quantum stochastic integral and martingales. **89i:81028**

Sirugue, M. *see* **Blanchard, Ph.; et al., 89h:81042** *and* **Cohendet, O.; et al., 89k:81036**

Sirugue-Collin, M. *see* **Blanchard, Ph.; et al., 89h:81042** *and* **Cohendet, O.; et al., 89k:81036**

Sudarshan, E. C. G. *see* **Simon, Rajiah; et al., 89g:81020**

Takeda, Masayoshi On the uniqueness of the Markovian selfadjoint extension. **89e:81036**

Tiwari, S. C. Derivation of the Hamiltonian form of the Klein-Gordon equation from Schrödinger-Furth quantum diffusion theory: comments. **89j:81049**

Truman, Aubrey *see* **Durran, Richard, 89j:81046**

Vigier, J.-P. *see* **Kaloyerou, P. N., 89h:81044**

Wang, Min Sheng Stochastic mechanics and Feynman path integrals. **89g:81021**

Yasue, Kunio *see* **Misawa, Tetsuya, 89b:81053**

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Items with secondary classifications in 81C20

Accardi, Luigi (*with* Schürmann, Michael; von Waldenfels, Wilhelm) Quantum independent increment processes on superalgebras. **89h:46092**

— *see also* **Quantum probability and applications, 89i:81004**

Ali, S. Twareque Functional analytic methods in stochastic quantum mechanics. **89i:81029**

Aramaki, Seiya (*with* Kase, Hiromi; Morita, Katsusada) Stochastic quantization and chiral anomalies. **89a:81109a**

— (*with* Kase, Hiromi; Morita, Katsusada) Errata: "Stochastic quantization and chiral anomalies". **89a:81109b**

Bach, Alexander The concept of indistinguishable particles in classical and quantum physics. **89f:81019**

— On the statistics of nonclassical photon states. **89j:81295**

Balakrishnan, Janaki (*with* Biswas, S. N.; Goyal, Ashok; Soni, S. K.) Chiral anomaly for parafermions from stochastic quantization. **89h:81162**

Berman, G. P. (*with* Iomin, A. M.) Quasiclassical approximation for a nonlinear oscillator that is stochastic in the classical limit. **89j:81063**

Bhatt, Subhash J. Sufficiency and strong commutants in quantum probability theory. **89a:46133**

Biswas, S. N. *see* **Balakrishnan, Janaki; et al., 89h:81162**

Blanchard, Ph. (*with* Zheng, Wei An) Stochastic variational principle and diffusion processes. **89d:60139**

— (*with* Golin, Simon) Diffusion processes with singular drift fields. **89a:60179**

Blažek, M. On an inverse problem in quantum statistical physics. **89h:82010**

Bourgain, J. A remark on the uncertainty principle for Hilbertian basis. **89f:81025**

Busch, Paul Some realizable joint measurements of complementary observables. **89b:81023**

Caianiello, Eduardo R. (*with* Guz, W.) Quantum Fisher metric and uncertainty relations. **89a:81014**

Caliceti, E. (*with* Goldoni, L.; Graffi, S.) Probability of convergence of perturbation theory for hydrogen photoionization. **89b:81047**

Chung, Kai Lai (*with* Li, Peter; Williams, Ruth J.) Comparison of probability and classical methods for the Schrödinger equation. **89c:60095**

Cranston, M. (*with* Zhao, Zhong Xin) Conditional transformation of drift formula and potential theory for $\frac{1}{2}\Delta + b(\cdot)\cdot\nabla$. **89g:35030**

Dai, Yuan Ben (*with* Xiong, Chuan Sheng; Zhao, Wei Dong) On stochastic quantization of Witten's field theory of interacting string. **89h:81131**

(**Davies, I. M.**) *see* **Stochastic mechanics and stochastic processes, 89c:60006**

Denisov, L. V. Infinitely divisible Markov mappings in the quantum theory of probability. **89m:46104**

Dinh Nho Hao Approximating an optimal control problem of quantum processes by the finite element method. **89m:49053**

Ennyu, Daiji *see* **Nakazawa, Naohito, 89k:81108**

Faĭnberg, V. Ya. *see* **Maliev, I. N.; et al.,** (**89d:81001**)

Foulis, D. J. *see* **Randall, C. H.,** (**89h:81008**)

Fukuda, Reijiro (*with* Higurashi, H.) Equilibrium limit of the stochastic quantization in Minkowski space. **89j:81181**

Gadella, M. (*with* Nieto, L. M.; Noriega, J. M.; Santos, Emilio) The generalized Weyl correspondence and time-dependent stochastic processes. **89d:81050**
Gaveau, Bernard (*with* Schulman, L. S.) Grassmann-valued processes for the Weyl and the Dirac equations. **89b:81033**
Goldoni, L. *see* **Caliceti, E.; et al., 89b:81047**
Golin, Simon *see* **Blanchard, Ph., 89a:60179**
Goyal, Ashok *see* **Balakrishnan, Janaki; et al., 89h:81162**
Graffi, S. (*with* Paul, T.; Silverstone, H. J.) Resonance overlapping in classical mechanics and avoided crossings in quantum mechanics. **89h:81034**
— *see also* **Caliceti, E.; et al., 89b:81047**
Greiner, W. *see* **Pop, A.; et al., 89c:81186**
Guz, W. *see* **Caianiello, Eduardo R., 89a:81014**
Haba, Z. Linearizable quantum supersymmetric σ models. **89i:81068**
Helmes, K. On Levy's area process. **89b:60109**
Hida, Takeyuki (*with* Saito, Kimiaki) White noise analysis and the Levy Laplacian. **89m:60092**
Higurashi, H. *see* **Fukuda, Reijiro, 89j:81181**
Hsu, Jong Ping (*with* Pei, Shou Yong) Klauder's continuous representations and fuzzy coordinate variables. **89f:81289**
Iomin, A. M. *see* **Berman, G. P., 89j:81063**
Ito, H. M. Multiplication formulas of orthogonal polynomials of boson field operators: derivation based on the generalized phase-space method. **89e:60124**
Ivanovíc, I. D. Two models violating Bell's inequality. **89j:81014**
Jefferies, Brian Perturbations of Schrödinger semigroups generated by stochastic integrals. **89g:35031**
Jun, Jin Woo (*with* Kim, Jae Kwan) Evaluation of the conformal anomaly of Polyakov's string theory by the stochastic quantization method. **89f:81185**
Kase, Hiromi *see* **Aramaki, Seiya; et al., 89a:81109a** *and* **89a:81109b**
Kholevo, A. S. Conditionally positive definite functions in quantum probability. **89d:46061**
Kim, Jae Kwan *see* **Jun, Jin Woo, 89f:81185**
Krée, Paul La théorie des distributions en dimension quelconque et l'intégration stochastique. [The theory of distributions in any dimension, and stochastic integration] **89i:60114**
Kruglov, V. I. Measurements in quantum mechanics. (Russian. English summary) **89f:81013**
Kyprianidis, A. Scalar time parametrization of relativistic quantum mechanics: the covariant Schrödinger formalism. **89b:81273**
Lavelle, M. J. *see* **Tuite, M. P., 89c:81096**
Li, Peter *see* **Chung, Kai Lai; et al., 89c:60095**
Maassen, Hans Theoretical concepts in quantum probability: quantum Markov processes. **89m:46105**
Maier, Robert The density of states of random Schrödinger operators. **89g:60203**
Maliev, I. N. (*with* Spiridonov, V. P.; Faĭnberg, V. Ya.) Stochastic quantization, supersymmetry and renormalization. (Russian) (*see* **89d:81001**)
Marchesoni, Fabio (*with* Sodano, Pasquale; Zannetti, Marco) Supersymmetry and bistable soft potentials. **89f:82028**
Marić, Z. On Schrödinger's search for a stochastic interpretation of quantum mechanics. (German summary) **89j:81009**
Matsui, Tetsuo (*with* Nakamura, Atsushi) Parisi-Klauder algorithm for complex actions in stochastic quantization. **89c:81009**
Meyer, P.-A. Correction: "Stochastic differential geometry. II" [in *Séminaire de Probabilités, XVI, 1980/81, Supplément*, 165–207, Lecture Notes in Math., 921, Springer, Berlin, 1982; MR 84e:60083]. (French) **89e:60108**
— Fock space and probability theory. **89c:60050**
Minami, Nariyuki Schrödinger operator with potential which is the derivative of a temporally homogeneous Lévy process. **89m:60146**
Montani, H. (*with* Schaposnik, Fidel A.) Chiral models and stochastic quantization. **89b:81138**
— Nonabelian gauge theories with Weyl fermions: the stochastic quantization approach. **89k:81081**
Morita, Katsusada *see* **Aramaki, Seiya; et al., 89a:81109a** *and* **89a:81109b**
Nakamura, Atsushi *see* **Matsui, Tetsuo, 89c:81009**
Nakazawa, Naohito (*with* Ennyu, Daiji) Background field method for nonlinear σ-model in stochastic quantization. **89k:81108**
Nieto, L. M. *see* **Gadella, M.; et al., 89d:81050**
Noriega, J. M. *see* **Gadella, M.; et al., 89d:81050**
Okano, Keisuke (*with* Schülke, Lothar) Renormalization and renormalization group behaviour of the O(N) nonlinear sigma-model in stochastic quantization. **89e:81111**
Parish, Jeffrey L. Correlation function on quantum phase space. **89j:81053**
Parthasarathy, Kalyanapuram Rangachari (*with* Sinha, K. B.) Stop times in Fock space stochastic calculus. **89h:81072**
— A unified approach to classical, bosonic and fermionic Brownian motions. **89m:60129**
Paul, T. *see* **Graffi, S.; et al., 89h:81034**
Pei, Shou Yong *see* **Hsu, Jong Ping, 89f:81289**
Pop, A. (*with* Săndulescu, A.; Scutaru, H.; Greiner, W.) Charge equilibration mode as an open quantum system. **89c:81186**
Prugovečki, E. Geometro-stochastic quantization of massive fields in curved space-time. (Italian and Russian summaries) **89i:81096**
Randall, C. H. (*with* Foulis, D. J.) Stochastic entities. (*see* **89h:81008**)
Reuter, M. Parity-violating anomalies and the stationarity of stochastic averages. **89c:81160**
— Chiral anomaly of antisymmetric tensor fields. **89f:81208**
Saito, Kimiaki *see* **Hida, Takeyuki, 89m:60092**
Săndulescu, A. *see* **Pop, A.; et al., 89c:81186**
Santos, Emilio *see* **Gadella, M.; et al., 89d:81050**
Schaposnik, Fidel A. *see* **Montani, H., 89b:81138**
Schroeder, Carolyn Green's functions for the Schrödinger operator with periodic potential. **89g:35033**
Schülke, Lothar *see* **Okano, Keisuke, 89e:81111**
Schulman, L. S. *see* **Gaveau, Bernard, 89b:81033**
Schürmann, Michael *see* **Accardi, Luigi; et al., 89h:46092**
Scutaru, H. *see* **Pop, A.; et al., 89c:81186**
Silverstone, H. J. *see* **Graffi, S.; et al., 89h:81034**
Sinha, K. B. *see* **Parthasarathy, Kalyanapuram Rangachari, 89h:81072**
de Smedt, Ph. The quantum Langevin equation and its stationary state. (*see* **89e:60005**)
Sodano, Pasquale *see* **Marchesoni, Fabio; et al., 89f:82028**
Soni, S. K. *see* **Balakrishnan, Janaki; et al., 89h:81162**
Spiridonov, V. P. *see* **Maliev, I. N.; et al., (89d:81001)**
Streater, R. F. Entropy and the central limit theorem in quantum mechanics. **89e:81060**
— Linear and nonlinear stochastic processes. (*see* **89i:81004**)
Stulpe, Werner Conditional expectations, conditional distributions, and a posteriori ensembles in generalized probability theory. **89f:81024**
(Truman, Aubrey) *see* **Stochastic mechanics and stochastic processes, 89c:60006**
Tuite, M. P. (*with* Lavelle, M. J.) Stochastic quantisation and gauge fixing for nonabelian lattice gauge theories. **89c:81096**
Urbanik, K. Remarks on joint distributions of observables. **89c:81039**
Vilela Mendes, Rui Euclidean gauge fields in four dimensions from stochastic differential equations. **89e:81131**
— Nonequivalent stochastic models in lattice gauge theory. **89g:81063**
von Waldenfels, Wilhelm *see* **Accardi, Luigi; et al., 89h:46092** *and* **Quantum probability and applications, 89i:81004**
Williams, Ruth J. *see* **Chung, Kai Lai; et al., 89c:60095**
Włodarz, Joachim J. A note on the Wigner distribution function. **89m:81054**
Wootters, William K. Quantum mechanics without probability amplitudes. **89c:81021**
Xiong, Chuan Sheng *see* **Dai, Yuan Ben; et al., 89h:81131**
Zannetti, Marco *see* **Marchesoni, Fabio; et al., 89f:82028**
Zhao, Wei Dong *see* **Dai, Yuan Ben; et al., 89h:81131**
Zhao, Zhong Xin *see* **Cranston, M., 89g:35030**
Zheng, Wei An *see* **Blanchard, Ph., 89d:60139**
Zinn-Justin, J. (*with* Zwanziger, Daniel) Ward identities for the stochastic quantization of gauge fields. **89j:81119**
Zwanziger, Daniel *see* **Zinn-Justin, J., 89j:81119**

Items listed otherwise than by author

Conference:
  Quantum Probability and Applications ★ Quantum probability and applications. III. **89i:81004**
  Stochastic Mechanics and Stochastic Processes ★ Stochastic mechanics and stochastic processes. **89c:60006**
Lecture Notes in Mathematics ★ Stochastic mechanics and stochastic processes. **89c:60006**
— ★ Quantum probability and applications. III. **89i:81004**
Oberwolfach ★ Quantum probability and applications. III. **89i:81004**
Quantum probability and applications ★ Quantum probability and applications. III. **89i:81004**
Stochastic mechanics and stochastic processes ★ Stochastic mechanics and stochastic processes. **89c:60006**
Swansea ★ Stochastic mechanics and stochastic processes. **89c:60006**

81C25 Canonical transformations, symplectic phase-space considerations

Ali, S. Twareque Functional analytic methods in stochastic quantum mechanics. **89i:81029**
Allen, Theodore J. The Dirac propagator from pseudoclassical mechanics. **89i:81030**
Bakas, I. (*with* Kakas, A. C.) Quantum mechanics of nonlinear systems. **89a:81028**
Cataldo, H. M. *see* **Hernández, E. S., 89m:81050**
Dahl, Jens Peder (*with* Springborg, Michael) The Morse oscillator in position space, momentum space, and phase space. **89e:81037**
Dirl, R. (*with* Kasperkovitz, P.; Moshinsky, M.) Wigner distribution functions and the representation of a nonbijective canonical transformation in quantum mechanics. **89k:81037**
Dodonov, V. V. (*with* Man′ko, V. I.; Osipov, D. L.) Gauge invariant generalization of the Wigner function of quantum system in a nonuniform magnetic field. **89b:81056**
— (*with* Man′ko, V. I.; Osipov, D. L.) Gradient-invariant generalizations of the Wigner function of a quantum system in an inhomogeneous magnetic field. (Russian) (*see* **89d:81002**)
— (*with* Man′ko, V. I.; Osipov, D. L.) The gauge invariant Wigner function: techniques and applications. (Russian) **89j:81050**
Emch, Gérard G. A derivation of the Wigner-Moyal correspondence and its extension beyond flat spaces. (*see* **89e:81004**)
de Faria, Edison *see* **Várilly, Joseph C.; et al., 89b:81057**
Galetti, D. (*with* de Toledo Piza, A. F. R.) An extended Weyl-Wigner transformation for special finite spaces. **89h:81045**
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— *see also* **Várilly, Joseph C.; et al., 89b:81057**
Hannay, J. H. *see* **Ozorio de Almeida, A. M., 89m:81051**
Harriman, John E. Some properties of the Husimi function. **89g:81022**
Hernández, E. S. (*with* Cataldo, H. M.) Semiclassical description of harmonic quantal Brownian motion. **89m:81050**
Jagannathan, Raj (*with* Simon, Rajiah; Sudarshan, E. C. G.; Vasudevan, R.) Dynamical maps and nonnegative phase-space distribution functions in quantum mechanics. **89f:81054**
John, Sarah (*with* Remler, E. A.) Solution of the quantum Liouville equation as a stochastic process. **89h:81046**
Kakas, A. C. *see* **Bakas, I., 89a:81028**
Kandrup, Henry E. Generalized Wigner functions in curved spaces: a new approach. **89f:81055**
Kasperkovitz, P. *see* **Dirl, R.; et al., 89k:81037**

Kim, Y. S. (*with* Wigner, E. P.) Covariant phase-space representation for harmonic oscillators. **89h:81047**
Klauder, John R. Quantization is geometry, after all. **89j:81051**
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Leacock, Robert A. The physical properties of linear and action-angle coordinates in classical and quantum mechanics. **89a:81029**
Man'ko, V. I. *see* **Dodonov, V. V.; et al., 89b:81056; 89j:81050** *and* **(89d:81002)**
Moshinsky, M. *see* **Dirl, R.; et al., 89k:81037**
Mukunda, N. *see* **Simon, Rajiah; et al., 89e:81039**
Narcowich, Francis J. The problem of moments in the phase-space formulation of quantum mechanics. **89h:81048**
Nassar, Antônio B. Invariant, noninvariant operators and quantum fluctuations in tunneling. **89d:81035**
Nieto, L. M. (*with* Noriega, J. M.) Phase-space propagators for quantum quadratic Hamiltonians in one and two dimensions. **89i:81031**
Noriega, J. M. *see* **Nieto, L. M., 89i:81031**
Osipov, D. L. *see* **Dodonov, V. V.; et al., 89j:81050; (89d:81002)** *and* **89b:81056**
Ozorio de Almeida, A. M. (*with* Hannay, J. H.) Resonant periodic orbits and the semiclassical energy spectrum. **89m:81051**
Parish, Jeffrey L. Correlation function on quantum phase space. **89j:81053**
Petrosky, Tomio Y. *see* **Prigogine, Ilya, 89m:81052**
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Remler, E. A. *see* **John, Sarah, 89h:81046**
Saini, Subhash (*with* Zakrzewski, Jakub; Taylor, Howard S.) Semiclassical quantization via adiabatic switching. II. Choice of tori and initial conditions for multidimensional systems. **89k:81039**
— *see also* **Zakrzewski, Jakub; et al., 89k:81038**
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Simon, Rajiah (*with* Sudarshan, E. C. G.; Mukunda, N.) Gaussian pure states in quantum mechanics and the symplectic group. **89e:81039**
— *see also* **Jagannathan, Raj; et al., 89f:81054**
Smith, T. B. A comment on the smoothed Wigner function. **89e:81040**
Springborg, Michael *see* **Dahl, Jens Peder, 89e:81037**
Sudarshan, E. C. G. *see* **Simon, Rajiah; et al., 89e:81039** *and* **Jagannathan, Raj; et al., 89f:81054**
Taylor, Howard S. *see* **Zakrzewski, Jakub; et al., 89k:81038** *and* **Saini, Subhash; et al., 89k:81039**
de Toledo Piza, A. F. R. *see* **Galetti, D., 89h:81045**
Várilly, Joseph C. (*with* de Faria, Edison; Gracia-Bondía, José M.) Some useful formulas for twisted products. (Spanish. English summary) **89b:81057**
— *see also* **Gracia-Bondía, José M., 89e:81038**
Vasudevan, R. *see* **Jagannathan, Raj; et al., 89f:81054**
Wigner, E. P. *see* **Kim, Y. S., 89h:81047**
Wlodarz, Joachim J. A note on the Wigner distribution function. **89m:81054**
Wootters, William K. The discrete Wigner function. (*see* **89m:81005**)
Zakrzewski, Jakub (*with* Saini, Subhash; Taylor, Howard S.) Semiclassical quantization via adiabatic switching. I. Choice of tori and initial conditions for two-dimensional systems. **89k:81038**
— *see also* **Saini, Subhash; et al., 89k:81039**

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Bishop, R. F. (*with* Vourdas, A.) Coherent mixed states and a generalised P representation. **89b:81096**
Bullough, R. K. *see* **Timonen, J.; et al., 89k:82017**
Chen, Yu-zhong *see* **Timonen, J.; et al., 89k:82017**
Delyon, François (*with* Foulon, Patrick) Adiabatic theory, Liapunov exponents, and rotation number for quadratic Hamiltonians. **89f:58054**
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Falcón, C. A. *see* **Reinhold, C. O., 89f:81238**
Foulon, Patrick *see* **Delyon, François, 89f:58054**
Gan, Dan Yan Semiclassical approximation in quantum mechanics and Maslov characteristic classes. (Chinese. English summary) **89a:58104**
Garbaczewski, Piotr (*with* Prorok, Dariusz) Stochastic mechanics and the Kepler problem: scattering states. **89e:81032**
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Kim, Y. S. *see* **Han, Daesoo; et al., 89b:81264**
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Ktorides, C. N. (*with* Papaloucas, L. C.) A special construction of Berezin's L-kernel. **89f:81077**
Kudryashov, V. V. Spectral projectors of angular momentum in the representation of a phase space. (Russian. English summary) **89h:81089**
Kuznetsov, V. B. *see* **Komarov, I. V., 89f:81076**
Landau, Lawrence J. Gaussian quantum fields and stochastic electrodynamics. **89f:81051**
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Loll, R. The extended phase space of the BRS approach. **89k:58095**
Mal'tsev, V. M. *see* **Li, Am Gil, 89h:81206** *and* **89h:81207**
Meyer, P.-A. (*with* Zheng, Wei An) Construction de processus de Nelson réversibles. [Construction of reversible Nelson processes] **89b:60187**
Nagase, Michihiro (*with* Umeda, Tomio) On the essential selfadjointness of quantum Hamiltonians of relativistic particles in magnetic fields. **89d:81120**
Noz, Marilyn E. *see* **Han, Daesoo; et al., 89b:81264**
O'Connell, R. F. *see* **Wang, Lipo,** (Not in MR)
Papaloucas, L. C. *see* **Ktorides, C. N., 89f:81077**
Petrosky, Tomio Y. (*with* Prigogine, Ilya) Poincaré's theorem and unitary transformations for classical and quantum systems. **89k:58130**
Pilling, D. J. *see* **Timonen, J.; et al., 89k:82017**
Prigogine, Ilya *see* **Petrosky, Tomio Y., 89k:58130**
Prorok, Dariusz *see* **Garbaczewski, Piotr, 89e:81032**
Rabitz, Herschel *see* **Shi, Shenghua, 89k:81201**
Reinhold, C. O. (*with* Falcón, C. A.) On the quantum foundations of some classical approximations for ion-atom collisions. **89f:81238**
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Shafarevich, A. I. *see* **Dobrokhotov, S. Yu., 89m:35170**
Shalitin, D. *see* **Tikochinsky, Yoel, 89i:82021**
Shi, Shenghua (*with* Rabitz, Herschel) Algebraic time-dependent variational approach to dynamical calculations. **89k:81201**
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Umeda, Tomio *see* **Nagase, Michihiro, 89d:81120**
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— Pseudodifferential analysis, quantum mechanics and relativity. **89h:58188**
Várilly, Joseph C. *see* **Gracia-Bondía, José M., 89j:81072**
Vourdas, A. *see* **Bishop, R. F., 89b:81096**
Walls, D. F. *see* **Schleich, W.; et al., 89j:81300**
Walther, Herbert *see* **Schleich, W.; et al., 89m:81023**
Wang, Lipo (*with* O'Connell, R. F.) Quantum mechanics without wave functions. (Not in MR)
Watanabe, Masakatsu *see* **Jaffé, Charles, 89k:70033**
Wheeler, John A. *see* **Schleich, W.; et al., 89j:81300** *and* **89m:81023**
Zheng, Wei An *see* **Meyer, P.-A., 89b:60187**

81C30 Feynman integrals and graphs; applications of algebraic topology and algebraic geometry to these problems [see also 14D05, 32B30]

Bassetto, A. (*with* Soldati, R.) Limit properties of Feynman integrals in noncovariant algebraic gauges. **89d:81036**
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Soldati, R. *see* **Bassetto, A., 89d:81036**

Items with secondary classifications in 81C30

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Gaigg, P. (*with* Kreuzer, Maximilian) Symmetries of axial gauge pole prescriptions. **89c:81121**
Hurd, T. R. A power counting formula for short distance singularities in quantum field theory. **89h:81134**
Kreuzer, Maximilian *see* **Gaigg, P., 89c:81121**
Metzner, Walter (*with* Vollhardt, Dieter) Analytic calculation of ground-state properties of correlated fermions with the Gutzwiller wave function. **89i:81152**
Milton, Kimball A. *see* **Bender, C. M.; et al., 89e:81101**
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Rivers, R. J. ★ Path integral methods in quantum field theory. **89j:81059a**
— ★ Path integral methods in quantum field theory. **89j:81059b**
Simmons, L. M., Jr. *see* **Bender, C. M.; et al., 89e:81101**
Vollhardt, Dieter *see* **Metzner, Walter, 89i:81152**

81C35 Path integrals [see also 28C20, 58D30]

Amir-Azizi, Siamak (*with* Hey, Anthony J. G.; Morris, T. R.) Quantum fractals. **89c:81045**
Bartels, J. (*with* Falck, N. K.) Path integral on a group manifold and the lattice gauge theory Hamiltonian. **89j:81055**

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Bhagwat, K. V. *see* **Khandekar, D. C.; et al., 89a:81031** *and* **Lawande, S. V., 89j:81058**

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Falck, N. K. *see* **Bartels, J., 89j:81055**

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Gangopadhyay, Debashis (*with* Home, D.) Exploring the meaning of an individual Feynman path. **89a:81030**

Garczyński, Włodzimierz Measure in the functional integral over the configuration space. **89k:81040**

Gozzi, E. Hidden BRS invariance in classical mechanics. **89k:81041**

Grosche, C. (*with* Steiner, F.) The path integral on the Poincaré upper half plane and for Liouville quantum mechanics. **89g:81023**

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— The product form for path integrals on curved manifolds. **89e:81041**

Grosjean, Carl C. A general formula for the calculation of Gaussian path-integrals in two and three Euclidean dimensions. **89h:81050**

Guechi, L. *see* **Chetouani, L.; et al., 89d:81037**

Hammann, T. F. *see* **Chetouani, L.; et al., 89d:81037**

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Hey, Anthony J. G. *see* **Amir-Azizi, Siamak; et al., 89c:81045**

Home, D. *see* **Gangopadhyay, Debashis, 89a:81030**

Howe, P. S. *see* **Henty, J. C.; et al., 89h:81051**

Ichinose, Takashi Path integral for a Weyl quantized relativistic Hamiltonian and the nonrelativistic limit problem. **89b:81061**

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— (*with* Tamura, Hiroshi) A remark on path integral for the Dirac equation. **89h:81052**

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Junker, G. *see* **Barut, A. O.; et al., 89b:81060**

Kashiwa, Tarō *see* **Fukutaka, Hiroki, 89h:81049** *and* **89i:81033**

Khandekar, D. C. (*with* Bhagwat, K. V.; Wiegel, F. W.) On a path integral with a topological constraint. **89a:81031**

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Lapidus, Michel L. The Feynman-Kac formula with a Lebesgue-Stieltjes measure and Feynman's operational calculus. **89j:81057**

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(Lundqvist, Stig) *see* **Path summation: achievements and goals, 89i:81034**

Morris, T. R. *see* **Amir-Azizi, Siamak; et al., 89c:81045**

Nielsen, Holger Bech (*with* Rohrlich, Daniel) A path integral to quantize spin. **89h:81054**

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(Ranfagni, Anedio) *see* **Path summation: achievements and goals, 89i:81034**

Rivers, R. J. ★ Path integral methods in quantum field theory. **89j:81059a**

— ★ Path integral methods in quantum field theory. **89j:81059b**

Rohrlich, Daniel *see* **Nielsen, Holger Bech, 89h:81054**

(Sa-yakanit, Virulh) *see* **Path summation: achievements and goals, 89i:81034**

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Storchak, S. N. Reparametrization of paths in the path integral on a finite-dimensional manifold. **89m:81058**

Tamura, Hiroshi *see* **Ichinose, Takashi, 89e:81042; 89e:81043** *and* **89h:81052**

Teitelboim, Claudio *see* **Henneaux, M.; et al., 89g:81024**

Torres, Manuel *see* **D'Olivo, J. C., 89i:81032** *and* **89m:81055**

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Townsend, P. K. *see* **Henty, J. C.; et al., 89h:81051**

Wiegel, F. W. *see* **Khandekar, D. C.; et al., 89a:81031**

Zanelli, Jorge *see* **Henneaux, M.; et al., 89g:81024**

Items listed otherwise than by author

Conference:

Path Integral Method with Applications ★ Path summation: achievements and goals. **89i:81034**

Path summation: achievements and goals ★ Path summation: achievements and goals. **89i:81034**

Trieste ★ Path summation: achievements and goals. **89i:81034**

Items with secondary classifications in 81C35

Adler, Stephen L. Quaternionic Gaussian multiple integrals. **89f:81150**

Affleck, Ian *see* **Marston, J. Brad, 89a:82029**

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— *see also* **Barchielli, Alberto, 89a:81013**

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Kalyana Rama, S. *see* **Louis, Jan; et al., 89m:81152**

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Kolley, W. *see* **Kolley, E., 89c:81216**

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Ktitarev, D. V. A formula of Feynman for systems of pseudodifferential equations in infinite-dimensional spaces. **89i:35124**

Kubota, Takahiro *see* **Inami, T.; et al., 89a:81133**

Lapidus, Michel L. *see* **Johnson, Gerald W., 89i:28004**

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Mao, Ke Fei The Casimir effect in a massive abelian gauge field. (Chinese. English summary) **89j:81203**

Marra, R. *see* **Del Grosso, G., 89b:81051**

Marshakov, A. V. *see* **Faĭnberg, V. Ya., 89j:81249**

Marston, J. Brad (*with* Affleck, Ian) Symplectic Landau-Ginzburg fixed points and the localization problem. **89a:82029**

Mathur, Samir D. (*with* Mukhi, Sunil) The $N = 2$ fermionic string: path integral, spin structures and supermoduli on the torus. **89f:81196**

Menskiĭ, M. B. Evolution of a quantum system subject to continuous measurement. **89i:81011**

Milburn, G. J. *see* **Caves, Carlton M., 89d:81015**

Mukhi, Sunil *see* **Mathur, Samir D., 89f:81196**

Muldowney, P. ★ A general theory of integration in function spaces, including Wiener and Feynman integration. **89i:28006**

Ni, Guang Jiong *see* **Wang, Rong Tai, 89f:81220** *and* **89m:81167**

Odzijewicz, A. On reproducing kernels and quantization of states. **89k:58110**

Ovrut, Burt A. *see* **Louis, Jan; et al., 89m:81152**

Parisi, Giorgio On p-adic functional integrals. **89e:81120**

Pažma, V. *see* **Prešnajder, P., 89f:81036**

Pei, Shou Yong *see* **Hsu, Jong Ping, 89f:81289**

Popov, V. N. ★ Functional integrals and collective excitations. **89e:81002**

— A functional approach to the theory of crystals. (Russian. English summary) (*see* **89k:82001**)

Prešnajder, P. (*with* Pažma, V.) The short-time propagator and the boundary conditions in the quantum mechanics. **89f:81036**

Reuter, M. Chiral anomaly of antisymmetric tensor fields. **89f:81208**

Roca, J. *see* **Gomis, J., 89j:81186**

Rogers, Alice Fermionic path integration and Grassmann Brownian motion. **89g:28018**

Schulman, L. S. *see* **Gaveau, Bernard, 89b:81033**

Skoug, David *see* **Johnson, Gerald W., 89b:58042**

Steiner, F. *see* **Grosche, C., 89h:58034**

Streszewski, M. (*with* Jędrzejek, C.) Evaluation of matrix elements for nonorthogonal states with use of path integrals. **89b:81254**

Taylor, Thomas J. Applications of harmonic analysis on the infinite-dimensional torus to the theory of the Feynman integral. **89g:58036**

Tognetti, V. *see* **Giachetti, R.; et al., (89i:81034)**

Torre, C. G. *see* **Birmingham, Danny, 89c:81104**

Tsutsui, Izumi *see* **Harada, Koji, 89e:81089**

Vaia, R. *see* **Giachetti, R.; et al., (89i:81034)**

de Vega, H. J. *see* **Destri, C., 89j:81169**

Wang, Min Sheng Stochastic mechanics and Feynman path integrals. **89g:81021**

Wang, Rong Tai (*with* Ni, Guang Jiong) A new formulation of the path integral method for the chiral anomaly. **89f:81220**

— (*with* Ni, Guang Jiong) The chiral anomaly—from path integral method to differential geometric approach. **89m:81167**

Wintgen, Dieter Semiclassical path-integral quantization of nonintegrable Hamiltonian systems. **89h:81004**

Zagrebnov, V. A. The Trotter-Lie product formula for Gibbs semigroups. **89k:47063**

81C40 General group representations motivated by physics but not covered by Section 81Gxx below; representations of concrete classical groups such as SL(n, C), U(p, q), etc. [see also 20C35, 22E70]

Aneva, B. L. (*with* Stoyanov, D. T.) Nonrelativistic supersymmetry. (*see* **89g:81001**)

Angelova, M. N. (*with* Aroyo, M. I.; Kotzev, J. N.) On the Wigner-Eckart theorem and coupled tensor operators for corepresentations of Shubnikov groups. (*see* **89d:81001**)

Aroyo, M. I. *see* **Angelova, M. N.; et al., (89d:81001)**

Beckers, J. (*with* Hussin, V.) Superalgebras of symmetries in superquantum mechanics. (*see* **89g:81001**)

— (*with* Dehin, D.; Hussin, V.) Dynamical and kinematical supersymmetries of the quantum harmonic oscillator and the motion in a constant magnetic field. **89k:81043**

Bel, L. (*with* Ruiz, E.) Relativistic Schrödinger equations. **89f:81058**

Biedenharn, L. C. *see* **Louck, J. D.; et al., 89f:81059**

Bohm, Arno (*with* Ne'eman, Yuval) Twenty years of dynamical groups and spectrum generating algebras. (*see* **89d:81002**)

— (*with* Kmiecik, M.; Boya, L. J.) Representation theory of superconformal quantum mechanics. **89d:81038**

Boya, L. J. Supersymmetric quantum mechanics and critical potentials. (*see* **89g:81001**)

— *see also* **Bohm, Arno; et al., 89d:81038**

Bracken, A. J. *see* **McAnally, D. S., 89c:81049** *and* **Fawcett, R. J. B., 89k:81044**

Burgin, M. S. (*with* Kuznetsov, V. I.) Types of symmetries in physical theory. (Russian) (*see* **89d:81002**)

Butler, Philip H. *see* **Searle, Barry G., 89i:81037; 89k:81046** *and* **89m:81061**

Caianiello, Eduardo R. "Spineurs simples", "Urfelder" and factorizations of Dirac equations and spinors. **89b:81062**

Dattoli, G. (*with* Richetta, M.; Torre, Amalia) Operator disentanglement. **89f:81061b**

Dehin, D. *see* **Beckers, J.; et al., 89k:81043**

Fan, Hong Yi (*with* Ren, Yong) New applications of the coherent state in calculating the class operator of rotation group. **89h:81055**

Fawcett, R. J. B. (*with* Bracken, A. J.) Simple orthogonal and unitary compact quantum systems and the İnönü-Wigner contraction. **89k:81044**

Gruber, Bruno Remarks on para-Bose algebra and its indecomposable representations. **89m:81059**

Hecht, K. T. *see* **Le Blanc, Richard, 89g:81025a**

Hosokawa, Mizuhiko (*with* Takeda, Gyo) Supersymmetries in extreme nonrelativistic systems. **89j:81061**

Hughston, L. P. Applications of SO(8) spinors. **89i:81035**

Hussin, V. *see* **Beckers, J.; et al., 89k:81043** *and* **(89g:81001)**

Judd, B. R. (*with* Lister, G. M. S.) A class of generalised 9-j symbols for Sp($2n$). **89a:81032**

Karasev, V. P. Invariant algebraic methods and symmetric analysis of cooperative phenomena. **89i:81036**

— Invariant-algebraic methods for and symmetry analysis of cooperative phenomena. (Russian) (*see* **89d:81002**)

— The theory of angular momenta and higher SU(n)-symmetries. **89a:81033**

Kent, R. D. (*with* Schlesinger, Mordechay) Two-body-operator matrix elements in SU(n) for application to complex spectroscopy. **89b:81063**

— (*with* Schlesinger, Mordechay; Ponnapalli, Pardu S.) Two-body-operator matrix-element factorization technique in $U(n) \downarrow S_N$ unitary bases: raising-raising operators. **89k:81045**

King, Ronald Curtis *see* **Srinivasa Rao, K.; et al., 89i:81038**

Kmiecik, M. *see* **Bohm, Arno; et al., 89d:81038**

Korsch, H. J. *see* **Wolf, Fritz, 89f:81061a**

Kotzev, J. N. *see* **Angelova, M. N.; et al., (89d:81001)**

Krivoshlykov, S. G. (*with* Sisakyan, I. N.) Spherical Gauss-Hermite and Gauss-Laguerre modes as generalized Fock states of occupation numbers and generalized states of the angular momentum. (Russian) (*see* **89d:81002**)

Kuznetsov, V. I. *see* **Burgin, M. S., (89d:81002)**

Labarthe, J.-J. Quadratic zeros of Racah $6j$ coefficients: a geometrical approach. **89j:81062**

de Lange, O. L. Factorizations of vector operators for the isotropic harmonic oscillator in an angular momentum basis. **89b:81064**

Le Blanc, Richard (*with* Hecht, K. T.) New perspective on the U(n) Wigner-Racah calculus. II. Elementary reduced Wigner coefficients for U(n). **89g:81025a**

— New perspective on the U(n) Wigner-Racah calculus. III. Applications to U(2) and U(3). **89g:81025b**

Lev, F. M. Some group-theoretical aspects of the SO$_0(1, 4)$-invariant theory. **89c:81047**

Li, Xiang Zhu *see* **Zhang, Qian Er, 89e:81047**

Lister, G. M. S. *see* **Judd, B. R., 89a:81032**

Lohe, M. A. *see* **Louck, J. D.; et al., 89f:81059**

Louck, J. D. (*with* Stein, Paul R.) Weight-2 zeros of $3j$ coefficients and the Pell equation. **89b:81065**

— (*with* Biedenharn, L. C.; Lohe, M. A.) On the denominator function for canonical SU(3) tensor operators. II. Explicit polynomial form. **89f:81059**

Lukierski, J. Holomorphic and real Euclidean supersymmetries in three and four dimensions. **89c:81048**

Lulek, B. (*with* Lulek, T.) Wigner-Racah calculus for transitive representations of cyclic groups. **89e:81045**

Lulek, T. *see* **Lulek, B., 89e:81045**

Lyudkovskiĭ, S. V. Compact relations between invariants of the unitary groups U(n) and power sums. **89f:81060**

Man'ko, V. I. Quantum invariants and the algebra that generates the states of a system. (Russian) (*see* **89d:81002**)

McAnally, D. S. (*with* Bracken, A. J.) Time dependence of variables in the quantum-mechanical and classical Coulomb problems, and the dynamical algebra so(4, 2). **89c:81049**

Mikhaĭlov, Valentine Vachtangovich Multiplicities of angular momenta for $N_1 \times N_2 \times N_3$-dimensional oscillator and the reduction SU(N) ⊃ O(3). **89b:81066**

Ne'eman, Yuval *see* **Bohm, Arno, (89d:81002)**

Nomura, Masao The boson operator approach to Schur-functions and its use for description of higher order K-P equations. **89m:81060**

Ohno, Mamoru Rotations of a rigid body and compositions of the Euler angles. (Japanese) (Not in MR)

Piette, B. (*with* Vinet, Luc) Spectrum-generating algebras for the supersymmetric Morse and Pöschl-Teller Hamiltonians. **89e:81046**

Ponnapalli, Pardu S. *see* **Kent, R. D.; et al., 89k:81045**

Quesne, C. Boson realisations of Lie algebras and expansion of shift operators. **89b:81067**

— A solution to the SU(n) external state labelling problem based upon a U($n - 1, n - 1$) group. I. General theory. **89b:81068**

— A solution to the SU(n) external state labelling problem based upon a U($n - 1, n - 1$) group. II. Recursion relations for the SU(2) and SU(3) Wigner coefficients. **89b:81069**

Rajeswari, V. *see* **Srinivasa Rao, K.; et al., 89i:81038**

Ren, Yong *see* **Fan, Hong Yi, 89h:81055**

Richetta, M. *see* **Dattoli, G.; et al., 89f:81061b**

Ruiz, E. *see* **Bel, L., 89f:81058**

Schlesinger, Mordechay *see* **Kent, R. D., 89b:81063** *and* **89k:81045**

Searle, Barry G. (*with* Butler, Philip H.) 6-j for mixed symmetry triads in K_{20}. **89i:81037**

— (*with* Butler, Philip H.) Recursive calculation of transformation factors in terms of primitive factors. **89k:81046**

— (*with* Butler, Philip H.) Calculation of primitive 6-j symbols. **89m:81061**

Sisakyan, I. N. *see* **Krivoshlykov, S. G., (89d:81002)**

Soroka, V. A. *see* **Volkov, D. V.; et al., 89a:81035**

Srinivasa Rao, K. (*with* Rajeswari, V.; King, Ronald Curtis) Solutions of Diophantine equations and degree-one polynomial zeros of Racah coefficients. **89i:81038**

Stein, Paul R. *see* **Louck, J. D., 89b:81065**

Stoyanov, D. T. *see* **Aneva, B. L., (89g:81001)**

Strandberg, M. W. P. One-dimensional band dispersion relations in terms of SU(2) representations. **89i:81039**

Sun, Chang Pu Indecomposable generalisations of the standard angular momentum representations of SO(3). **89a:81034**

Takeda, Gyo *see* **Hosokawa, Mizuhiko, 89j:81061**

Timoshenko, A. Z. Group-theoretic properties of the Bargman-Michel-Telegdi equations. (Russian) **89h:81056**

Tkach, V. I. *see* **Volkov, D. V.; et al., 89a:81035**

Torre, Amalia *see* **Dattoli, G.; et al., 89f:81061b**

Ungar, Abraham A. Thomas rotation and the parametrization of the Lorentz transformation group. (Not in MR)

Vinet, Luc *see* **Piette, B., 89e:81046**

Volkov, D. V. (*with* Soroka, V. A.; Tkach, V. I.) The odd Poisson bracket and the spinor structure of space-time. (Russian. English summary) **89a:81035**

Wang, Wei Xi *see* **Yun, Guo Hong; et al., 89h:81057**

Wolf, Fritz A remark on the algebraic treatment of coupled oscillators. **89b:81070**

— (*with* Korsch, H. J.) Time-evolution operators for (coupled) time-dependent oscillators and Lie algebraic structure theory. **89f:81061a**

Yan, Jun Hu *see* **Yun, Guo Hong; et al., 89h:81057**

Yuan, Miao En An algebraic method of solution for the spin operator exp$\frac{i\gamma}{\hbar}L_{xy}$. (Chinese. English summary) **89d:81039**

Yun, Guo Hong (*with* Yan, Jun Hu; Wang, Wei Xi) Anomalous angular momentum and 2-cocycles. (Chinese. English summary) **89h:81057**

Zhang, Qian Er (*with* Li, Xiang Zhu) Coupling coefficient for the symmetric and unitary groups. **89e:81047**

Items with secondary classifications in 81C40

Ališauskas, Sigitas Dual bases, generating functions and the symmetry of analytic inversion. (Russian) (*see* **89d:81002**)

Altmann, S. L. Improper double groups and the bases for the representations of O(3). **89c:22039**

Angelova, M. N. *see* **Dirl, R.; et al., 89e:20014**

Araki, Huzihiro On pseudo-unitary representations. **89b:22008**

Arcuri, R. (*with* Gomes, J. F.; Olive, D. I.) Conformal subalgebras and symmetric spaces. **89a:17013**

Aroyo, M. I. *see* **Dirl, R.; et al., 89c:20028; 89e:20014** *and* **Kotzev, J. N.; et al., 89m:20014**

Atakishiev, N. M. (*with* Mir-Kasimov, R. M.) $\widetilde{\rm SL}(2,R)$ coefficients of the transformation between the reductions SO(2) and SO(1, 1). (Russian) (*see* **89d:81002**)

Barannik, A. F. *see* **Barannik, L. F.; et al., 89e:22020**

Barannik, L. F. (*with* Barannik, A. F.; Fushchich, V. I.) On the continuous subgroups of the generalised Poincaré group $P(1,n)$. **89e:22020**

— (*with* Fushchich, V. I.) Casimir operators of the generalised Poincaré and Galilei groups. **89e:22031**

— (*with* Fushchich, V. I.) Casimir operators for generalized Poincaré groups and the Galilei group. (Russian) **89g:22027**

— (*with* Fushchich, V. I.) Invariants of subgroups of the generalized Poincaré group $P(1,n)$. (Russian) **89d:17003**

Beckers, J. (*with* Dehin, D.; Hussin, V.) On the Heisenberg and orthosymplectic superalgebras of the harmonic oscillator. **89m:17002**

Blood, F. A. A relativistic quantum mechanical harmonic oscillator without space-time variables. **89i:81013**

(Boas, R. P.) *see* **Nikiforov, A. F., 89h:33001**

Borisov, N. V. (*with* Müller, Werner[1]; Schrader, Robert) Relative index theorems and supersymmetric scattering theory. **89j:58131**

Bronzan, J. B. Parametrization of SU(3). **89h:22012**

Burdík, Č. *see* **Smirnov, Yu. F.; et al., 89m:17020**

Cao, Yu Fang *see* **Pan, Feng, 89h:22046**

Caride, A. O. *see* **Nogueira, S. R. A.; et al., 89g:20031**

Cesare, S. (*with* Del Duca, V.) Tensor algebra for the icosahedral group. **89b:20041**

Chacón, E. (*with* Moshinsky, M.) Matrix representation of the generators of symplectic algebras. II. The general case with explicit results for sp(6, **R**). **89a:22024**

Cummins, C. J. (*with* King, Ronald Curtis) Young diagrams, supercharacters of OSp(M/N) and modification rules. **89a:22039**

Davies, B. L. *see* **Dirl, R.; et al., 89c:20028** *and* **89j:20019**

Dehin, D. *see* **Beckers, J.; et al., 89m:17002**

Del Duca, V. *see* **Cesare, S., 89b:20041**

De Meyer, H. *see* **Vanthournout, J.; et al., 89j:81265**

Denisova, G. V. *see* **Vilenkin, N. Ya.; et al., (89d:81002)**

Ding, Yi Bing On the Schrödinger radial ladder operator. **89d:81020**

Dirl, R. (*with* Kasperkovitz, P.; Kotzev, J. N.; Aroyo, M. I.; Angelova, M. N.) The symmetry of group representations and the reduction of the multiplicity problem. **89e:20014**

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— (*with* Davies, B. L.) Chain adaptation of space group representations and induced space group Clebsch-Gordan matrices. **89j:20019**

— *see also* **Kotzev, J. N.; et al., 89m:20014**

Dodonov, V. V. (*with* Man′ko, V. I.) Invariants and correlated states of nonstationary quantum systems. (Russian) **89i:81044**

Dubničková, Anna Zuzana ★ Непрерывные группы для физиков. (Russian) [Continuous groups for physicists] **89h:22043**

Eguchi, Tohru (*with* Taormina, Anne) On the unitary representations of $N=2$ and $N=4$ superconformal algebras. **89k:17019**

Falter, C. *see* **Ludwig, W., 89h:81001**

Fecko, Marián A representation of SO($p+q$, $p+q$) on SO(p,q). **89h:22027**

Fushchich, V. I. *see* **Barannik, L. F., 89d:17003; 89e:22020; 89e:22031** *and* **89g:22027**

Gaponov, Yu. V. *see* **Vladimirov, D. M., (89d:81002)**

García-Prada, Oscar (*with* del Olmo, Mariano A.; Santander, Mariano) Locally operating realizations of nonconnected transformation Lie groups. **89h:22044**

Gomes, J. F. *see* **Arcuri, R.; et al., 89a:17013**

Gourdin, Michel Classification and interpretation of the supertableaux of the orthosymplectic groups OSP($m|4$). **89a:22021**

Guillemin, V. (*with* Uribe, Alejandro) Reduction, the trace formula, and semiclassical asymptotics. **89f:58135**

Havlíček, M. *see* **Smirnov, Yu. F.; et al., 89m:17020**

Hehl, Friedrich W. *see* **Kopczyński, Wojciech; et al., 89f:81081**

Humi, Mayer Representations and invariant equations of E(3). **89h:17006**

— Factorisation of separable partial differential equations. **89f:35015**

Hussin, V. *see* **Beckers, J.; et al., 89m:17002**

Iwakiri, Takashi (*with* Kamiya, Tsueharu; Maekawa, Takayoshi) Note on SO(1, 3) and the Coulomb scattering. **89m:81188**

Jørgensen, Palle E. T. (*with* Klink, W. H.) Spectral transform for the sub-Laplacian on the Heisenberg group. **89k:58276**

Kamiya, Tsueharu *see* **Iwakiri, Takashi; et al., 89m:81188**

Kamupingene, A. H. (*with* Palev, T. D.) Irreducible finite-dimensional representations of the Lie superalgebra sl(1, 2) in a Gel′fand-Zeitlin basis. (Russian summary) **89a:17030**

Kasperkovitz, P. *see* **Dirl, R.; et al., 89c:20028; 89e:20014** *and* **Kotzev, J. N.; et al., 89m:20014**

King, Ronald Curtis *see* **Cummins, C. J., 89a:22039**

Klink, W. H. *see* **Jørgensen, Palle E. T., 89k:58276**

Knyr, V. A. *see* **Smirnov, Yu. F.; et al., (89d:81002)**

Kondo, Anne E. (*with* Truax, D. Rodney) On a time-dependent extension of the Morse potential. **89f:81033**

Kopczyński, Wojciech (*with* McCrea, J. Dermott; Hehl, Friedrich W.) The Weyl group and its currents. **89f:81081**

Kopvillem, U. Kh. Dynamical Lie algebras and their physical realizations. (Russian) (*see* **89b:81005**)

Kostelecký, V. Alan (*with* Truax, D. Rodney) Baker-Campbell-Hausdorff relations for the super-Poincaré group. **89c:22033**

Kotzev, J. N. (*with* Peev, M. K.; Aroyo, M. I.; Dirl, R.; Kasperkovitz, P.) Generating relations for reducing matrices. IV. Subduced representations. **89m:20014**

— *see also* **Dirl, R.; et al., 89c:20028** *and* **89e:20014**

Krause, Jorge Galilean quantum kinematics. **89b:81082**

Kudryashova, T. G. *see* **Vilenkin, N. Ya.; et al., (89d:81002)**

Lagno, V. I. Continuous subgroups of the generalized Poincaré group $P(2,3)$ and their invariants. (Russian) **89e:22037**

Le Blanc, Richard (*with* Rowe, D. J.) Decomposition of the SO*(8) enveloping algebra under U(4) ⊃ U(3). **89f:17012**

Lev, F. M. Some representations of de Sitter algebras over a finite field and their possible physical interpretation. **89k:17017**

Ludwig, W. (*with* Falter, C.) ★ Symmetries in physics. **89h:81001**

Maekawa, Takayoshi *see* **Iwakiri, Takashi; et al., 89m:81188**

Man′ko, V. I. *see* **Dodonov, V. V., 89i:81044**

Marmo, G. (*with* Morandi, G.; Simoni, A.; Sudarshan, E. C. G.) Quasi-invariance and central extensions. **89g:58072**

McCrea, J. Dermott *see* **Kopczyński, Wojciech; et al., 89f:81081**

Mikhaĭlov, Valentine Vachtangovich Multiplicities of the angular momentum for an $N_1\times N_2\times N_3$-dimensional oscillator, and the reduction SU(N) ⊃ O(3). (Russian) (*see* **89d:81002**)

Mir-Kasimov, R. M. *see* **Atakishiev, N. M., (89d:81002)**

Morandi, G. *see* **Marmo, G.; et al., 89g:58072**

Moshinsky, M. *see* **Chacón, E., 89a:22024**

Mukunda, N. *see* **Simon, Rajiah; et al., 89e:81039**

Müller, Werner[1] *see* **Borisov, N. V.; et al., 89j:58131**

Nikiforov, A. F. (*with* Uvarov, V. B.) ★ Special functions of mathematical physics. **89h:33001**

Nogueira, S. R. A. (*with* Caride, A. O.; Zanette, S. I.) On the labelling and symmetry adaptation of the solvable finite group representations. **89g:20031**

Olive, D. I. *see* **Arcuri, R.; et al., 89a:17013**

del Olmo, Mariano A. *see* **García-Prada, Oscar; et al., 89h:22044**

Palev, T. D. *see* **Kamupingene, A. H., 89a:17030**

Pan, Feng (*with* Cao, Yu Fang) Some isoscalar factors for SO$_N$ ⊃ SO$_{N-1}$ and state expansion coefficients for SO$_N$ ⊃ SO$_{N-1}$ in terms of SU$_N$ ⊃ SU$_{N-1}$ ⊃ SO$_{N-1}$. **89h:22046**

Panagopoulos, H. (*with* Vinet, Luc) Superinvariant chiral and vector fields. **89e:81168**

Peev, M. K. *see* **Kotzev, J. N.; et al., 89m:20014**

Pluhař, Z. *see* **Tolstoĭ, V. N.; et al., 89g:22031** *and* **(89d:81002)**

Quesne, C. Coherent states for the harmonic series irreducible representations of U(p,q). I. Unitary operator coherent states. **89b:81100**

— Casimir operators of semidirect sum Lie algebras. **89m:17015**

Rcheulishvili, G. L. (*with* Savel′ev, M. V.) Construction of the characteristic integrals for the supersymmetric Toda lattices. **89k:58131**

Rosenbaum, M. Graded spinors for OSp($4/N$). **89k:22039**

Rowe, D. J. *see* **Le Blanc, Richard, 89f:17012**

Rozenblyum, A. V. (*with* Rozenblyum, L. V.) Representations of the rotation group, and discrete orthogonal polynomials. (Russian) (*see* **89d:81002**)

Rozenblyum, L. V. *see* **Rozenblyum, A. V., (89d:81002)**

Rudnev, A. A. *see* **Vilenkin, N. Ya.; et al., (89d:81002)**

Sakharuk, A. A. *see* **Smirnov, Yu. F.; et al., 89m:17020**

(Samarskiĭ, A. A.) *see* **Nikiforov, A. F., 89h:33001**

Santander, Mariano *see* **García-Prada, Oscar; et al., 89h:22044**

Savel′ev, M. V. *see* **Rcheulishvili, G. L., 89k:58131**

Schrader, Robert *see* **Borisov, N. V.; et al., 89j:58131**

Semenov-Tyan-Shanskiĭ, M. A. Classical r-matrices, Lax equations, Poisson Lie groups and dressing transformations. **89g:58098**

Shelepin, A. L. (*with* Shelepin, L. A.) Symmetric basis in Lie group representation theory and constructing Clebsch-Gordan coefficients. **89e:22040**

— (*with* Shelepin, L. A.) A symmetric basis in the theory of representations of Lie groups and the construction of Clebsch-Gordan coefficients. (Russian) (*see* **89d:81002**)

Shelepin, L. A. *see* **Shelepin, A. L., 89e:22040** *and* **(89d:81002)**

Simon, Rajiah (*with* Sudarshan, E. C. G.; Mukunda, N.) Gaussian pure states in quantum mechanics and the symplectic group. **89e:81039**

Simoni, A. *see* **Marmo, G.; et al., 89g:58072**

Smirnov, Yu. F. (*with* Tolstoĭ, V. N.; Havlíček, M.; Burdík, Č.; Sakharuk, A. A.) The Dyson-type boson realizations for representations of the semisimple Lie algebras and superalgebras. **89m:17020**

— (*with* Tolstoĭ, V. N.; Knyr, V. A.; Stotland, L. Ya.) Structure of the representations of the algebra u(2, 1) with an extremal vector. (Russian) (*see* **89d:81002**)

— *see also* **Tolstoĭ, V. N.; et al., 89g:22031** *and* **(89d:81002)**

Sternberg, S. On charge conjugation. **89c:22041**

Stotland, L. Ya. *see* **Smirnov, Yu. F.; et al., (89d:81002)**

Šťovíček, Pavel Gell-Mann formula for simple complex Lie groups and geometric quantization. **89k:58111**

Stoyanov, D. T. On ladder representations and affinisation of Lie algebras. **89c:17016**

Sudarshan, E. C. G. *see* **Simon, Rajiah; et al., 89e:81039** *and* **Marmo, G.; et al., 89g:58072**

Sun, Chang Pu Boson realisation of Virasoro and Kac-Moody algebras and their indecomposable representations. **89c:17034**

— Boson-fermion realisation of indecomposable representations for Lie superalgebras. **89f:17027**

Taormina, Anne *see* **Eguchi, Tohru, 89k:17019**

Tolstoĭ, V. N. (*with* Smirnov, Yu. F.; Pluhař, Z.) The elements of the SU(3) Wigner-Racah algebra. **89g:22031**

— (*with* Smirnov, Yu. F.; Pluhař, Z.) Elements of the Wigner-Racah algebra for the group SU(3). (Russian) (*see* **89d:81002**)

— *see also* **Smirnov, Yu. F.; et al., 89m:17020** *and* (**89d:81002**)

Truax, D. Rodney *see* **Kostelecký, V. Alan, 89c:22033** *and* **Kondo, Anne E., 89f:81033**

Uribe, Alejandro *see* **Guillemin, V., 89f:58135**

Uvarov, V. B. *see* **Nikiforov, A. F., 89h:33001**

Val'kov, V. V. Unitary transformations of the group U(N) and diagonalization of multilevel Hamiltonians. **89i:82063**

Vanden Berghe, G. *see* **Vanthournout, J.; et al., 89j:81265**

Van der Jeugt, Joris *see* **Vanthournout, J.; et al., 89j:81265**

Vanthournout, J. (*with* Van der Jeugt, Joris; De Meyer, H.; Vanden Berghe, G.) On the spectrum of a third-order SO(3) scalar in the enveloping algebra of SO(6). **89j:81265**

Vilenkin, N. Ya. (*with* Denisova, G. V.; Kudryashova, T. G.; Rudnev, A. A.) Irreducible representations of the groups SO(n), SO(p,q), SU(n) and S_4 and their matrix elements. (Russian) (*see* **89d:81002**)

Vinet, Luc *see* **Panagopoulos, H., 89e:81168**

Vladimirov, D. M. (*with* Gaponov, Yu. V.) Recurrent contruction of the supermultiplet basis of the group SU(4). (Russian) (*see* **89d:81002**)

Wollenberg, Manfred On smooth asymptotic constants for the Poincaré group. II. **89g:47013b**

— On smooth asymptotic constants for the Poincaré group. I. **89g:47013a**

Zanette, S. I. *see* **Nogueira, S. R. A.; et al., 89g:20031**

Zeng, Gao Jian Deep connection between C-G coefficients of OSp(1, 2) algebra and that of SO(3) algebra. **89b:17022**

— On tensor operators of the Lie superalgebra OSP(1, 2). **89f:17029**

Zhelobenko, D. P. Transvector algebras in representation theory and dynamic symmetry. **89i:22032**

81C99 None of the above, but in this section

Agaeva, R. G. Integrals of motion in supersymmetric quantum mechanics. (Russian) (*see* **89d:81001**)

Agibalov, A. V. (*with* Kuzhir, P. G.) Time evolution of a non-steady-state quantum system on a finite interval of time. (Russian. English summary) **89f:81062**

Alacoque, C. (*with* Ruelle, P.; Thiran, E.; Verstegen, D.; Weyers, J.) Quantum amplitudes on p-adic fields. **89h:81058**

Aliaga, J. (*with* Negri, Martín Ricardo; Otero, D.; Plastino, A.; Proto, A. N.) Temporal evolution in an effective Hilbert subspace. **89k:81047**

Anandan, J. Geometric angles in quantum and classical physics. **89i:81040**

— Nonadiabatic nonabelian geometric phase. **89m:81062**

Aurich, R. (*with* Sieber, M.; Steiner, F.) Quantum chaos of the Hadamard-Gutzwiller model. **89h:81059**

Avron, J. E. (*with* Sadun, L.; Segert, J.; Simon, Barry) Topological invariants in Fermi systems with time-reversal invariance. **89f:81063**

Badalyan, A. M. (*with* Konyukhova, N. B.; Pariĭskiĭ, B. S.) The spectrum of states in Yang-Mills quantum mechanics. **89e:81048**

Balantekin, A. B. *see* **Fricke, S. H.; et al., 89e:81051**

Batalin, I. A. The Fradkin operator method. **89h:81060**

Batlle, C. (*with* Gomis, J.; Roca, J.) The propagator of a free relativistic particle in a generic gauge $d\lambda/d\tau = f(\lambda)$. **89m:81063**

Bekenstein, Jacob D. Communication and energy. **89h:81061**

Berman, G. P. (*with* Iomin, A. M.) Quasiclassical approximation for a nonlinear oscillator that is stochastic in the classical limit. **89j:81063**

Berry, M. V. (*with* Mondragon, R. J.) Neutrino billiards: time-reversal symmetry-breaking without magnetic fields. **89f:81064**

Bessis, Daniel *see* **Handy, Carlos R.; et al., 89i:81046**

Biedenharn, L. C. (*with* van Dam, H.; Marmo, G.; Morandi, G.; Mukunda, N.; Samuel, Joseph; Sudarshan, E. C. G.) Classical models for Regge trajectories. **89b:81071**

Bijtebier, J. On the quantization of the problem of two interacting relativistic spinless particles. (Italian and Russian summaries) **89c:81050**

Bogomol'nyĭ, E. B. Smoothed wave functions of chaotic quantum systems. **89h:81062**

Bouchiat, C. (*with* Gibbons, Gary) Nonintegrable quantum phase in the evolution of a spin-1 system: a physical consequence of the nontrivial topology of the quantum state-space. (French summary) **89i:81041**

Bracken, A. J. (*with* McAnally, D. S.) Heisenberg equations of motion for the Coulomb problem and so(4, 2). (*see* **89g:81001**)

Brickmann, Jürgen *see* **Yurtsever, Ersin, 89j:81071**

Briggs, Keith An exact solution of the relativistic two-body problem with scalar interaction. **89f:81065**

Brivio, G. P. (*with* Casati, G.; Perotti, L.; Guarneri, I.) Quantum suppression of chaotic diffusion: theory and experiment.

Büttner, H. *see* **Reichl, J., 89b:81077**

Campos, R. G. The para-Bose oscillator in a finite linear space. (Italian and Russian summaries) **89i:81042**

Casati, G. *see* **Brivio, G. P.; et al.,** (Not in MR)

Chancey, C. C. (*with* O'Brien, M. C. M.) Berry's geometric quantum phase and the $T_1 \otimes (\varepsilon_g \oplus \tau_{2g})$ Jahn-Teller effect. **89i:81043**

Chirikov, B. V. (*with* Izraĭlev, F. M.; Shepelyanskiĭ, D. L.) Quantum chaos: localization vs. ergodicity. **89k:81048**

Chou, Weiren (*with* Duffin, R. J.) An additive eigenvalue problem of physics related to linear programming. **89e:81049**

Chudnovskiĭ, E. M. (*with* Gunther, L.) Quantum tunneling of magnetization in small ferromagnetic particles. **89a:81036**

van Dam, H. *see* **Biedenharn, L. C.; et al., 89b:81071**

Dehin, D. Constrained Lagrangians in $N = 2$-superspace formulations for the constant magnetic field system. (*see* **89g:81001**)

Dhar, Avinash The spinning particle with extrinsic curvature. **89m:81064**

Dodonov, V. V. (*with* Man'ko, V. I.) Phase eigenfunctions of multidimensional quadratic Hamiltonians. (Russian) (*see* **89d:81002**)

— (*with* Man'ko, V. I.) The evolution of multidimensional systems. Magnetic properties of ideal gases of charged particles. (Russian) **89f:81066**

— (*with* Man'ko, V. I.) Generalizations of the uncertainty relations in quantum mechanics. (Russian) **89f:81067**

— (*with* Man'ko, V. I.) Invariants and correlated states of nonstationary quantum systems. (Russian) **89i:81044**

Doucha, M. *see* **Reik, H. G.; et al., 89b:81078**

Duffin, R. J. *see* **Chou, Weiren, 89e:81049**

Dunne, Gerald V. (*with* Halliday, I. G.) Negative-dimensional oscillators. **89j:81064**

Düsedau, Dieter W. Adiabatic phases from an effective action. **89d:81040**

Elyutin, P. V. The quantum chaos problem. **89m:81065**

Engineer, M. H. (*with* Ghosh, Gautam) Berry's phase as the asymptotic limit of an exact evolution: an example. **89c:81051**

— Parameter space analogue of the Aharonov-Bohm effect. **89c:81052**

Fedorov, S. E. (*with* Mart'yanov, A. N.) Potential noise immunity of a quantum channel with a noncoherent source of radiation. **89e:81050**

Ford, G. W. (*with* Lewis, John Trevor; O'Connell, R. F.) Dissipative quantum tunneling: quantum Langevin equation approach. **89c:81053**

Freund, Peter G. O. (*with* Olson, Mark) p-adic dynamical systems. **89g:81026**

Fricke, S. H. (*with* Balantekin, A. B.; Hatchell, P. J.; Uzer, T.) Uniform semiclassical approximation to supersymmetric quantum mechanics. **89e:81051**

Garrison, J. C. (*with* Wright, Ewan Malcolm) Complex geometrical phases for dissipative systems. **89j:81065a**

— (*with* Wright, Ewan Malcolm) Erratum: "Complex geometrical phases for dissipative systems". **89j:81065b**

Gershun, V. D. (*with* Pashnev, A. I.) Supersymmetric description of systems of interacting particles with spin. (Russian) (*see* **89d:81001**)

Ghosh, Gautam *see* **Engineer, M. H., 89c:81051**

Gibbons, Gary *see* **Bouchiat, C., 89i:81041**

Gilson, James G. Classical fluid aspects of nonlinear Schrödinger equations and solitons. **89i:81045**

Gomis, J. *see* **Batlle, C.; et al., 89m:81063**

Graham, Robert (*with* Isermann, S.; Tél, T.) Quantization of Hénon's map with dissipation. II. Numerical results. **89k:81049**

Gross, E. K. U. (*with* Oliveira, L. N.; Kohn, W.) Rayleigh-Ritz variational principle for ensembles of fractionally occupied states. **89b:81072**

Grössing, Gerhard (*with* Zeilinger, Anton) Quantum cellular automata. (Not in MR)

— (*with* Zeilinger, Anton) A corrigendum: "Quantum cellular automata" [Complex Systems 2 (1988), no. 2, 197–208]. (Not in MR)

— (*with* Zeilinger, Anton) A conservation law in quantum cellular automata. **89e:81052**

— Comparison of classical and quantum lattice properties with the aid of cellular automata. **89g:81027**

Guarneri, I. *see* **Brivio, G. P.; et al.,** (Not in MR)

Gunther, L. *see* **Chudnovskiĭ, E. M., 89a:81036**

Habeeb, M. A. Z. Fluid-dynamical interpretation of quantum damped oscillators. **89b:81073**

Halliday, I. G. *see* **Dunne, Gerald V., 89j:81064**

Handy, Carlos R. (*with* Bessis, Daniel; Morley, T. D.) Generating quantum energy bounds by the moment method: a linear-programming approach. **89i:81046**

Hatchell, P. J. *see* **Fricke, S. H.; et al., 89e:81051**

Heller, Eric J. *see* **O'Connor, Patrick W., 89j:81069**

Hirayama, Minoru (*with* Tajima, Toshihiko) Vanishing theorems for Hannay angle and Berry phase. **89h:81063**

Holland, P. R. Causal interpretation of Fermi fields. **89h:81064**

Hrubý, J. (*with* Makhan'kov, V. G.) ★ On the SSQM and nonlinear equations. **89c:81054**

Iida, Shinji (*with* Kuratsuji, Hiroshi) Phase holonomy, zero-point energy cancellation and supersymmetric quantum mechanics. **89j:81066**

Ikemori, Hitoshi Superfield formulation of relativistic superparticle. **89b:81074**

Iomin, A. M. *see* **Berman, G. P., 89j:81063**

Isermann, S. *see* **Graham, Robert; et al., 89k:81049**

Izraĭlev, F. M. Quantum localization and statistics of quasienergy spectrum in a classically chaotic system. **89j:81067**

— *see also* **Chirikov, B. V.; et al., 89k:81048**

Jackiw, R. Three elaborations on Berry's connection, curvature and phase. **89h:81065**

Jiang, Xun Dong Complex-coordinate solutions for the eigenvalues of the harmonic oscillator and the hydrogen atom. (Chinese. English summary) **89f:81068**

Jordan, Thomas F. Direct calculation of the Berry phase for spins and helicities. **89d:81041**

Kaufman, Allan N. *see* **McDonald, Steven W., 89b:81075**

Kay, Kenneth G. *see* **Ramachandran, B., 89b:81076**

Klauder, John R. Some recent results on wave equations, path integrals, and semiclassical approximations. **89f:81069**

Kohn, W. *see* **Gross, E. K. U.; et al., 89b:81072**

Komarov, I. V. (*with* Kuznetsov, V. B.) The generalized Goryachev-Chaplygin gyrostat in quantum mechanics. (Russian. English summary) **89e:81053**

— (*with* Tsyganov, A. V.) A two-particle quantum periodic Toda chain. (Russian. English summary) **89g:81028**

Konyukhova, N. B. *see* **Badalyan, A. M.; et al., 89e:81048**

Korsch, H. J. (*with* Steffen, H.) Dissipative quantum dynamics, entropy production and irreversible evolution towards equilibrium. **89a:81037**

Kugler, M. (*with* Shtrikman, S.) Berry's phase, locally inertial frames, and classical analogues. **89c:81055**

Kumar, Narendra[1] *see* **Simon, Rajiah, 89g:81030**

Kundu, A. Integrability of classical and semiclassical derivative nonlinear Schrödinger equation with nonultralocal canonical structure. **89g:81029**
Kuratsuji, Hiroshi *see* **Iida, Shinji, 89j:81066**
Kuzhir, P. G. *see* **Agibalov, A. V., 89f:81062**
Kuznetsov, V. B. *see* **Komarov, I. V., 89e:81053**
Lais, P. *see* **Reik, H. G.; et al., 89b:81078**
Lee, Ching Tsung General solution to the spherical Raman-Nath equation. **89a:81038**
Leopold, J. G. (*with* Richards, Derek) A study of quantum dynamics in the classically chaotic regime. **89d:81043**
Levitan, Jacob Small time behaviour of an unstable quantum system. **89c:81056**
Lewis, John Trevor *see* **Ford, G. W.; et al., 89c:81053**
Makhan′kov, V. G. *see* **Hrubý, J., 89c:81054**
Man′ko, V. I. *see* **Dodonov, V. V., 89f:81066**; **89f:81067**; **89i:81044** *and* (**89d:81002**)
Marmo, G. *see* **Biedenharn, L. C.; et al., 89b:81071**
Martinez, José Chan Adiabatic holonomy phase and vanishing magnetic fields. **89j:81068**
Mart′yanov, A. N. *see* **Fedorov, S. E., 89e:81050**
McAnally, D. S. *see* **Bracken, A. J.**, (**89g:81001**)
McDonald, Steven W. (*with* Kaufman, Allan N.) Wave chaos in the stadium: statistical properties of short-wave solutions of the Helmholtz equation. **89b:81075**
Mondragon, R. J. *see* **Berry, M. V., 89f:81064**
Morandi, G. *see* **Biedenharn, L. C.; et al., 89b:81071**
Morley, T. D. *see* **Handy, Carlos R.; et al., 89i:81046**
Moskalyuk, S. S. (*with* Shelest, V. P.) Group-theoretic models of nonrelativistic dynamical systems. (Russian) (*see* **89d:81002**)
van Mouche, P. Clustering and nesting of energy spectra. **89k:81050**
Mukunda, N. *see* **Biedenharn, L. C.; et al., 89b:81071**
Nakagawa, Norio Geometrical phase factors and higher-order adiabatic approximations. **89h:81066**
Nakamura, Katsuhiro (*with* Thomas, Harry) Quantum billiard in a magnetic field: chaos and diamagnetism. **89d:81044**
Negri, Martín Ricardo *see* **Aliaga, J.; et al., 89k:81047**
Nishioka, Michio Remarks on the Lie-isotopic lifting of the continuity equations. (Not in MR)
O'Brien, M. C. M. *see* **Chancey, C. C., 89i:81043**
O'Connell, R. F. *see* **Ford, G. W.; et al., 89c:81053**
O'Connor, Patrick W. (*with* Heller, Eric J.) Quantum localization for a strongly classically chaotic system. **89j:81069**
Oliveira, L. N. *see* **Gross, E. K. U.; et al., 89b:81072**
Olson, Mark *see* **Freund, Peter G. O., 89g:81026**
Otero, D. *see* **Aliaga, J.; et al., 89k:81047**
Page, Don N. Geometrical description of Berry's phase. **89i:81047**
Panyukov, S. V. *see* **Zaikin, A. D., 89a:81040**
Pariĭskiĭ, B. S. *see* **Badalyan, A. M.; et al., 89e:81048**
Pashnev, A. I. *see* **Gershun, V. D.**, (**89d:81001**)
Pažma, V. (*with* Prešnajder, P.) Short-time propagator in curved spaces. **89h:81067**
Peres, Asher (*with* Schulman, L. S.) Quantum simulation of classically chaotic systems. **89i:81048**
Perotti, L. *see* **Brivio, G. P.; et al.**, (Not in MR)
Plastino, A. *see* **Aliaga, J.; et al., 89k:81047**
Polubarinov, I. V. Extended systems of hypercomplex numbers, and quantum mechanics. (Russian) (*see* **89d:81002**)
Prange, R. E. *see* **Radons, G., 89h:81068**
Prešnajder, P. *see* **Pažma, V., 89h:81067**
Proto, A. N. *see* **Aliaga, J.; et al., 89k:81047**
Radons, G. (*with* Prange, R. E.) Wave functions at the critical Kolmogorov-Arnol′d-Moser surface. **89h:81068**
Ramachandran, B. (*with* Kay, Kenneth G.) Local ergodicity as a probe for chaos in quantum systems: application to the Hénon-Heiles system. **89b:81076**
Reichl, J. (*with* Büttner, H.) Energy spectra for nonlinear oscillators with broken symmetry. **89b:81077**
Reik, H. G. (*with* Lais, P.; Stützle, M. E.; Doucha, M.) Exact solution of the $E \otimes \varepsilon$ Jahn-Teller and Rabi Hamiltonian by generalised spheroidal wavefunctions? **89b:81078**
Richards, Derek *see* **Leopold, J. G., 89d:81043**
Riess, J. Phase singularities and quantum dynamics. **89f:81070**
Robinson, Sam L. The semiclassical limit of quantum dynamics. I. Time evolution. **89c:81057**
Roca, J. *see* **Batlle, C.; et al., 89m:81063**
Rohrlich, Daniel A phase effect in the harmonic oscillator. **89h:81069**
Ronveaux, A. About quadratic transformations connected to Hurwitz transformations. (*see* **89g:81001**)
Roy Chowdhury, A. *see* **Sen, Shibani, 89j:81070** *and* **89m:81066**
Ruelle, P. *see* **Alacoque, C.; et al., 89h:81058**
Sabatier, Pierre C. Remark on the three-dimensional mixed impedance potential equation. **89d:81045a**
— Corrigendum: "Remark on the three-dimensional mixed impedance potential equation". **89d:81045b**
Sadun, L. *see* **Avron, J. E.; et al., 89f:81063**
Samuel, Joseph *see* **Biedenharn, L. C.; et al., 89b:81071**
Sarkar, Sarben The response of a quantum field to classical chaos. **89c:81058**
— (*with* Satchell, J. S.) Measurements on quantum chaotic systems. (Not in MR)
Satchell, J. S. *see* **Sarkar, Sarben**, (Not in MR)
Schulman, L. S. *see* **Peres, Asher, 89i:81048**
Schwendimann, P. *see* **Zeile, K.; et al., 89m:81069**
Segert, J. Nonabelian Berry's phase, accidental degeneracy, and angular momentum. **89d:81042**
— *see also* **Avron, J. E.; et al., 89f:81063**
Sen, Shibani (*with* Roy Chowdhury, A.) On a nonlinear Schrödinger equation in an external field—a Bethe ansatz approach. **89m:81066**
— (*with* Roy Chowdhury, A.) On a quantum version of conservation laws for derivative nonlinear Schrödinger equation. **89j:81070**
Shelest, V. P. *see* **Moskalyuk, S. S.**, (**89d:81002**)
Shepelyanskiĭ, D. L. *see* **Chirikov, B. V.; et al., 89k:81048**
Shtrikman, S. *see* **Kugler, M., 89c:81055**
Sieber, M. *see* **Aurich, R.; et al., 89h:81059**
Sigmund, E. *see* **Zeile, K.; et al., 89m:81069**
Simon, Barry *see* **Avron, J. E.; et al., 89f:81063**
Simon, Rajiah (*with* Kumar, Narendra[1]) A note on the Berry phase for systems having one degree of freedom. **89g:81030**
Steeb, W.-H. (*with* van Tonder, A.) Generalization of energy level motion. **89e:81054**
Steffen, H. *see* **Korsch, H. J., 89a:81037**
Steiner, F. *see* **Aurich, R.; et al., 89h:81059**
Stützle, M. E. *see* **Reik, H. G.; et al., 89b:81078**
Sudarshan, E. C. G. *see* **Biedenharn, L. C.; et al., 89b:81071**
Sun, Chang Pu High-order quantum adiabatic approximation and Berry's phase factor. **89e:81055**
Tajima, Toshihiko *see* **Hirayama, Minoru, 89h:81063**
Takahashi, Kin'ya Time development of distribution function in coarse-grained mechanics. **89b:81079**
Tél, T. *see* **Graham, Robert; et al., 89k:81049**
Thiran, E. *see* **Alacoque, C.; et al., 89h:81058**
Thomas, Harry *see* **Nakamura, Katsuhiro, 89d:81044**
van Tonder, A. *see* **Steeb, W.-H., 89e:81054**
Tsyganov, A. V. *see* **Komarov, I. V., 89g:81028**
Turbiner, A. V. Quantum mechanics: problems intermediate between exactly solvable and completely unsolvable. **89h:81070**
Uehara, Shozo (*with* Yasui, Yukinori) A superparticle on the "super" Poincaré upper half plane. **89g:81031**
Uzer, T. *see* **Fricke, S. H.; et al., 89e:81051**
Varma, Ram K. A generalized Schroedinger formalism from a Hamiltonian flow in a higher-dimensional space. **89m:81067**
Verbaarschot, J. J. M. Higher-order level correlations in integrable quantum systems. **89a:81039**
Verstegen, D. *see* **Alacoque, C.; et al., 89h:81058**
Vinet, Luc Invariant Berry connections. **89d:81046**
Vladimirov, V. S. (*with* Volovich, I. V.) p-adic quantum mechanics. **89m:81068**
Volovich, I. V. *see* **Vladimirov, V. S., 89m:81068**
Voros, A. Unstable periodic orbits and semiclassical quantisation. **89h:81071**
Weyers, J. *see* **Alacoque, C.; et al., 89h:81058**
Whitney, Cynthia Kolb Generalized functions in relativistic potential theory. **89e:81056**
Wilkinson, Michael A semiclassical sum rule for matrix elements of classically chaotic systems. **89f:81071**
Wootters, William K. A Wigner-function formulation of finite-state quantum mechanics. **89d:81047**
Wright, Ewan Malcolm *see* **Garrison, J. C., 89j:81065a** *and* **89j:81065b**
Yamaleev, R. M. ★ Элементы кубичной квантовой механики. (Russian) [Elements of cubic quantum mechanics] **89i:81049**
Yasui, Yukinori *see* **Uehara, Shozo, 89g:81031**
Yurtsever, Ersin (*with* Brickmann, Jürgen) Computationally induced "irregularity" in the spectra of integrable quantum systems. **89j:81071**
Zaikin, A. D. (*with* Panyukov, S. V.) Destruction of coherence in quantum systems with dissipation. **89a:81040**
Zeile, K. (*with* Sigmund, E.; Schwendimann, P.) Spin-$\frac{1}{2}$ system coupled to a single mode: a resolvent expansion of the time-dependent solution. **89m:81069**
Zeilinger, Anton *see* **Grössing, Gerhard, 89e:81052**; (Not in MR) *and* (Not in MR)

Items with secondary classifications in 81C99

Amann, Anton Chirality as a classical observable in algebraic quantum mechanics. **89j:81284**
Andrianov, A. A. (*with* Ioffe, M. V.) Pauli fermions as components of $D = 2$ supersymmetrical quantum mechanics. **89c:81191**
Aneva, B. L. (*with* Boshilov, P.; Stoyanov, D. T.) On the classical mechanics of a nonrelativistic superparticle. **89c:81060**
Aurich, R. (*with* Steiner, F.) On the periodic orbits of a strongly chaotic system. **89k:58171**
Baras, J. S. An optimization problem from linear filtering with quantum measurements. **89g:93094**
Barucchi, G. Generalized Minkowski metric and composition algebras. (Italian and Russian summaries) **89a:17005**
Bennett, Charles H. Notes on the history of reversible computation. **89i:01045**
Berezin, F. A. ★ Метод вторичного квантования. (Russian) [The method of second quantization] **89c:81001**
Berry, M. V. *see* **Keating, J. P., 89c:58102**
Bhandari, Rajendra *see* **Samuel, Joseph, 89m:81022**
Bloch, Anthony M. An infinite-dimensional Hamiltonian system on projective Hilbert space. **89e:58041**
Boshilov, P. *see* **Aneva, B. L.; et al., 89c:81060**
Briet, Ph. *see* **Combes, J. M.; et al., 89a:35150**
Brits, S. J. M. *see* **Steeb, W.-H.; et al., 89e:58096**
Cannata, F. (*with* Ferrari, L.) Dimensions of relativistic quantum mechanical paths. **89j:81022**
Combes, J. M. (*with* Briet, Ph.; Duclos, P.) Spectral properties of Schrödinger operators with trapping potentials in the semiclassical limit. **89a:35150**
Cordero, P. (*with* Hojman, S.) Symmetry transformations in quantum mechanics. (Italian and Russian summaries) **89b:58229**
Cushman, R. (*with* Duistermaat, J. J.) The quantum mechanical spherical pendulum. **89j:58029**
Dahleh, Mohammed *see* **Peirce, Anthony P.; et al., 89h:93041**
Damaskinskiĭ, E. V. Calculation of the Berry phase in contracted states. (Russian. English summary) **89m:81077**
Davies, Brian The quantum Gel′fand-Levitan equation and the nonlinear Schrödinger equation. **89f:81167**

(Drinfel′d, V. G.) *see* **Verdier, Jean-Louis, 89f:17021**
Duclos, P. *see* **Combes, J. M.; et al., 89a:35150**
Duistermaat, J. J. *see* **Cushman, R., 89j:58029**
Ferrari, L. *see* **Cannata, F., 89j:81022**
Garg, Anupam Roughening of two-dimensional quasicrystal interfaces. **89f:82065**
Giannozzi, Paolo (*with* Grosso, Giuseppe; Moroni, Saverio; Pastori Parravicini, Giuseppe) The ordinary and matrix continued fractions in the theoretical analysis of Hermitian and relaxation operators. **89g:81111**
Gillilan, Richard E. *see* **Waterland, Robert L.; et al., 89i:58099**
Gingold, Harry In general, the less degeneracy the less transition. A principle for time-dependent Hamiltonian systems in quantum mechanics. **89g:81114**
Graffi, S. (*with* Nardini, Franco) A remark on the relation between the propagation of singularities for the Schrödinger equation and the KAM tori of the corresponding Hamiltonian system. (Italian. English summary) **89j:58115**
Graham, Robert (*with* Roekaerts, D.) A Nicolai map for supersymmetric quantum mechanics on Riemannian manifolds. **89c:81043**
Grant, Edward *see* **Zwanziger, Josef W., 89b:81255**
Grobe, Rainer (*with* Haake, Fritz; Sommers, H.-J.) Quantum distinction of regular and chaotic dissipative motion. **89i:81005**
Grosso, Giuseppe *see* **Giannozzi, Paolo; et al., 89g:81111**
Guillemin, V. Quasiclassical aspects of reduction. **89b:58185**
Gutzwiller, Martin C. (*with* Mandelbrot, B. B.) Invariant multifractal measures in chaotic Hamiltonian systems, and related structures. **89b:58134**
Haake, Fritz *see* **Grobe, Rainer; et al., 89i:81005**
Hojman, S. *see* **Cordero, P., 89b:58229**
Hosono, Shinobu Berry's phase, Schwinger term and explicit calculations in two dimensions. **89j:81100**
Ino, Taketoshi *see* **Munakata, Yasuo; et al., 89m:81072**
Ioffe, M. V. *see* **Andrianov, A. A., 89c:81191**
Keating, J. P. (*with* Berry, M. V.) False singularities in partial sums over closed orbits. **89c:58102**
Konstantinov, A. Yu. Classes of smooth operators in scattering theory. (Russian) **89k:47028**
Kupsch, J. Measures for fermionic integration. **89b:81202**
Lee, T. D. Difference equations and conservation laws. **89e:81127**
Lemos, Nivaldo A. (*with* Natividade, C. P.) Harmonic oscillator in expanding universes. (Italian and Russian summaries) **89d:83041**
Lieb, Elliott H. (*with* Yau, Horng-Tzer) The Chandrasekhar theory of stellar collapse as the limit of quantum mechanics. **89b:82014**
Lima, R. Problems related to dynamical systems. (Russian summary) **89j:58118**
Littlejohn, Robert G. Phase anholonomy in the classical adiabatic motion of charged particles. **89k:78014**
Lott, J. Real anomalies. **89h:58035**
Luck, J. M. (*with* Orland, H.; Smilansky, U.) On the response of a two-level quantum system to a class of time-dependent quasiperiodic perturbations. **89m:81211**
Mandelbrot, B. B. *see* **Gutzwiller, Martin C., 89b:58134**
Martens, Craig C. *see* **Waterland, Robert L.; et al., 89i:58099**
Martinelli, Fabio (*with* Scoppola, E.) Introduction to the mathematical theory of Anderson localization. **89g:82002**
Matsumoto, Shuji (*with* Yasui, Yukinori) Chaos on the super Riemann surface. **89i:58092**
Meyer, Hans-Dieter Chaotic behavior of classical Hamiltonian systems. **89i:58093**
Meyer, Yves Ondelettes et fonctions splines. [Wavelets and spline functions] **89j:42020**
Moroni, Saverio *see* **Giannozzi, Paolo; et al., 89g:81111**
Munakata, Yasuo (*with* Ino, Taketoshi; Nagamura, Fumiaki) A solvable composite system in relativistic quantum mechanics. **89m:81072**
Nagamura, Fumiaki *see* **Munakata, Yasuo; et al., 89m:81072**
Nardini, Franco *see* **Graffi, S., 89j:58115**
Natividade, C. P. *see* **Lemos, Nivaldo A., 89d:83041**
Orland, H. *see* **Luck, J. M.; et al., 89m:81211**
Orlov, Yu. N. (*with* Pavlotskiĭ, I. P.) The connection between the weakly relativistic Vlasov and Wigner equations at various quantizations. **89c:82010**
Pastori Parravicini, Giuseppe *see* **Giannozzi, Paolo; et al., 89g:81111**
Pavlotskiĭ, I. P. *see* **Orlov, Yu. N., 89c:82010**
Peirce, Anthony P. (*with* Dahleh, Mohammed; Rabitz, Herschel) Optimal control of quantum-mechanical systems: existence, numerical approximation, and applications. **89h:93041**
(Polivanov, M. K.) *see* **Berezin, F. A., 89c:81001**
Rabitz, Herschel *see* **Peirce, Anthony P.; et al., 89h:93041**
Reinhardt, William P. *see* **Waterland, Robert L.; et al., 89i:58099**
Roekaerts, D. *see* **Graham, Robert, 89c:81043**
Samuel, Joseph (*with* Bhandari, Rajendra) General setting for Berry's phase. **89m:81022**
Schick, L. H. Super variational principles. (*see* **89f:62002**)
Schmeelk, John Infinite-dimensional parametric distributions. **89a:46092**
Scoppola, E. *see* **Martinelli, Fabio, 89g:82002**
Scott, A. C. Davydov's soliton. **89c:92032**
Sharma, C. S. Some results in the exact self-consistent field theory of Brueckner. **89j:81291**
Shifman, M. A. (*with* Smilga, A. V.; Vaĭnshteĭn, A. I.) On the Hilbert space of supersymmetric quantum systems. **89b:81143**
Smilansky, U. *see* **Luck, J. M.; et al., 89m:81211**
Smilga, A. V. *see* **Shifman, M. A.; et al., 89b:81143**
Sommers, H.-J. *see* **Grobe, Rainer; et al., 89i:81005**
Steeb, W.-H. (*with* Brits, S. J. M.; van Tonder, A.) Energy level motion and a supersymmetric Hamiltonian. **89e:58096**
Steiner, F. *see* **Aurich, R., 89k:58171**
Stoyanov, D. T. *see* **Aneva, B. L.; et al., 89c:81060**
van Tonder, A. *see* **Steeb, W.-H.; et al., 89e:58096**
Uehara, Shozo (*with* Yasui, Yukinori) Super-Selberg trace formula from the chaotic model. **89m:81118**
Vaĭnshteĭn, A. I. *see* **Shifman, M. A.; et al., 89b:81143**
Verdier, Jean-Louis Groupes quantiques [d'après V. G. Drinfel′d]. [Quantum groups [after V. G. Drinfel′d]] **89f:17021**
Waterland, Robert L. (*with* Yuan, Jian Min; Martens, Craig C.; Gillilan, Richard E.; Reinhardt, William P.) Classical-quantum correspondence in the presence of global chaos. **89i:58099**
Woit, Peter Supersymmetric quantum mechanics, spinors and the standard model. **89i:81146**
Yasui, Yukinori *see* **Matsumoto, Shuji, 89i:58092** *and* **Uehara, Shozo, 89m:81118**
Yau, Horng-Tzer *see* **Lieb, Elliott H., 89b:82014**
Yuan, Jian Min *see* **Waterland, Robert L.; et al., 89i:58099**
Zaslavskiĭ, A. I. Holonomic systems with regular singularities, and wave fronts of Feynman integrals. **89k:58268**
Zwanziger, Josef W. (*with* Grant, Edward) Topological phase in molecular bound states: application to the $E \otimes e$ system. **89b:81255**

81Dxx General quantum mechanics

81D05 Commutation relations

Accardi, Luigi (*with* Parthasarathy, Kalyanapuram Rangachari) A martingale characterization of canonical commutation and anticommutation relations. **89e:81057**
Bullinaria, J. A. Comment on Jourjine's space-time Dirac-Kähler spinors and string model: "Space-time Dirac-Kähler spinors" [Phys. Rev. D (3) **35** (1987), no. 2, 757–758; MR 88c:81044] and "String model with Dirac-Kähler spinors" [ibid. D (3) **34** (1986), no. 4, 1217–1218; MR 87i:81212] by A. Jourjine. **89b:81080**
Dupertuis, M. A. Alternate orderings: a new tool for the study of phase and photon statistics. **89f:81072**
Floreanini, Roberto (*with* Jackiw, R.) Functional representation for fermionic quantum fields. **89e:81058**
Gracia-Bondía, José M. (*with* Várilly, Joseph C.) Phase-space representation for Galilean quantum particles of arbitrary spin. **89j:81072**
Grosse, H. (*with* Pittner, L.) A supersymmetric generalization of von Neumann's theorem. **89d:81048**
Guz, W. A geometric form of the canonical commutation relations. (Italian and Russian summaries) **89i:81050**
Jackiw, R. *see* **Floreanini, Roberto, 89e:81058**
Jannussis, A. D. (*with* Vavougios, D.; Leodaris, A.) Q-model in high energy physics. **89c:81059**
(Jourjine, A.) *see* **Bullinaria, J. A., 89b:81080**
Leodaris, A. *see* **Jannussis, A. D.; et al., 89c:81059**
Matsui, Taku On the implementability of non*Bogoliubov automorphisms of CAR algebras on Fock spaces. **89f:81073**
Nishioka, Michio A simple model of isonorms and of the Lie-admissible lifting of commutation relations. **89j:81073**
Parthasarathy, Kalyanapuram Rangachari (*with* Sinha, K. B.) Stop times in Fock space stochastic calculus. **89h:81072**
— *see also* **Accardi, Luigi, 89e:81057**
Pittner, L. *see* **Grosse, H., 89d:81048**
Reeh, Helmut A remark concerning canonical commutation relations. **89e:81059**
Sinha, K. B. *see* **Parthasarathy, Kalyanapuram Rangachari, 89h:81072**
Streater, R. F. Entropy and the central limit theorem in quantum mechanics. **89e:81060**
Várilly, Joseph C. *see* **Gracia-Bondía, José M., 89j:81072**
Vavougios, D. *see* **Jannussis, A. D.; et al., 89c:81059**

Items with secondary classifications in 81D05

(Accardi, Luigi) *see* **Quantum probability and applications, 89i:81004**
Alves, N. A. (*with* Drigo Filho, E.) The factorisation method and supersymmetry. **89j:81021**
Bender, C. M. (*with* Dunne, Gerald V.) Polynomials and operator orderings. **89h:33012**
Biswas, S. N. (*with* Soni, S. K.) Supersymmetry, parastatistics, and operator realizations of a Lie algebra. **89b:81102**
Dray, Tevian (*with* Manogue, Corinne A.) Bogolubov transformations and completeness. **89j:81025**
Drigo Filho, E. *see* **Alves, N. A., 89j:81021**
Dunne, Gerald V. *see* **Bender, C. M., 89h:33012**
Feinsilver, Philip Discrete analogues of the Heisenberg-Weyl algebra. **89j:17013**
Fichtner, K.-H. (*with* Freudenberg, W.) Point processes and the position distribution of infinite boson systems. **89f:82009**
Fisch, Jean (*with* Henneaux, M.) Representations of the ghost canonical commutation relations and nilpotency of the BRST charge in string theory. **89f:81175**
Freudenberg, W. *see* **Fichtner, K.-H., 89f:82009**
Govorkov, A. B. The Fock representation for quaternion fields. (Russian. English summary) **89f:81082**
Gruber, Bruno Remarks on para-Bose algebra and its indecomposable representations. **89m:81059**
Grundling, Hendrik (*with* Hurst, C. A.) A note on regular states and supplementary conditions. **89f:46131**
Henneaux, M. *see* **Fisch, Jean, 89f:81175**
Hsu, Jong Ping (*with* Whan, Chagarn) Klauder's continuous representations and fuzzy coordinate variables. II. **89k:81017**
Hurst, C. A. *see* **Grundling, Hendrik, 89f:46131**
Manin, Yu. I. Some remarks on Koszul algebras and quantum groups. (French summary) **89e:16022**
Manogue, Corinne A. *see* **Dray, Tevian, 89j:81025**
Matsui, Taku Factoriality and quasi-equivalence of quasifree states for Z_2 and U(1) invariant CAR algebras. **89a:46130**
Montorsi, Arianna (*with* Rasetti, Mario; Solomon, A. I.) Self-consistency and supersymmetry in a many fermion system. **89j:81290**
Rasetti, Mario *see* **Montorsi, Arianna; et al., 89j:81290**
Shukhov, A. G. (*with* Sukhov, Yu. M.) Ergodic properties of groups of the Bogoliubov transformations of CAR C^*-algebras. **89b:82023**

Skyrme, Tony Hilton Royle The origins of Skyrmions. (Not in MR)

Słowikowski, Wojtek Ultracoherence in Bose algebras. **89k:47071**

Solomon, A. I. *see* **Montorsi, Arianna; et al., 89j:81290**

Soni, S. K. *see* **Biswas, S. N., 89b:81102**

Soroka, V. A. *see* **Volkov, D. V., 89a:81041**

Sukhov, Yu. M. *see* **Shukhov, A. G., 89b:82023**

Sun, Chang Pu Boson-fermion realisation of indecomposable representations for Lie superalgebras. **89f:17027**

Volkov, D. V. (*with* Soroka, V. A.) Quantization of dynamic systems with an odd Poisson bracket. **89a:81041**

von Waldenfels, Wilhelm Noncommutative algebraic central limit theorems. **89e:46075**

— *see also* **Quantum probability and applications, 89i:81004**

Whan, Chagarn *see* **Hsu, Jong Ping, 89k:81017**

Wolf, Fritz A remark on the algebraic treatment of coupled oscillators. **89b:81070**

Items listed otherwise than by author

Conference:

Quantum Probability and Applications ★ Quantum probability and applications. III. **89i:81004**

Lecture Notes in Mathematics ★ Quantum probability and applications. III. **89i:81004**

Oberwolfach ★ Quantum probability and applications. III. **89i:81004**

Quantum probability and applications ★ Quantum probability and applications. III. **89i:81004**

81D07 Quantization

Aneva, B. L. (*with* Boshilov, P.; Stoyanov, D. T.) On the classical mechanics of a nonrelativistic superparticle. **89c:81060**

Batalin, I. A. (*with* Fradkin, E. S.) Operator quantization of dynamic systems with constraints of the second kind. (Russian) **89b:81081**

Bengtsson, Ingemar (*with* Cederwall, M.) Particles, twistors and the division algebras. **89k:81051**

Boshilov, P. *see* **Aneva, B. L.; et al., 89c:81060**

Bowick, M. J. (*with* Rajeev, S. G.) The complex geometry of string theory and loop space. **89h:81074**

Cederwall, M. *see* **Bengtsson, Ingemar, 89k:81051**

Cordani, B. Quantization of the Kepler manifold. **89f:81074**

De Alfaro, V. (*with* Fubini, S.; Furlan, G.) Quantisation, instantons and supersymmetry. **89h:81073**

— (*with* Fubini, S.; Furlan, G.; Roncadelli, M.) Operator ordering and supersymmetry. **89d:81049**

Faddeev, L. D. (*with* Jackiw, R.) Hamiltonian reduction of unconstrained and constrained systems. **89i:81051**

Fradkin, E. S. *see* **Batalin, I. A., 89b:81081**

Frolov, S. A. *see* **Slavnov, A. A., 89f:81078**

Fröman, Per Olof *see* **Lundborg, Bengt, 89h:81075**

Fubini, S. *see* **De Alfaro, V.; et al., 89d:81049** *and* **89h:81073**

Furlan, G. *see* **De Alfaro, V.; et al., 89d:81049** *and* **89h:81073**

Gadella, M. (*with* Nieto, L. M.; Noriega, J. M.; Santos, Emilio) The generalized Weyl correspondence and time-dependent stochastic processes. **89d:81050**

Galvão, Carlos A. P. (*with* Lemos, Nivaldo A.) On the quantization of constrained generalized dynamics. **89f:81075**

Gavrilenko, G. M. Secondary quantization of dynamical systems with indeterminacy of part of the phase states. (Russian) (*see* **89g:82003**)

Govindarajan, T. R. *see* **Sudarshan, E. C. G.; et al., 89i:81052**

Grundling, Hendrik (*with* Hurst, C. A.) The quantum theory of second class constraints: kinematics. **89k:81052**

Helleman, Robert H. G. Quantum levels of area-preserving maps. **89k:81053**

Hurst, C. A. *see* **Grundling, Hendrik, 89k:81052**

Imbo, Tom D. (*with* Sudarshan, E. C. G.) Inequivalent quantizations and fundamentally perfect spaces. **89g:81032**

— *see also* **Sudarshan, E. C. G.; et al., 89i:81052**

Isham, C. J. (*with* Linden, Noah) Group theoretic quantisation of strings on tori. **89m:81070**

Jackiw, R. *see* **Faddeev, L. D., 89i:81051**

Komarov, I. V. (*with* Kuznetsov, V. B.) Quasiclassical quantization of the Kovalevskaya top. (Russian. English summary) **89f:81076**

Krause, Jorge Galilean quantum kinematics. **89b:81082**

Ktorides, C. N. (*with* Papaloucas, L. C.) A special construction of Berezin's L-kernel. **89f:81077**

Kuznetsov, V. B. *see* **Komarov, I. V., 89f:81076**

Lemos, Nivaldo A. *see* **Galvão, Carlos A. P., 89f:81075**

Li, Ting Xiang (*with* Zhang, Han Bo) Operator substitutions and G-type coordinate systems. (Chinese. English summary) **89j:81074**

Linden, Noah *see* **Isham, C. J., 89m:81070**

Lundborg, Bengt (*with* Fröman, Per Olof) Improvement of the generalized quantal Bohr-Sommerfeld quantization condition. **89h:81075**

Man'ko, V. I. (*with* Trifonov, D. A.) Nonuniqueness of the variational formulation of classical equations of motion and quantization rules. (*see* **89g:81001**)

Martellini, M. (*with* Sánchez, Norma) Thermal event horizons, moduli and boson operator formalism on Riemann surfaces. **89b:81083**

McMullan, D. (*with* Paterson, J.) Factor ordering and ghost variables. **89h:81076**

Minowa, H. *see* **Nakamura, Masayoshi; et al., 89m:81071**

Mishima, Nobuhiko *see* **Nakamura, Masayoshi; et al., 89m:81071**

Nakamura, Masayoshi (*with* Minowa, H.; Mishima, Nobuhiko) Operator ordering in quantization on the sphere. **89m:81071**

Nemeschansky, Dennis (*with* Preitschopf, C.; Weinstein, Marvin) A BRST primer. **89h:81077**

Nieto, L. M. *see* **Gadella, M.; et al., 89d:81050**

Noriega, J. M. *see* **Gadella, M.; et al., 89d:81050**

Papaloucas, L. C. *see* **Ktorides, C. N., 89f:81077**

Paterson, J. *see* **McMullan, D., 89h:81076**

Preitschopf, C. *see* **Nemeschansky, Dennis; et al., 89h:81077**

Rajeev, S. G. *see* **Bowick, M. J., 89h:81074**

Roncadelli, M. *see* **De Alfaro, V.; et al., 89d:81049**

Ruggeri, G. J. Dirac bracket revisited. **89h:81078**

Sánchez, Norma *see* **Martellini, M., 89b:81083**

Santos, Emilio *see* **Gadella, M.; et al., 89d:81050**

Slavnov, A. A. (*with* Frolov, S. A.) Quantization of a nonabelian antisymmetric tensor field. **89f:81078**

Smilga, A. V. Quantization of supersymmetric theories. (Russian) (*see* **89d:81001**)

Soroka, V. A. *see* **Volkov, D. V., 89a:81041**

Stoyanov, D. T. *see* **Aneva, B. L.; et al., 89c:81060**

Sudarshan, E. C. G. (*with* Imbo, Tom D.; Govindarajan, T. R.) Configuration space topology and quantum internal symmetries. **89i:81052**

— *see also* **Imbo, Tom D., 89g:81032**

Trifonov, D. A. *see* **Man'ko, V. I., (89g:81001)**

Volkov, D. V. (*with* Soroka, V. A.) Quantization of dynamic systems with an odd Poisson bracket. **89a:81041**

Weinstein, Marvin *see* **Nemeschansky, Dennis; et al., 89h:81077**

Zhan, You Bang On the momentum operators and correspondence rule in curvilinear coordinates in quantum mechanics. **89i:81053**

Zhang, Han Bo *see* **Li, Ting Xiang, 89j:81074**

Items with secondary classifications in 81D07

Adachi, Satoshi *see* **Hasegawa, Hiroshi, 89b:81252**

Aitchison, I. J. R. Berry phases, magnetic monopoles, and Wess-Zumino terms or how the skyrmion got its spin. **89c:81070**

Akulov, V. P. (*with* Sorokin, D. P.; Bandos, I. A.) Particle mechanics in harmonic superspace. **89k:81123**

Aldaya, V. (*with* Navarro-Salas, Jose) Formal group laws for affine Kac-Moody groups and group quantization. **89b:22026**

Aldrovandi, R. (*with* Pereira, J. G.) On the quantization of Poincaré and de Sitter gauge models. **89i:81065**

de Almeida da Silva, M. A. (*with* Barcelos-Neto, J.; Braga, N. R. F.) Canonical quantization of the σ-model with torsion in superspace. **89f:81126**

Bakas, I. (*with* Kakas, A. C.) Quantum mechanics of nonlinear systems. **89a:81028**

Bandos, I. A. *see* **Akulov, V. P.; et al., 89k:81123**

Barcelos-Neto, J. *see* **de Almeida da Silva, M. A.; et al., 89f:81126**

Blau, Matthias On the geometric quantisation of constrained systems. **89j:58038**

Bombelli, Luca The general program. (*see* **89m:83003**)

Braga, N. R. F. *see* **de Almeida da Silva, M. A.; et al., 89f:81126**

Brana, J. (*with* Marjanović-Gabela, N.; Samek, D.) Quantization of the free electromagnetic field in the new formulation. (Serbo-Croatian summary) (Not in MR)

Bullinaria, J. A. Comment on Jourjine's space-time Dirac-Kähler spinors and string model: "Space-time Dirac-Kähler spinors" [Phys. Rev. D (3) **35** (1987), no. 2, 757–758; MR 88c:81044] and "String model with Dirac-Kähler spinors" [ibid. D (3) **34** (1986), no. 4, 1217–1218; MR 87i:81212] by A. Jourjine. **89b:81080**

Cabo, A. On equivalence transformations generated by pure first-class constraints. **89i:70023**

Cahen, Michel Déformations et quantification. [Deformations and quantization] **89k:58107**

Carena, Marcela (*with* Wagner, Carlos; Masperi, Luis) Nonabelian theory for massive vector bosons and canonical quantization. **89a:81065**

Crumeyrolle, A. Planck's constant and symplectic geometry. **89e:58054**

Dayi, Ömer F. Operator quantization of the massive superparticle. **89j:81168**

— A note on the BFV-BRST operator quantization method. **89m:81134**

Dodonov, V. V. (*with* Man'ko, V. I.) The evolution of multidimensional systems. Magnetic properties of ideal gases of charged particles. (Russian) **89f:81066**

D'Olivo, J. C. (*with* Torres, Manuel) The canonical formalism and path integrals in curved spaces. **89i:81032**

Dresse, Alain (*with* Fisch, Jean; Henneaux, M.; Schomblond, Christiane) Consistent elimination of redundant second-class constraints. **89j:81171**

Duff, M. J. (*with* Inami, T.; Pope, C. N.; Sezgin, E.; Stelle, K. S.) Semiclassical quantization of the supermembrane. **89h:81179**

Dunne, Gerald V. Quantum canonical invariance—a Moyal approach. **89k:58108**

Elhadad, Jimmy Quantification géométrique et structure hyperfine de l'atome d'hydrogène. [Geometric quantization and hyperfine structure of the hydrogen atom] **89d:58049**

Filk, T. (*with* Römer, H.) Topological weights and combinatorical unitarity in first and second quantization. **89g:81072**

Fisch, Jean *see* **Dresse, Alain; et al., 89j:81171**

Flesher, G. I. *see* **Strokov, P. V., 89a:81166**

Frolov, S. A. (*with* Slavnov, A. A.) Physical subspace norm in Hamiltonian BRST-quantization. **89m:81141**

Fukuda, Reijiro (*with* Higurashi, H.) Equilibrium limit of the stochastic quantization in Minkowski space. **89j:81181**

Galetti, D. (*with* de Toledo Piza, A. F. R.) An extended Weyl-Wigner transformation for special finite spaces. **89h:81045**

Gan, Dan Yan Semiclassical approximation in quantum mechanics and Maslov characteristic classes. (Chinese. English summary) **89a:58104**

Gracia-Bondía, José M. (*with* Várilly, Joseph C.) Nonnegative mixed states in Weyl-Wigner-Moyal theory. **89e:81038**

Hasegawa, Hiroshi (*with* Adachi, Satoshi) Quadratic Zeeman spectra for the hydrogen atom by means of semiclassical quantization. **89b:81252**

Henneaux, M. *see* **Dresse, Alain; et al., 89j:81171**

Higurashi, H. *see* **Fukuda, Reijiro, 89j:81181**

Horowski, M. (*with* Kryszeń, A.; Odzijewicz, A.) Classical and quantum mechanics on the unit ball in C^n. **89e:58055**

Inami, T. *see* **Duff, M. J.; et al., 89h:81179**

Isham, C. J. Group theory and the canonical quantization of strings on tori. **89j:81189**

(Jourjine, A.) *see* **Bullinaria, J. A., 89b:81080**
Kakas, A. C. *see* **Bakas, I., 89a:81028**
Karasёv, M. V. *see* **Vorob′ev, Yu. M., 89c:58046**
Klauder, John R. Quantization is geometry, after all. **89j:81051**
Kryszeń, A. *see* **Horowski, M.; et al., 89e:58055**
Kuchař, Karel V. Covariant quantization of dynamical systems with constraints. **89j:83043**
Landau, Lawrence J. Gaussian quantum fields and stochastic electrodynamics. **89f:81051**
Lee, Joohan Geometric quantization. (*see* **89m:83003**)
Leznov, A. N. (*with* Mukhtarov, M. A.) The internal symmetry algebra of completely integrable dynamical systems in the quantum regime. (Russian. English summary) **89b:81204**
Lhallabi, T. $N=2$ supersymmetric Ward identities on the harmonic superspace. **89d:81061**
Lichnerowicz, André Deformations and geometric (KMS)-conditions. **89m:58080**
Lin, En Bing Hadronic quantization. **89j:58119**
Lukš, Antonín (*with* Peřinová, V.) Ordering of field operators and equations of motion in quantum optics. **89b:81266**
Malik, R. P. BRST quantization of the chiral Schwinger model. **89h:81214**
Man′ko, V. I. *see* **Dodonov, V. V., 89f:81066**
Mansfield, P. The relationship among canonical quantisation, Polyakov's functional integral and BRST quantisation of the string. **89c:81145**
Marjanović-Gabela, N. *see* **Brana, J.; et al.,** (Not in MR)
Marmo, G. (*with* Saletan, E. J.; Schmid, Rudolf; Simoni, A.) Bi-Hamiltonian dynamical systems and the quadratic-Hamiltonian theorem. (Italian and Russian summaries) **89h:58064**
Masperi, Luis *see* **Carena, Marcela; et al., 89a:81065**
Mészáros, A. Gupta-Bleuler quantisation of the free massless spin 2 field. **89c:81063**
Mladenov, Ivailo M. (*with* Tsanov, Vasil V.) Geometric quantisation of the MIC-Kepler problem. **89k:58109**
Mukhtarov, M. A. *see* **Leznov, A. N., 89b:81204**
Müller-Kirsten, H. J. W. (*with* Wiedemann, A.) The use of the chain rule in the presence of constraints. (Italian and Russian summaries) **89k:70035**
Narcowich, Francis J. The problem of moments in the phase-space formulation of quantum mechanics. **89h:81048**
Navarro-Salas, Jose *see* **Aldaya, V., 89b:22026**
Nielsen, Holger Bech (*with* Rohrlich, Daniel) A path integral to quantize spin. **89h:81054**
Niemi, Antti J. On BRST quantization of second class constraint algebras. **89i:58041**
Nissimov, E. (*with* Pacheva, S.; Solomon, S.) Covariant canonical quantization of the Green-Schwarz superstring. **89a:81143**
Odzijewicz, A. On reproducing kernels and quantization of states. **89k:58110**
— *see also* **Horowski, M.; et al., 89e:58055**
Pacheva, S. *see* **Nissimov, E.; et al., 89a:81143**
Palumbo, F. Quantization of gauge theories on a torus. (Italian summary) **89a:81076**
Percacci, R. On the quantization of a theory with global gauge anomalies. **89h:81120**
Pereira, J. G. *see* **Aldrovandi, R., 89i:81065**
Peřinová, V. *see* **Lukš, Antonín, 89b:81266**
Pope, C. N. *see* **Duff, M. J.; et al., 89h:81179**
Prokhorov, L. V. Quantization of the electromagnetic field. **89i:81142**
Puta, Mircea Geometric quantization of the reduced phase space of the cotangent bundle. **89e:58056**
— Geometric quantization of the spherical pendulum. **89m:58081**
Robert, Didier ★ Autour de l'approximation semi-classique. (French) [On semiclassical approximation] **89g:81016**
Rohrlich, Daniel *see* **Nielsen, Holger Bech, 89h:81054**
Römer, H. *see* **Filk, T., 89g:81072**
Rovelli, Carlo Group quantization of constrained systems. (Italian and Russian summaries) **89g:58082**
Saini, Subhash (*with* Zakrzewski, Jakub; Taylor, Howard S.) Semiclassical quantization via adiabatic switching. II. Choice of tori and initial conditions for multidimensional systems. **89k:81039**
— *see also* **Zakrzewski, Jakub; et al., 89k:81038**
Saito, Takesi (*with* Wu, Ke) Holomorphic geometry of interacting strings. **89c:81162**
Saletan, E. J. *see* **Marmo, G.; et al., 89h:58064**
Samek, D. *see* **Brana, J.; et al.,** (Not in MR)
Schmid, Rudolf *see* **Marmo, G.; et al., 89h:58064**
Schomblond, Christiane *see* **Dresse, Alain; et al., 89j:81171**
Sezgin, E. *see* **Duff, M. J.; et al., 89h:81179**
Simoni, A. *see* **Marmo, G.; et al., 89h:58064**
Slavnov, A. A. *see* **Frolov, S. A., 89m:81141**
Solomon, S. *see* **Nissimov, E.; et al., 89a:81143**
Sorokin, D. P. *see* **Akulov, V. P.; et al., 89k:81123**
Souriau, Jean-Marie Quantification géométrique. [Geometric quantization] **89m:58082**
Spera, Mauro Quantization on abelian varieties. **89i:32058**
Stelle, K. S. *see* **Duff, M. J.; et al., 89h:81179**
Strokov, P. V. (*with* Flesher, G. I.) Quantization of a system of particles that have anomalous momenta. (Russian) **89a:81166**
Sun, Chang Pu Indecomposable generalisations of the standard angular momentum representations of $SO(3)$. **89a:81034**
Szabó, László E. Quantum kinematics of strings: quantization on $C^\infty(M^3, \mathbf{R}^2)/C^\infty(M^3, GL(2,\mathbf{R}))$. **89c:81169**
Taylor, Howard S. *see* **Zakrzewski, Jakub; et al., 89k:81038** *and* **Saini, Subhash; et al., 89k:81039**
de Toledo Piza, A. F. R. *see* **Galetti, D., 89h:81045**
Torres, Manuel *see* **D'Olivo, J. C., 89i:81032**
Tsanov, Vasil V. *see* **Mladenov, Ivailo M., 89k:58109**
Tuynman, G. M. (*with* Wiegerinck, W. A. J. J.) Central extensions and physics. **89m:58083**
— Quantization: towards a comparison between methods. **89f:58064**
— Geometric quantization, generalised Bergman kernels; applications. **89f:58065**
Unterberger, André Quantification et équations aux dérivées partielles. [Quantization and partial differential equations] **89b:58084**
— (*with* Unterberger, Julianne) Quantification et analyse pseudo-différentielle. [Quantization and pseudodifferential analysis] **89h:58187**
Unterberger, Julianne *see* **Unterberger, André, 89h:58187**
Várilly, Joseph C. *see* **Gracia-Bondía, José M., 89e:81038**
Vladimirov, V. S. (*with* Volovich, I. V.) p-adic quantum mechanics. **89m:81068**
Volovich, I. V. *see* **Vladimirov, V. S., 89m:81068**
Vorob′ev, Yu. M. (*with* Karasёv, M. V.) Corrections to the classical dynamics and to the quantization conditions arising in the deformation of Poisson brackets. **89c:58046**
Voros, A. Unstable periodic orbits and semiclassical quantisation. **89h:81071**
Wagner, C. E. M. Canonical quantization of nonabelian gauge theories in two dimensions. **89j:81117**
Wagner, Carlos *see* **Carena, Marcela; et al., 89a:81065**
Wiedemann, A. *see* **Müller-Kirsten, H. J. W., 89k:70035**
Wiegerinck, W. A. J. J. *see* **Tuynman, G. M., 89m:58083**
Wu, Ke *see* **Saito, Takesi, 89c:81162**
Zakrzewski, Jakub (*with* Saini, Subhash; Taylor, Howard S.) Semiclassical quantization via adiabatic switching. I. Choice of tori and initial conditions for two-dimensional systems. **89k:81038**
— *see also* **Saini, Subhash; et al., 89k:81039**

81D10 Bethe-Salpeter equation

Arkhipov, A. A. The causality principle in the problem of simultaneous reduction in quantum field theory. **89i:81054**
Fukuda, Reijiro Stability conditions in quantum system. A general formalism. **89j:81075**
Ino, Taketoshi *see* **Munakata, Yasuo; et al., 89m:81072**
Kaase, W. Noniterative solutions of the Bethe-Salpeter equation in a model with noncanonical propagators. **89e:81061**
Ma, Gui Rong (*with* Zhang, Jian Zu) A class of spinor structures of the potentials in Bethe-Salpeter equations. (Chinese. English summary) **89f:81079**
Munakata, Yasuo (*with* Ino, Taketoshi; Nagamura, Fumiaki) A solvable composite system in relativistic quantum mechanics. **89m:81072**
Nagamura, Fumiaki *see* **Munakata, Yasuo; et al., 89m:81072**
Nakanishi, Noboru Review of the Wick-Cutkosky model. (*see* **89f:81080**)
— *see also* **Behavior of the solutions to the Bethe-Salpeter equation, 89f:81080** *and* **Bibliography: Bethe-Salpeter equation, (89f:81080)**
(Noda, Matu-tarow) *see* **Bibliography: Bethe-Salpeter equation, (89f:81080)**
Sazdjian, H. The connection of two-particle relativistic quantum mechanics with the Bethe-Salpeter equation. **89b:81084**
Setô, Noriaki Review of the spinor-spinor Bethe-Salpeter equation—spectral properties in the massless ladder model. (*see* **89f:81080**)
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Zhang, Jian Zu *see* **Ma, Gui Rong, 89f:81079**

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Behavior of the solutions to the Bethe-Salpeter equation ★ Behavior of the solutions to the Bethe-Salpeter equation. **89f:81080**
Bibliography:
Bethe-Salpeter equation Bibliography of the Bethe-Salpeter equation. (*see* **89f:81080**)

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Hussein, M. S. (*with* Marques, G. C.) Symmetrical representation of the transition matrix. I. Formal development. **89b:81232**
Mainland, G. Bruce Helicity eigenstates of a relativistic spin-0 and spin-1/2 constituent bound by minimal electrodynamics: zero orbital angular momentum, zero four-momentum solutions. **89h:81261**
Marques, G. C. *see* **Hussein, M. S., 89b:81232**
Murota, Toshiyuki Hyperfine structure in positronium. (*see* **89f:81080**)

81D15 Current algebra

Ader, J. P. (*with* Bouda, A.; Wallet, J. C.) Perturbative BRST current algebra anomalies for the free bosonic string. **89j:81076**
Atakishiev, N. M. *see* **Rustamov, K. A.; et al., 89h:81082**
de Azcárraga, J. A. (*with* Lukierski, J.) Superfield algebraic structures with Grassmann-valued structure constants. (*see* **89g:81001**)
Baaquie, Belal E. The Kac-Moody and Virasoro commutation equations. **89e:81062**
Badalov, V. G. *see* **Rustamov, K. A.; et al., 89h:81082**
Bakas, I. (*with* McMullan, D.) Group theoretical quantization on loop spaces and the Sugawara construction. **89h:81079**
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Bouda, A. *see* **Ader, J. P.; et al., 89j:81076**
Chen, Cheng Ming *see* **Gao, Xiao Chun; et al., 89e:81063**
Cho, B. H. *see* **Park, D. K.; et al., 89b:81085**
Da Silva, A. J. *see* **Gomes, Marcelo O. C.; et al., 89h:81080**
Gao, Xiao Chun (*with* Chen, Cheng Ming; Wang, Yong) An infinite set of nonlocal conserved currents in a two-dimensional nonlinear σ-model. (Chinese. English summary) **89e:81063**
Goff, William E. *see* **Stone, Michael, 89h:81083**
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Hamada, K.-J. (*with* Takao, Masaru) Spin-4 current algebra. **89j:81077a**
— (*with* Takao, Masaru) Errata: "Spin-4 current algebra". **89j:81077b**
Hehl, Friedrich W. *see* **Kopczyński, Wojciech; et al., 89f:81081**
Kawai, Toshiya Two-cocycle and transformation law of the current. **89g:81033**
Kim, H. S. *see* **Park, D. K.; et al., 89b:81085**

Kobayashi, Ken-ichiro (*with* Odake, S.) Fermionic construction of $N = 0, 1, 2$ (super) conformal algebras. **89h:81081**

Kopczyński, Wojciech (*with* McCrea, J. Dermott; Hehl, Friedrich W.) The Weyl group and its currents. **89f:81081**

Kurak, V. Remarks on degenerate theories of the conformal invariant quantum field theory. **89c:81061**

— *see also* **Gomes, Marcelo O. C.; et al., 89h:81080**

Li, Keke (*with* Warner, N. P.) Bosonic realization of $N = 2$ super-conformal algebras. **89m:81073**

Lukierski, J. *see* **de Azcárraga, J. A.**, (**89g:81001**)

Macfarlane, A. J. Current algebra for chiral $G \times G$ theory with Wess-Zumino term. (*see* **89h:81006**)

McCrea, J. Dermott *see* **Kopczyński, Wojciech; et al., 89f:81081**

McMullan, D. *see* **Bakas, I., 89h:81079**

Nahm, Werner Lie group exponents and SU(2) current algebras. **89k:81055**

Neuberger, Herbert BRS cohomology and Casimir operators. **89e:81064**

Odake, S. *see* **Kobayashi, Ken-ichiro, 89h:81081**

Park, D. K. (*with* Kim, H. S.; Cho, B. H.; Yi, S. H.) Extended Sugawara model with anomaly. **89b:81085**

Radzhabov, B. A. *see* **Rustamov, K. A.; et al., 89h:81082**

Rehren, K.-H. Locality of conformal fields in two dimensions: exchange algebra on the light-cone. **89d:81051**

Rustamov, K. A. (*with* Atakishiev, N. M.; Radzhabov, B. A.; Badalov, V. G.) Symmetry properties of the equations of quantum nonrelativistic and relativistic oscillators. (Russian. English and Azerbaijani summaries) **89h:81082**

Sasaki, Ryu *see* **Yamanaka, Itaru, 89k:81056**

Stone, Michael (*with* Goff, William E.) Berry's phase, commutators, and the Dirac sea. **89h:81083**

Takao, Masaru *see* **Hamada, K.-J., 89j:81077a** *and* **89j:81077b**

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Wallet, J. C. *see* **Ader, J. P.; et al., 89j:81076**

Wang, Yong *see* **Gao, Xiao Chun; et al., 89e:81063**

Warner, N. P. *see* **Li, Keke, 89m:81073**

Yamanaka, Itaru (*with* Sasaki, Ryu) Super Virasoro algebra and solvable supersymmetric quantum field theories. **89k:81056**

Yi, S. H. *see* **Park, D. K.; et al., 89b:81085**

Items with secondary classifications in 81D15

(Arcuri, R.) *see* **Olive, D. I., 89c:17027**

Baake, Michael Branching rules for unitary representations of Virasoro and super-Virasoro algebras at $c = 1$. **89i:17013**

Bardakci, K. (*with* Rabinovici, E.; Säring, B.) String models with $c < 1$ components. **89f:81159**

Bernard, Denis On the Wess-Zumino-Witten models on the torus. **89k:81130**

Carey, A. L. (*with* Ruijsenaars, S. N. M.) On fermion gauge groups, current algebras and Kac-Moody algebras. **89b:22027**

Cho, B. H. *see* **Park, S. U.; et al., 89k:58129**

Clavelli, L. (*with* Harms, B.) Excited-state vertices for type-I superstrings. **89h:81249**

Corrigan, E. (*with* Hollowood, T. J.) Comments on the algebra of straight, twisted and intertwining vertex operators. **89h:81176**

Cougo-Pinto, M. V. The construction of $B_l^{(1)}$ in terms of vertex operators and a Lie-admissible not associative algebra. **89m:17039**

Deser, S. (*with* Redlich, A. N.) CP^1-fermion correspondence in three dimensions. **89h:81263**

Di Vecchia, P. (*with* Hornfeck, K.; Yu, Ming) Infinite number of conserved charges and the N-string vertex. **89f:81168**

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Fairlie, D. B. (*with* Fletcher, P.; Zachos, C. K.) Trigonometric structure constants for new infinite-dimensional algebras. **89k:17038**

Falkowski, B.-J. Current group and 1-cohomology for $\mathrm{SL}(2;\mathbf{C})$. **89a:22025**

Fateev, V. A. (*with* Lykyanov, S. L.) The models of two-dimensional conformal quantum field theory with Z_n symmetry. **89b:81186**

Ferreira, L. A. (*with* Gomes, J. F.; Zimerman, A. H.) Vertex operators and Jordan fields. **89j:17017**

Fil′, B. N. (*with* Prikarpat·skiĭ, A. K.; Pritula, N. N.) The quantum Lie algebra of currents—the universal algebraic structure of symmetries of completely integrable dynamical systems. (Russian. English summary) **89b:58090**

Fletcher, P. *see* **Fairlie, D. B.; et al., 89k:17038**

Furlong, Randall C. Dynamical cosmic strings from a gauge theory of gravity. **89k:83082**

Ge, Mo Lin *see* **Lü, Jing Fa, 89f:81194**

Gepner, Doron New conformal field theories associated with Lie algebras and their partition functions. **89b:81188**

Goddard, Peter (*with* Olive, D. I.; Waterson, G.) Superalgebras, symplectic bosons and the Sugawara construction. **89c:17030**

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Gomes, J. F. *see* **Ferreira, L. A.; et al., 89j:17017** *and* **Olive, D. I., 89c:17027**

Harms, B. *see* **Clavelli, L., 89h:81249**

Hollowood, T. J. *see* **Corrigan, E., 89h:81176**

Hornfeck, K. *see* **Di Vecchia, P.; et al., 89f:81168**

Hosono, Shinobu (*with* Seo, Koichi) Current commutator anomalies and chiral anomalies in the canonical formalism. **89h:81133**

Hou, Bo Yu (*with* Zhang, Yao Zhong) Some remarks on the extension of loop groups. **89h:81106**

Huang, Chao Shang (*with* Zhao, Wei Dong; Zhao, Zhi Yong) Spinning string models on group manifolds with twisted boundary conditions. **89f:81182**

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Lecomte, P. B. A. (*with* Roger, Claude) Formal deformations of the associative algebra of smooth matrices. **89f:58013**

Lü, Jing Fa (*with* Ge, Mo Lin) On algebraic structures in the nonlinear principal chiral model. **89f:81194**

Lykyanov, S. L. *see* **Fateev, V. A., 89b:81186**

Mathieu, Pierre Superconformal algebra and supersymmetric Korteweg-de Vries equation. **89c:58052**

Matsuo, Yutaka Moduli space, conformal algebra and operator formulation on a Riemann surface. **89f:81197**

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Nahm, Werner *see* **Goddard, Peter; et al., 89g:17014**

Neretin, Yu. A. Representations of Virasoro algebra and affine algebras. (Russian) **89k:17039**

Ni, Guang Jiong *see* **Wang, Rong Tai, 89j:81227**

Olive, D. I. Kac-Moody and Virasoro algebras in local quantum physics. **89c:17027**

— *see also* **Goddard, Peter; et al., 89c:17030** *and* **89g:17014**

Osipov, È. P. Sugawara's construction for Kac-Moody-Malcev algebras. **89j:17020**

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Polyakov, A. M. Quantum gravity in two dimensions. **89b:83049**

Prikarpat·skiĭ, A. K. *see* **Fil′, B. N.; et al., 89b:58090**

Pritula, N. N. *see* **Fil′, B. N.; et al., 89b:58090**

Rabinovici, E. *see* **Bardakci, K.; et al., 89f:81159**

Rajeev, S. G. *see* **Mickelsson, Jouko, 89h:17031**

Redlich, A. N. *see* **Deser, S., 89h:81263**

Rocha-Caridi, Alvany Representation theory of the Virasoro and super-Virasoro algebras: irreducible characters. **89d:17023**

Roger, Claude *see* **Lecomte, P. B. A., 89f:58013**

Roy, Shibaji *see* **Panigrahi, Prasanta K.; et al., 89j:81109**

Ruegg, H. *see* **Goddard, Peter; et al., 89g:17014**

Ruijsenaars, S. N. M. *see* **Carey, A. L., 89b:22027**

Säring, B. *see* **Bardakci, K.; et al., 89f:81159**

Scherer, Wolfgang *see* **Panigrahi, Prasanta K.; et al., 89j:81109**

Schmid, Christoph H. *see* **Isler, K.; et al., 89c:81132**

Schwimmer, Adam *see* **Goddard, Peter; et al., 89g:17014**

Seo, Koichi *see* **Hosono, Shinobu, 89h:81133**

Shnider, Steven The superconformal algebra in higher dimensions. **89m:17004**

Trugenberger, C. A. *see* **Isler, K.; et al., 89c:81132**

Verdiev, Ĭ. A. Multiplicative integrals of representations of PSU(1, 1), SU(2) and vertex operators. **89g:22029**

Wang, Rong Tai (*with* Ni, Guang Jiong) The correspondence principle in (1 + 1)-dimensional field theory and the Coleman theorem. **89j:81227**

Waterson, G. *see* **Goddard, Peter; et al., 89c:17030**

Witten, Edward Coadjoint orbits of the Virasoro group. **89c:22038**

Yu, Ming *see* **Di Vecchia, P.; et al., 89f:81168**

Zachos, C. K. *see* **Fairlie, D. B.; et al., 89k:17038**

Zhang, Yao Zhong Removing Faddeev's commutator anomaly. **89b:81146**

— *see also* **Hou, Bo Yu, 89h:81106**

Zhao, Wei Dong *see* **Huang, Chao Shang; et al., 89f:81182**

Zhao, Zhi Yong *see* **Huang, Chao Shang; et al., 89f:81182**

Zimerman, A. H. *see* **Ferreira, L. A.; et al., 89j:17017**

81D20 Broken symmetries

Davis, Richard Lynn (*with* Shellard, E. P. S.) Antisymmetric tensors and spontaneous symmetry breaking. **89i:81055**

Feng, Da-hsuan *see* **Zhang, Wei Min; et al., 89j:81078**

Gatto, Raoul (*with* Sartori, G.) Consequences of the complex character of the internal symmetry in supersymmetric theories. **89a:81042**

Ghaboussi, F. Group theory of spontaneous symmetry breaking. **89e:81065**

Konishi, Kenichi Dynamical breaking of symmetries in supersymmetric gauge theories. (*see* **89a:81005**)

Martens, Craig C. *see* **Zhang, Wei Min; et al., 89j:81078**

Polychronakos, Alexios P. Symmetry-breaking patterns in (2 + 1)-dimensional gauge theories. **89d:81052**

Sartori, G. *see* **Gatto, Raoul, 89a:81042**

Shellard, E. P. S. *see* **Davis, Richard Lynn, 89i:81055**

Yuan, Jian Min *see* **Zhang, Wei Min; et al., 89j:81078**

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Items with secondary classifications in 81D20

Anishetty, R. (*with* Basu, Rahul; Sharatchandra, H. S.) A general property of spontaneously broken SUSY theories. **89f:81152**

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Azcoiti, V. Vacuum structure in nonabelian compact SU(N) gauge theories. **89g:81060**

Bagchi, Bijan *see* **Lahiri, Anuradha; et al., 89c:81207**

Basu, Rahul *see* **Anishetty, R.; et al., 89f:81152**
Belvedere, L. V. Comments on dynamical mass versus superconducting gap generation. **89j:81161**
Bollé, D. (*with* Dupont, Patrick Jean; Roekaerts, D.) On the Nicolai map and Witten index for two-dimensional supersymmetric magnetic field systems. **89d:81032**
Cadoni, M. $N = 1$ supergravity models based on noncompact Hermitian symmetric coset spaces. **89g:83052**
Chang, Lay-Nam (*with* Chang, Ngee-Pong) Renormalisation programme and dynamical symmetry breaking. (*see* **89b:81008**)
Chang, Ngee-Pong *see* **Chang, Lay-Nam, (89b:81008)**
Clark, T. E. (*with* Lee, C.-H.; Love, S. T.) Anti-symmetric tensor gauge theories. **89i:81067**
Davies, A. T. (*with* McLachlan, A.) Gauge group breaking by Wilson loops. **89a:81066**
Dolan, B. P. (*with* Tchrakian, D. H.) New Lagrangians for bosonic m-branes with vanishing cosmological constant. **89i:81087**
Dong, Zhi Hua (*with* Liu, Jian Heng; Shi, Wan Zhong; Ying, Peng Cheng) Pattern of E_6 symmetry breaking in the superstring theory. **89d:81092**
Dupont, Patrick Jean *see* **Bollé, D.; et al., 89d:81032**
Fannes, Mark (*with* Nachtergaele, B.; Verbeure, A.) The equilibrium states of the spin-boson model. **89b:81251**
Ferrara, S. (*with* Kounnas, Costas; Porrati, Massimo) Superstring solutions with spontaneously broken four-dimensional symmetries. **89h:81183**
— (*with* Kounnas, Costas; Porrati, Massimo) $N = 1$ superstrings with spontaneously broken symmetries. **89h:81184**
Gandhi, S. K. (*with* Stelle, K. S.) Vanishing of the supermembrane partition function. **89m:81098**
Huang, Justin C. *see* **Sungar, Nilgun, 89c:81198**
Johnson, P. W. *see* **Atkinson, D., 89f:81244a** *and* **89f:81244b**
Kobayashi, Ken-ichiro (*with* Lee, Kyung-Hwa; Uematsu, Tsuneo) Effective Lagrangian for spontaneously broken $N = 2$ superconformal symmetry. **89k:81192**
Koryukin, V. M. Gravitational fields and the extended gauge formalism. (Russian) **89h:83023**
Kounnas, Costas (*with* Quirós, M.; Zwirner, Fabio) A custodial symmetry for the cosmological constant in the effective theories of four-dimensional superstrings. **89f:81192**
— (*with* Porrati, Massimo) Spontaneous supersymmetry breaking in string theory. **89j:81194**
— *see also* **Ferrara, S.; et al., 89h:81183** *and* **89h:81184**
Krasnikov, N. V. Breaking of supersymmetry in superstring theories. **89e:81092**
Lahiri, Anuradha (*with* Roy, Prodyot Kumar; Bagchi, Bijan) Supersymmetry in atomic physics and the radial problem. **89c:81207**
Lee, C.-H. *see* **Clark, T. E.; et al., 89i:81067**
Lee, Kyung-Hwa *see* **Kobayashi, Ken-ichiro; et al., 89k:81192**
Liu, Jian Heng *see* **Dong, Zhi Hua; et al., 89d:81092**
Love, S. T. *see* **Clark, T. E.; et al., 89i:81067**
McInnes, Brett The geometry of gauge symmetry breaking in the superstring context. **89m:81116**
McLachlan, A. *see* **Davies, A. T., 89a:81066**
Nachtergaele, B. *see* **Fannes, Mark; et al., 89b:81251**
Pirogov, Yu. F. On massless fermions in composite models with exceptional confining groups. **89m:81190**
Porrati, Massimo *see* **Ferrara, S.; et al., 89h:81183; 89h:81184** *and* **Kounnas, Costas, 89j:81194**
Quirós, M. *see* **Kounnas, Costas; et al., 89f:81192**
Roekaerts, D. *see* **Bollé, D.; et al., 89d:81032**
Roy, Prodyot Kumar *see* **Lahiri, Anuradha; et al., 89c:81207**
Safian, Alex M. Some more nonabelian Q-balls. **89h:81228**
Sato, Hikaru Classification of symmetry breaking by Wilson lines on the Z orbifold. **89a:81149**
Sharatchandra, H. S. *see* **Anishetty, R.; et al., 89f:81152**
Shi, Wan Zhong *see* **Dong, Zhi Hua; et al., 89d:81092**
Stelle, K. S. *see* **Gandhi, S. K., 89m:81098**
Strocchi, F. Long range dynamics and spontaneous symmetry breaking in many-body systems. (*see* **89c:00037**)
Sungar, Nilgun (*with* Huang, Justin C.) GL(20, C) model for spin-1 and spin-2 fields. **89c:81198**
Tchrakian, D. H. *see* **Dolan, B. P., 89i:81087**
Uematsu, Tsuneo *see* **Kobayashi, Ken-ichiro; et al., 89k:81192**
Verbeure, A. *see* **Fannes, Mark; et al., 89b:81251**
Wagemans, P. Breaking of $N = 4$ supergravity to $N = 1, 2$ at $\Lambda = 0$. **89j:81256**
Ying, Peng Cheng *see* **Dong, Zhi Hua; et al., 89d:81092**
Zamolodchikov, Aleksandr B. Higher-order integrals of motion in two-dimensional models of the field theory with a broken conformal symmetry. **89c:81175**
Zoupanos, G. Wilson flux breaking and coset space dimensional reduction. **89e:81100**
Zwirner, Fabio *see* **Kounnas, Costas; et al., 89f:81192**

81D25 Covariant wave equations

Ahrens, T. Group-theoretic derivation of equations for massive and massless spin-one and spin-one-half fields. (Italian and Russian summaries) **89b:81087**
Barut, A. O. (*with* Moore, R. A.; Scott, T. C.) Comment on the paper: "An exactly soluble relativistic quantum two-fermion problem" [J. Math. Phys. 27 (1986), no. 12, 3055–3060; MR 88a:81238] by Barut and N. Ünal. **89a:81043**
Bengtsson, Anders K. H. (*with* Bengtsson, Ingemar; Cederwall, M.; Linden, Noah) Particles, superparticles, and twistors. **89b:81088**
Bengtsson, Ingemar *see* **Bengtsson, Anders K. H.; et al., 89b:81088**
Benn, I. M. (*with* Tucker, R. W.) Clifford analysis of wave equations. **89d:81053**
Borgardt, A. A. (*with* Karpenko, D. Ya.) The light cone in linear and nonlinear field theory. (Russian. English summary) **89g:81034**
Borneas, M. On a nonlinear equation. (Romanian summary) **89g:81035a**
— Comments on a nonlinear equation. (Romanian summary) **89g:81035b**
Brink, Lars Field theories for higher spins. (*see* **89b:81008**)
Capri, A. Z. (*with* Kobayashi, Masanori) The first-rank tensor field coupled to an electromagnetic field. **89b:81089**
Castagnino, Mario (*with* el Hasi, C. D.; Mazzitelli, F. D.; Paz, J. P.) On the Dirac equation in anisotropic backgrounds. **89h:81084**
Cederwall, M. *see* **Bengtsson, Anders K. H.; et al., 89b:81088**
Cufaro Petroni, Nicola (*with* Gueret, Philippe; Vigier, J.-P.) Second-order wave equation for spin-$\frac{1}{2}$ fields: 8-spinors and canonical formulation. **89k:81057**
Daniel, Michael On the fundamental spinor fields representing massless fermions in d dimensions. **89b:81090**
Delbourgo, R. Grassmann wave functions and intrinsic spin. **89k:81058**
Derrick, G. H. Complete orthonormal sets on the past light cone. I. Functions belonging to mass zero and helicity s. **89e:81066**
Fedorov, F. I. *see* **Glazkov, D. Yu., 89m:81076**
Foot, R. (*with* Joshi, G. C.) Remark concerning the twistor formulation of a massless particle, and the division algebras. **89m:81074**
Fradkin, E. S. (*with* Vasil′ev, M. A.) Candidate for the role of higher-spin symmetry. **89h:81085**
Fushchich, V. I. (*with* Shtelen′, V. M.; Zhdanov, R. Z.) Conformally invariant generalization of the Dirac-Heisenberg equation, and its exact solution. (Russian) (*see* **89d:81001**)
— (*with* Zhdanov, R. Z.) Nonlocal ansätze for the Dirac equation. **89m:81075**
Gazeau, J.-P. (*with* Hans, M.) Conformally invariant wave equations on $3 + 2$ de Sitter space. (*see* **89g:81001**)
Glazkov, D. Yu. (*with* Fedorov, F. I.) T-invariance of first-order relativistic equations. **89m:81076**
Govorkov, A. B. The Fock representation for quaternion fields. (Russian. English summary) **89f:81082**
Grubić, Nebojša Some considerations in the new free Dirac field theory. (Serbo-Croatian. English summary) **89e:81067**
Gueret, Philippe *see* **Cufaro Petroni, Nicola; et al., 89k:81057**
Hans, M. *see* **Gazeau, J.-P., (89g:81001)**
el Hasi, C. D. *see* **Castagnino, Mario; et al., 89h:81084**
Heidenreich, W. (*with* Lorente, M.) Quantization of conformally invariant Bargmann-Wigner equations with gauge freedom. **89f:81083**
Holland, P. R. Relativistic algebraic spinors and quantum motions in phase space. **89e:81068**
Holm, Christian Neutrino spectrum of Einstein universes. **89k:81059**
Horzela, A. *see* **Kapuścik, Èdvard, 89b:81091**
Imaeda, K. (*with* Tachibana, H.; Imaeda, M.; Ohta, Susumu) Solutions of the octonion wave equation and the theory of functions of an octonion variable. (Italian and Russian summaries) **89a:81044**
Imaeda, M. *see* **Imaeda, K.; et al., 89a:81044**
Inskeep, Warren H. On electromagnetic spinors and quantum theory. **89f:81084**
Joshi, G. C. *see* **Foot, R., 89m:81074**
Kapuścik, Èdvard (*with* Horzela, A.) ★ О волновых уравнениях, инвариантных относительно расширенной группы Галилея. (Russian) [Wave equations that are invariant with respect to the extended Galilei group] **89b:81091**
Karpenko, D. Ya. *see* **Borgardt, A. A., 89g:81034**
Khapaev, A. M. *see* **Ternov, I. M.; et al., 89i:81056**
Kimura, Tadahiko *see* **Oda, Ichiro; et al., 89j:81080**
Kobayashi, Masanori *see* **Capri, A. Z., 89b:81089**
Koutroulos, C. G. General necessary conditions for the derivation of the secondary constraints of a first-order relativistic wave equation. **89j:81079**
Kruglov, S. I. (*with* Radyuk, A. F.) The matrix form and some solutions of equations of Feynman-Gell-Mann type for a particle with spin $\frac{3}{2}$. (Russian) **89a:81045**
Linden, Noah *see* **Bengtsson, Anders K. H.; et al., 89b:81088**
Ljolje, K. Some remarks on the Dirac and electromagnetic free fields theory. (Serbo-Croatian summary) **89e:81069**
— Some remarks on variational formulations of physical fields. **89c:81062**
Lõhmus, J. (*with* Sorgsepp, Leo Karl) Nonassociative extension of the matrix structure of the Dirac equation. (Russian) (*see* **89d:81002**)
Loide, R.-K. Massless equations for an antisymmetric tensor field. (Russian) **89a:81046**
— On the theory of particles with spin $\frac{3}{2}$. (Russian) **89f:81085**
Lorente, M. *see* **Heidenreich, W., 89f:81083**
Malinov, P. N. Relativistic matrix wave equations with a singular free term. **89e:81070**
Mazzitelli, F. D. *see* **Castagnino, Mario; et al., 89h:81084**
Mészáros, A. Gupta-Bleuler quantisation of the free massless spin 2 field. **89c:81063**
Miković, Aleksandar R. Equations of motion for $N = 1$ massless super-Poincaré representations in $D = 3, 4$ space-time. **89e:81071a**
— (*with* van de Ven, Anton E. M.) Free equations of motion for all $D = 6$ supermultiplets. **89e:81071b**
Moore, R. A. *see* **Barut, A. O.; et al., 89a:81043**
Nakamura, Atsushi *see* **Oda, Ichiro; et al., 89j:81080**
Ne'eman, Yuval Search for the equation of an infinite-component world-spinor field. **89e:81072**
Oda, Ichiro (*with* Kimura, Tadahiko; Nakamura, Atsushi) Superparticles and division algebras—ten dimensions and octonions. **89j:81080**
Ohta, Susumu *see* **Imaeda, K.; et al., 89a:81044**
Okolowski, J. A. (*with* Slomiana, M.) Particlelike solutions to nonlinear classical real scalar field theories. **89g:81036**
Paz, J. P. *see* **Castagnino, Mario; et al., 89h:81084**
Pletyukhov, V. A. (*with* Strazhev, V. I.) On the theory of particles with spin $\frac{3}{2}$. (Russian) **89b:81092**
— (*with* Strazhev, V. I.) Possible generalizations of the Dirac-Kähler equation. (Russian. English summary) **89h:81086**
Ponomarev, I. V. *see* **Ternov, I. M.; et al., 89i:81056**
Radyuk, A. F. *see* **Kruglov, S. I., 89a:81045**
Rastall, Peter New forms of the Dirac equation. (Italian and Russian summaries) **89j:81081**

Sazdjian, H. The Foldy-Wouthuysen transformation in the two-particle case. (French summary) **89b:81093**

Scott, T. C. *see* **Barut, A. O.; et al., 89a:81043**

Shapiro, R. L. *see* **Vilenkin, N. Ya.**, (**89d:81002**)

Shtelen′, V. M. *see* **Fushchich, V. I.; et al.**, (**89d:81001**)

Slomiana, M. *see* **Okolowski, J. A., 89g:81036**

Sorgsepp, Leo Karl *see* **Lõhmus, J.**, (**89d:81002**)

Strazhev, V. I. *see* **Pletyukhov, V. A., 89b:81092** *and* **89h:81086**

Tachibana, H. *see* **Imaeda, K.; et al., 89a:81044**

Ternov, I. M. (*with* Khapaev, A. M.; Ponomarev, I. V.) On some solutions of relativistic wave equations. (German summary) **89i:81056**

Thornber, N. S. Exact classical solution for a Dirac field coupled to a pseudoscalar φ^4 field theory. **89k:81060**

Tucker, R. W. *see* **Benn, I. M., 89d:81053**

(Ünal, N.) *see* **Barut, A. O.; et al., 89a:81043**

Vasil′ev, M. A. Free massless fields of arbitrary spin in the de Sitter space and initial data for a higher spin superalgebra. **89b:81094**

— Free massless fields of arbitrary spin in de Sitter space and initial data for a higher-spin superalgebra. **89e:81073**

— *see also* **Fradkin, E. S., 89h:81085**

van de Ven, Anton E. M. *see* **Miković, Aleksandar R., 89e:81071b**

Vigier, J.-P. *see* **Cufaro Petroni, Nicola; et al., 89k:81057**

Vilenkin, N. Ya. (*with* Shapiro, R. L.) The Lorentz group and some integral relations for Bessel functions. (Russian) (*see* **89d:81002**)

Zhdanov, R. Z. A nonlinear spinor equation that admits an infinite-parameter symmetry group. (Russian) **89f:81086**

— *see also* **Fushchich, V. I., 89m:81075** *and* (**89d:81001**)

Items with secondary classifications in 81D25

Arodź, H. (*with* Ruijgrok, Th. W.) On a classical limit of the Dirac equation with an external electromagnetic field. I. Proper-time evolution, Lorentz covariant expectation values and classical equations of motion. **89d:81119**

Blau, Steven K. (*with* Visser, Matt; Wipf, Andreas) Determinants of conformal wave operators in four dimensions. **89i:81086**

Burdet, G. (*with* Perrin, Martine-Jacqueline) A geometric insight into the Fokker-Planck equation. **89k:53068**

Caianiello, Eduardo R. Quantum geometry, maximal acceleration and the world of pure spinors. (*see* **89b:81007**)

Costa de Beauregard, O. Sur le couplage entre une particule de spin zéro de Proca et le champ gravitationnel d'Einstein. (English summary) [On the coupling of a spin zero Proca particle and Einstein's gravitational field] **89j:83006**

Cutler, Curt (*with* Wald, Robert M.) A new type of gauge invariance for a collection of massless spin-2 fields. I. Existence and uniqueness. **89c:81082**

(Fradkin, E. S.) *see* **Ginzburg, V. L.**, (**89b:81008**)

Ginzburg, V. L. About Efim Samoilovich Fradkin and the equations for higher-spin particles. (*see* **89b:81008**)

Heidenreich, W. Massless particles in de Sitter space. (*see* **89g:81001**)

Howe, P. S. (*with* Penati, S.; Pernici, M.; Townsend, P. K.) Wave equations for arbitrary spin from quantization of the extended supersymmetric spinning particle. **89j:81142**

Hughston, L. P. Applications of SO(8) spinors. **89i:81035**

Janković, Z. A critical remark on the concept of mass. **89j:70002**

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Konshteĭn, S. E. (*with* Vasil′ev, M. A.) Massless representations and admissibility condition for higher spin superalgebras. **89m:17013**

Moylan, Patrick Joseph A generalization of the Fourier transform and applications to quantum field theory. **89k:81107**

Onufreĭchuk, S. P. Group-theoretic properties of countable systems of equations of Dirac type. (Russian) **89g:58222**

Penati, S. *see* **Howe, P. S.; et al., 89j:81142**

Penrose, Roger (*with* Rindler, Wolfgang) ★ Spinors and space-time. Vol. 2. **89d:83010**

Pernici, M. *see* **Howe, P. S.; et al., 89j:81142**

Perrin, Martine-Jacqueline *see* **Burdet, G., 89k:53068**

Rindler, Wolfgang *see* **Penrose, Roger, 89d:83010**

Ruijgrok, Th. W. *see* **Arodź, H., 89d:81119**

Sazdjian, H. The scalar product in two-particle relativistic quantum mechanics. **89j:81306**

Sternheimer, Daniel Recent developments in nonlinear representations and evolution equations. **89j:58050**

Townsend, P. K. *see* **Howe, P. S.; et al., 89j:81142**

Trubelja, Mladen Higher-order interaction of the new Dirac field and the electromagnetic field. (Serbo-Croatian. English summary) **89g:81103**

Vasil′ev, M. A. *see* **Konshteĭn, S. E., 89m:17013**

Visser, Matt *see* **Blau, Steven K.; et al., 89i:81086**

Vroegindeweij, P. G. ★ The Clifford algebra of space-time applied to field theories. Part I. **89d:15007**

Wald, Robert M. A new type of gauge invariance for a collection of massless spin-2 fields. II. Geometrical interpretation. **89c:81083**

— *see also* **Cutler, Curt, 89c:81082**

Wipf, Andreas *see* **Blau, Steven K.; et al., 89i:81086**

81D27 Spinor and twistor methods (use only for secondary classification)

Items with secondary classifications in 81D27

Bengtsson, Anders K. H. (*with* Bengtsson, Ingemar; Cederwall, M.; Linden, Noah) Particles, superparticles, and twistors. **89b:81088**

Bengtsson, Ingemar (*with* Cederwall, M.) Particles, twistors and the division algebras. **89k:81051**

— *see also* **Bengtsson, Anders K. H.; et al., 89b:81088**

Benn, I. M. (*with* Tucker, R. W.) Clifford analysis of wave equations. **89d:81053**

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Buchdahl, H. A. On the compatibility of relativistic wave equations in Riemann spaces. V. **89a:81086**

Budinich, P. (*with* Dąbrowski, L.; Furlan, P.) Minimal surfaces and strings from spinors: a realization of the Cartan programme. (Italian summary) **89b:53012**

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Cahen, Michel (*with* Gutt, S.; Lemaire, L.; Spindel, Ph.) Killing spinors. **89d:53122**

Caianiello, Eduardo R. Quantum geometry, maximal acceleration and the world of pure spinors. (*see* **89b:81007**)

— "Spineurs simples", "Urfelder" and factorizations of Dirac equations and spinors. **89b:81062**

Cederwall, M. *see* **Bengtsson, Anders K. H.; et al., 89b:81088** *and* **Bengtsson, Ingemar, 89k:81051**

Chau, Ling-Lie (*with* Milewski, Bartosz) Linear system and conservation laws for $d = 10$ super-Yang-Mills. **89b:53111**

Chung, K.-W. (*with* Sudbery, A.) Octonions and the Lorentz and conformal groups of ten-dimensional space-time. **89a:81169**

Crumeyrolle, A. Conjugation in spinor spaces: Majorana and Weyl spinors. **89f:53024**

Cufaro Petroni, Nicola (*with* Gueret, Philippe; Vigier, J.-P.) Second-order wave equation for spin-$\frac{1}{2}$ fields: 8-spinors and canonical formulation. **89k:81057**

Dąbrowski, L. *see* **Budinich, P.; et al., 89b:53012**

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Endo, Ryusuke Gravitational anomalies: antisymmetric tensor gauge field versus bispinor field. **89b:81154**

Foot, R. (*with* Joshi, G. C.) Remark concerning the twistor formulation of a massless particle, and the division algebras. **89m:81074**

Frescura, F. A. M. (*with* Hiley, B. J.) Some spinor implications unfolded. (*see* **89m:81006**)

(Furlan, G.) *see* **Spinors in physics and geometry, 89j:53002**

Furlan, P. *see* **Budinich, P.; et al., 89b:53012**

Gal′perin, A. S. (*with* Ivanov, Evgeniĭ Alekseevich^2; Ogievetskiĭ, V. I.; Sokatchev, E. S.) Conformal invariance in harmonic superspace. **89m:81096**

Garland, H. (*with* Murray, M. K.) Kac-Moody monopoles and periodic instantons. **89m:53133**

Giler, S. (*with* Kosiński, P.; Rembieliński, J.; Maślanka, P.) On SO(p,q) pure spinors. **89c:53013**

Greiner, Martin (*with* Scheid, Werner; Herrmann, Richard) Collective spin from the linearisation of $(2\lambda + 1)$-dimensional Schrödinger equations as used for nuclear surface vibrations. **89m:81196**

Gueret, Philippe *see* **Cufaro Petroni, Nicola; et al., 89k:81057**

Gutt, S. *see* **Cahen, Michel; et al., 89d:53122**

Helfer, Adam D. Stein covers for curved twistor spaces. **89k:32059**

— A formula for the local solution of the self-dual Yang-Mills equations. **89b:32039**

Herrmann, Richard *see* **Greiner, Martin; et al., 89m:81196**

Hiley, B. J. *see* **Frescura, F. A. M.**, (**89m:81006**)

Hughston, L. P. Applications of SO(8) spinors. **89i:81035**

— (*with* Shaw, William T.) Real classical strings. **89i:53044**

— (*with* Shaw, William T.) Classical strings in ten dimensions. **89i:53045**

— (*with* Shaw, William T.) Constraint-free analysis of relativistic strings. **89i:53046**

Illge, R. On spinor field equations of Buchdahl and Wünsch. (German summary) **89m:81114**

Inskeep, Warren H. On electromagnetic spinors and quantum theory. **89f:81084**

Ivanov, Evgeniĭ Alekseevich^2 *see* **Gal′perin, A. S.; et al., 89m:81096**

Janković, Z. Electromagnetic field and the 4-spinor space vector structure. **89h:53050**

Joshi, G. C. *see* **Foot, R., 89m:81074**

(Jourjine, A.) *see* **Bullinaria, J. A., 89b:81080**

Karpio, A. (*with* Kryszeń, A.; Odzijewicz, A.) Two-twistor conformal Hamiltonian spaces. **89g:58068**

Kosiński, P. *see* **Giler, S.; et al., 89c:53013**

Kryszeń, A. *see* **Karpio, A.; et al., 89g:58068**

Lee, Joohan Spinors. (*see* **89m:83003**)

Lemaire, L. *see* **Cahen, Michel; et al., 89d:53122**

Linden, Noah *see* **Bengtsson, Anders K. H.; et al., 89b:81088**

Lukierski, J. Supersymmetric extension of twistor formalism. **89a:58009**

— (*with* Nowicki, Anatol) General superspaces from supertwistors. **89j:81084**

Maślanka, P. *see* **Giler, S.; et al., 89c:53013**

Merkulov, S. A. Local supertwistors. **89k:83079**

— $N = 2$ local supertwistors. **89m:83095**

Milewski, Bartosz *see* **Chau, Ling-Lie, 89b:53111**

Murray, M. K. *see* **Garland, H., 89m:53133**

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Novozhilov, Yu. V. (*with* Yanna, Yu. A.) An analogue of the Penrose transform for a de Sitter space of the second kind. (Russian. English summary) **89b:81213**

Nowicki, Anatol *see* **Lukierski, J., 89j:81084**

Odzijewicz, A. On reproducing kernels and quantization of states. **89k:58110**

— *see also* **Karpio, A.; et al., 89g:58068**

Ogievetskiĭ, V. I. *see* **Gal′perin, A. S.; et al., 89m:81096**

Penrose, Roger On the origins of twistor theory. **89i:32060**

— (*with* Rindler, Wolfgang) ★ Spinors and space-time. Vol. 2. **89d:83010**

Rembieliński, J. *see* **Giler, S.; et al., 89c:53013**

Rice, John W. *see* **Eastwood, Michael G., 89d:22012**

Rindler, Wolfgang *see* **Penrose, Roger, 89d:83010**

Scheid, Werner *see* **Greiner, Martin; et al., 89m:81196**

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Shaw, Ronald A new view of $d = 7$ Clifford algebra. **89e:15038**

Shaw, William T. *see* **Hughston, L. P., 89i:53044; 89i:53045** *and* **89i:53046**
Šijački, Djordje *see* **Ne'eman, Yuval, 89e:22014**
Sokatchev, E. S. *see* **Gal'perin, A. S.; et al., 89m:81096**
Spindel, Ph. *see* **Cahen, Michel; et al., 89d:53122**
Sternberg, S. On charge conjugation. **89c:22041**
Sudbery, A. *see* **Chung, K.-W., 89a:81169**
(Trautman, Andrzej) *see* **Spinors in physics and geometry, 89j:53002**
Tucker, R. W. *see* **Benn, I. M., 89d:81053**
Urbantke, H. On complex-valued scalar waves of the simply-progressive type. **89h:53045**
Vigier, J.-P. *see* **Cufaro Petroni, Nicola; et al., 89k:81057**
Woit, Peter Supersymmetric quantum mechanics, spinors and the standard model. **89i:81146**
Yamaleev, R. M. ★ О решениях уравнения Дирака в спинорном пространстве. (Russian) [Solutions of the Dirac equation in a spinor space] **89k:81030**
Yanna, Yu. A. *see* **Novozhilov, Yu. V., 89b:81213**

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Spinors in Physics and Geometry ★ Spinors in physics and geometry. **89j:53002**
Spinors in physics and geometry ★ Spinors in physics and geometry. **89j:53002**
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81D30 Coherent states

Avram, N. M. *see* **Drăgănescu, Gh. E., 89a:81047**
Bach, Alexander Quanta and coherent states. **89h:81087**
Bartzis, B. S. *see* **Jannussis, A. D., 89i:81059**
Battle, Guy Heisenberg proof of the Balian-Low theorem. **89i:81057**
Bernabeu, E. *see* **Sanchez-Soto, L. L., 89f:81087**
Bishop, R. F. (*with* Vourdas, A.) A new coherent paired state with possible applications to fluctuation-dissipation phenomena. **89b:81095**
— (*with* Vourdas, A.) Coherent mixed states and a generalised P representation. **89b:81096**
— (*with* Vourdas, A.) General two-mode squeezed states. **89h:81088**
— *see also* **Vourdas, A., 89j:81083**
Chaturvedi, S. (*with* Sriram, M. S.; Srinivasan, V.) Berry's phase for coherent states. **89e:81074**
Damaskinskiĭ, E. V. Calculation of the Berry phase in contracted states. (Russian. English summary) **89m:81077**
Dodonov, V. V. (*with* Kurmyshev, E. V.; Man'ko, V. I.) Correlated coherent states of a charged particle in a homogeneous magnetic field. (Russian) (*see* **89d:81002**)
Drăgănescu, Gh. E. (*with* Avram, N. M.) Coherent states for an harmonic damped oscillator associated to the O(2, 1) group. **89a:81047**
Fan, Hong Yi Normal product representation for SU_3 group. **89e:81075**
— Normal product expansion of rotation operators gained by coherent state method. **89m:81078**
— New applications of the coherent state to quantum rotation. **89a:81048**
— New state vector representation for the two-dimensional harmonic oscillator. **89b:81097a**
— A convenient representation for describing an electron in a uniform magnetic field. **89b:81097b**
— (*with* Klauder, John R.) Canonical coherent-state representation of some squeeze operators. **89i:81058**
— Errata: "New state vector representation for the two-dimensional harmonic oscillator". **89b:81097c**
— Application of IWOP technique to quantum-classical correspondence for spherical polar coordinate system. **89b:81098**
— Differential forms of fundamental completeness relations in quantum mechanics. **89g:81037**
— Squeeze operator and the single-complex-variable representation in two-mode Fock space. **89k:81061**
Gerry, Christopher C. (*with* Ma, Philip K.; Vrscay, E. R.) Dynamics of SU(1, 1) coherent states driven by a damped harmonic oscillator. **89j:81082**
Glotzer, Sharon C. *see* **Henry, Richard W., 89b:81099**
Henry, Richard W. (*with* Glotzer, Sharon C.) A squeezed-state primer. **89b:81099**
Jannussis, A. D. (*with* Bartzis, B. S.) Coherent states for the harmonic oscillator with time-dependent mass and frequency. **89i:81059**
Klauder, John R. *see* **Fan, Hong Yi, 89i:81058**
Kurmyshev, E. V. *see* **Dodonov, V. V.; et al., (89d:81002)**
Lee, Ching Tsung Classical entropy of a coherent spin state: a local minimum. **89i:81060**
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Ma, Philip K. *see* **Gerry, Christopher C.; et al., 89j:81082**
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Man'ko, V. I. *see* **Dodonov, V. V.; et al., (89d:81002)**
Orszag, M. (*with* Salamó, S.) Squeezing and minimum uncertainty states in the supersymmetric harmonic oscillator. **89m:81079**
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Salamó, S. *see* **Orszag, M., 89m:81079**
Sanchez-Soto, L. L. (*with* Bernabeu, E.) Time evolution of generalized coherent states. (Italian and Russian summaries) **89f:81087**
Srinivasan, V. *see* **Chaturvedi, S.; et al., 89e:81074**
Sriram, M. S. *see* **Chaturvedi, S.; et al., 89e:81074**
Teitler, S. *see* **Rajagopal, A. K., (89f:62002)**
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Wang, Fa Bo The coherent state method for the calculation of Feynman transition matrix elements. (Chinese. English summary) **89m:81080**
Xu, Bo Wei *see* **Ma, Yong Jian**, (Not in MR)

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Abdalla, M. Sebawe (*with* Ramjit, Ursula A. T.) Quantum mechanics of the damped pulsating oscillator. **89k:81208**
Bagrov, V. G. (*with* Belov, V. V.) Destruction time of given accuracy of quasiclassical trajectory-coherent states. **89f:81029**
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Barnett, S. M. (*with* Knight, P. L.) Squeezing in correlated quantum systems. (*see* **89m:81213a**)
Barrett, B. R. *see* **Balantekin, A. B.; et al., 89e:22032**
Bartzis, V. E. *see* **Jannussis, A. D., 89j:81298**
Bechler, Adam Generation of squeezed states in a homogeneous magnetic field. **89f:81284**
Belov, V. V. (*with* Karavaev, A. G.) Higher approximations for the quasiclassical trajectory-coherent states of a nonrelativistic particle. (Russian) **89e:81027**
— *see also* **Bagrov, V. G., 89f:81029**
Brander, O. *see* **DeFacio, B., 89h:81253**
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Chiao, Raymond Y. (*with* Jordan, Thomas F.) Lorentz-group Berry phases in squeezed light. **89j:81296**
DeFacio, B. (*with* Brander, O.) Coherent-state path-integral formulation of inverse scattering theory. **89h:81253**
Dodonov, V. V. (*with* Man'ko, V. I.) Invariants and correlated states of nonstationary quantum systems. (Russian) **89i:81044**
Fan, Hong Yi (*with* Ren, Yong) New applications of the coherent state in calculating the class operator of rotation group. **89h:81055**
Fatyga, B. W. (*with* Kostelecký, V. Alan; Truax, D. Rodney) Baker-Campbell-Hausdorff relations for the orthosymplectic group OSP(1/2). **89j:22040**
Garbaczewski, Piotr (*with* Prorok, Dariusz) Stochastic mechanics and the Kepler problem: scattering states. **89e:81032**
Gerry, Christopher C. (*with* Kiefer, Jerry) Radial coherent states for the Coulomb problem. **89m:81202**
Graham, Robert Squeezing and frequency changes in harmonic oscillations. (*see* **89m:81213a**)
Habeeb, M. A. Z. Fluid-dynamical interpretation of quantum damped oscillators. **89b:81073**
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Henty, J. C. (*with* Howe, P. S.; Townsend, P. K.) Quantum mechanics of the relativistic spinning particle. **89h:81051**
Hillery, Mark (*with* Mlodinow, Leonard D.) Bounds from a conservation law in the Dicke model. **89i:81160**
Horowski, M. (*with* Kryszeń, A.; Odzijewicz, A.) Classical and quantum mechanics on the unit ball in C^n. **89e:58055**
Howe, P. S. *see* **Henty, J. C.; et al., 89h:81051**
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Jannussis, A. D. (*with* Bartzis, V. E.) Exact calculation of the squeezed states in the q-representation. **89j:81298**
Jordan, Thomas F. *see* **Chiao, Raymond Y., 89j:81296**
Kallosh, R. (*with* Rakhmanov, M. A.) Gauge algebra and quantization of type II superstrings. **89i:81116**
Karavaev, A. G. *see* **Belov, V. V., 89e:81027**
Kesteloot, E. *see* **Broeckhove, J.; et al., 89f:81260**
Kiefer, Jerry *see* **Gerry, Christopher C., 89m:81202**
Klauder, John R. Global, uniform, asymptotic wave-equation solutions for large wavenumbers. **89f:78019**
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Knight, P. L. *see* **Barnett, S. M., (89m:81213a)**
Kostelecký, V. Alan *see* **Fatyga, B. W.; et al., 89j:22040**
Krivoshlykov, S. G. (*with* Petrov, N. I.; Sisakyan, I. N.) Correlated coherent states in problems of wave propagation in quadratic media with absorption or amplification. (Russian) (*see* **89d:81002**)
Kryszeń, A. *see* **Horowski, M.; et al., 89e:58055**
Le Blanc, Richard *see* **Rowe, D. J.; et al., 89i:22028**
Lee, Ching Tsung General solution to the spherical Raman-Nath equation. **89a:81038**
Man'ko, V. I. *see* **Dodonov, V. V., 89i:81044**
Mann, A. (*with* Revzen, M.) Thermal coherent states. **89j:81202**
Misrahi, S. S. *see* **Otero, D.; et al., 89f:82012**
Mlodinow, Leonard D. *see* **Hillery, Mark, 89i:81160**
Mølmer, Klaus (*with* Słowikowski, Wojtek) A new Hilbert space approach to the multimode squeezing of light. **89i:81161**
Mukunda, N. *see* **Simon, Rajiah; et al., 89e:81039**
Odzijewicz, A. *see* **Horowski, M.; et al., 89e:58055**
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Plastino, A. *see* **Otero, D.; et al., 89f:82012**
Prorok, Dariusz *see* **Garbaczewski, Piotr, 89e:81032**
Proto, A. N. *see* **Otero, D.; et al., 89f:82012**
Rakhmanov, M. A. *see* **Kallosh, R., 89i:81116**
Ramjit, Ursula A. T. *see* **Abdalla, M. Sebawe, 89k:81208**
Ren, Yong *see* **Fan, Hong Yi, 89h:81055**

Revzen, M. *see* **Mann, A., 89j:81202**

Riordan, Frank A shooting approximation to wavefunctions with harmonic amplitude. **89a:81019**

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Singh, Tejinder Pal *see* **Padmanabhan, T., 89j:81211**

Sisakyan, I. N. *see* **Krivoshlykov, S. G.; et al., (89d:81002)**

Słowikowski, Wojtek *see* **Mølmer, Klaus, 89i:81161**

Sudarshan, E. C. G. *see* **Simon, Rajiah; et al., 89e:81039**

Townsend, P. K. *see* **Henty, J. C.; et al., 89h:81051**

Truax, D. Rodney *see* **Fatyga, B. W.; et al., 89j:22040**

Van Leuven, P. *see* **Broeckhove, J.; et al., 89f:81260**

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Xu, Cheng Coherent states of electromagnetic fields and the principle of superposition. (Chinese. English summary) **89j:81303**

Zhang, Wei Min Microscopic study of fermionic collective motion. I. Functional representation of collective motion. **89e:81183**

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Balachandran, A. P. *see* **Atre, M. V.; et al., 89a:81049**

Cortois, J. *see* **Zinoun, A., 89h:81090**

Englefield, M. J. Superalgebras and the supersymmetric harmonic oscillator. **89k:81063**

Frescura, F. A. M. (*with* Hiley, B. J.) Some spinor implications unfolded. (*see* **89m:81006**)

Frydryszak, A. (*with* Jakóbczyk, L.) Generalized Gel′fand-Naimark-Segal construction for supersymmetric quantum mechanics. **89m:81081**

Govindarajan, T. R. *see* **Atre, M. V.; et al., 89a:81049**

Henneaux, M. (*with* Teitelboim, Claudio) *p*-form electrodynamics. **89b:81101**

Hiley, B. J. *see* **Frescura, F. A. M., (89m:81006)**

Jakóbczyk, L. *see* **Frydryszak, A., 89m:81081**

Kudryashov, V. V. Spectral projectors of angular momentum in the representation of a phase space. (Russian. English summary) **89h:81089**

Lukierski, J. (*with* Nowicki, Anatol) General superspaces from supertwistors. **89j:81084**

Lusanna, Luca Multitemporal Newtonian mechanics and its quantization. **89c:81064**

Montorsi, Arianna (*with* Rasetti, Mario; Solomon, A. I.) Dynamical superalgebra and supersymmetry for a many-fermion system. **89a:81050**

Nakazawa, Kazo The quantum mechanical Brownian motion. **89m:81082**

Nowicki, Anatol Strange superalgebras and description of nonrelativistic spin. **89c:81065**

— *see also* **Lukierski, J., 89j:81084**

Rasetti, Mario *see* **Montorsi, Arianna; et al., 89a:81050**

Solomon, A. I. *see* **Montorsi, Arianna; et al., 89a:81050**

Teitelboim, Claudio *see* **Henneaux, M., 89b:81101**

Zinoun, A. (*with* Cortois, J.) Algebra of operators for a system of composite and elementary particles. **89h:81090**

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Albanese, C. (*with* Fröhlich, Jürg) Periodic solutions of some infinite-dimensional Hamiltonian systems associated with nonlinear partial differential equations. I. **89i:35114**

Bengtsson, Anders K. H. BRST approach to interacting higher-spin gauge fields. **89d:81058**

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Fröhlich, Jürg *see* **Albanese, C., 89i:35114**

Guarneri, I. *see* **Casati, G.; et al., (89k:82001)**

Jordan, Thomas F. Direct calculation of the Berry phase for spins and helicities. **89d:81041**

Jørgensen, Palle E. T. ★ Operators and representation theory. **89e:47001**

(Kaganov, M. I.) *see* **Peierls, Rudolf, 89i:81002**

(Kaganova, I. M.) *see* **Peierls, Rudolf, 89i:81002**

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Meyer, Yves Les ondelettes. [Wavelets] **89e:81084**

Ne'eman, Yuval Proposed geometrisations for unitarity-imposing superalgebras of the field/ghost systems. (*see* **89b:81007**)

Parthasarathy, Kalyanapuram Rangachari Some additional remarks on Fock space stochastic calculus. **89g:81018**

Peierls, Rudolf ★ Сюрпризы в теоретической физике. (Russian) [Surprises in theoretical physics] **89i:81002**

Perotti, L. *see* **Casati, G.; et al., (89k:82001)**

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Shchetochkin, V. N. *see* **Efremov, V. N., 89f:81026**

Simon, Rajiah (*with* Venkata Satyanarayana, M.) Logarithmic states of the radiation field. **89d:81137**

Vasil′ev, M. A. Free massless fermionic fields of arbitrary spin in *d*-dimensional anti-de Sitter space. **89d:81080**

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81Exx Quantum field theory

(de Kerf, E. A.) *see* **Proceedings: Seminar on Mathematical Structures in Field Theories, 89m:81083**

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Items with secondary classifications in 81Exx

(Batalin, I. A.) *see* **Quantum field theory and quantum statistics, 89b:81007** *and* **89b:81008**

(Feldman, Joel S.) *see* **Mathematical quantum field theory and related topics, 89g:81002**

(Fradkin, E. S.) *see* **Quantum field theory and quantum statistics, 89b:81007** *and* **89b:81008**

Green, Michael B. (*with* Schwarz, John H.; Witten, Edward) ★ Superstring theory. Vol. 1. **89f:81001a**

— (*with* Schwarz, John H.; Witten, Edward) ★ Superstring theory. Vol. 2. **89f:81001b**

(Isham, C. J.) *see* **Quantum field theory and quantum statistics, 89b:81007** *and* **89b:81008**

(Kawarabayashi, K.) *see* **Wandering in the fields, 89m:81002**

(Khanna, F. C.) *see* **Institute: Theoretical Physics, 89h:81005** *and* **89h:81006**

(Kunstatter, G.) *see* **Institute: Theoretical Physics, 89h:81005** *and* **89h:81006**

(Lee, Hoong Chien) *see* **Institute: Theoretical Physics, 89h:81005** *and* **89h:81006**

(Nishijima, Kazuhiko) *see* **Wandering in the fields, 89m:81002**

(Rosen, Lon M.) *see* **Mathematical quantum field theory and related topics, 89g:81002**

Schwarz, John H. *see* **Green, Michael B.; et al., 89f:81001a** *and* **89f:81001b**

(Ukawa, A.) *see* **Wandering in the fields, 89m:81002**

(Umezawa, H.) *see* **Institute: Theoretical Physics, 89h:81005** *and* **89h:81006**

(Vilkoviskii, G. A.) *see* **Quantum field theory and quantum statistics, 89b:81007** *and* **89b:81008**

Witten, Edward *see* **Green, Michael B.; et al., 89f:81001a** *and* **89f:81001b**

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Mathematical Quantum Field Theory and Related Topics ★ Mathematical quantum field theory and related topics. **89g:81002**

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81E05 Axiomatic quantum field theory; operator algebras

Bannier, Ulrich On generally covariant quantum field theory and generalized causal and dynamical structures. **89j:81085**

Battle, Guy A block spin construction of ondelettes. II. The QFT connection. **89h:81091**

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Lesniewski, Andrzej *see* **Jaffe, Arthur; et al., 89m:81085**

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Rehren, K.-H. (*with* Schroer, Bert) Exchange algebra on the light-cone and order/disorder $2n$-point functions in the Ising field theory. **89a:81051**

Schroer, Bert *see* **Rehren, K.-H., 89a:81051**

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81E08 Constructive quantum field theory

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(Gomes, Marcelo O. C.) *see* **Banerjee, R. S., 89k:81065** *and* **Zhou, Huan Qiang, 89k:81066**

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Hattori, Tetsuya *see* **Hara, Takashi; et al., 89e:81082**

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Rivasseau, V. *see* **Feldman, Joel S.; et al., 89a:81052; David, François Louis; et al., 89e:81080** *and* **Feldman, Joel S.; et al., 89e:81081**

Rothe, H. J. *see* **Linhares, C. A.; et al., 89a:81054**

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Sénéor, Roland *see* **Feldman, Joel S.; et al., 89a:81052** *and* **89e:81081**

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Smirnov, F. A. *see* **Kirillov, A. N., 89f:81091**

Sokolov, M. A. *see* **Kulish, P. P., 89h:81094**

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Talalov, S. V. *see* **Pogrebkov, A. K., 89c:81068**

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Tarrach, R. *see* **Paban, Sònia, 89g:81057**

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81E13 Yang-Mills and other gauge theories (classical and quantum aspects)

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Burdet, G. (*with* Duval, Christian; Perrin, Martine-Jacqueline) A classical analogue of Yukawa coupling: presymplectic formalism. **89c:81072**
Buscher, T. H. (*with* Lindström, U.; Roček, M.) New supersymmetric σ-models with Wess-Zumino terms. **89b:81118**
Cahen, Michel (*with* Gutt, S.; Kozameh, C.; Newman, E. T.) Yang-Mills equations and solvable groups. II. **89f:81094**
Carena, Marcela (*with* Wagner, Carlos; Masperi, Luis) Nonabelian theory for massive vector bosons and canonical quantization. **89a:81065**
Caticha, Ariel Dual potentials in nonabelian gauge theories. **89d:81059**
Chakrabarti, Amitabha Spinors in periodic self-dual gauge field backgrounds. **89h:81100**
— Propagators in periodic gauge field backgrounds. **89k:81071**
Chakravarty, Sarbarish *see* **Mason, L. J.; et al., 89d:81064**
Chamseddine, A. H. (*with* Derendinger, J.-P.) Twisted superstrings in four dimensions. **89e:81087**
Chen, Wei (*with* Guo, Han Ying; Hu, Hong Liang; Yu, Yue) Symmetry, cohomology and string field theories—a Fock space formalism. **89k:81072**
Chen, Yi-Ying The nonlinear desingularization phenomenon in the abelian Higgs model for isotropic solutions. **89k:81073**
Cheng, T. P. (*with* Li, Ling-Fong) Resource letter: GI-1 gauge invariance. **89e:81088**
Chervon, S. V. *see* **Ivanov, G. G., 89i:81069**
Cho, B. H. *see* **Kim, W. T.; et al., 89j:81101**
Chruściel, Piotr T. (*with* Kondracki, W.) Some global charges in classical Yang-Mills theory. **89b:81119**
Chung, Ki Soo (*with* Han, Chang Woo; Kim, Jae Kwan; Koh, I. G.) Becchi-Rouet-Stora structure and gauge-invariant actions for higher-spin fields. **89j:81096**
Clarizia, A. (*with* Pezzella, F.) BRST invariant mixed string vertex for the bosonic string. **89j:81097**
Clark, T. E. (*with* Lee, C.-H.; Love, S. T.) Anti-symmetric tensor gauge theories. **89i:81067**
Collina, R. *see* **Blasi, Alberto, 89a:81061**
Comay, E. Comments on the charge-monopole canonical formalism. **89f:81095**
Crnković, Čedomir (*with* Witten, Edward) Covariant description of canonical formalism in geometrical theories. (*see* **89b:83007**)
— Symplectic geometry and (super-) Poincaré algebra in geometrical theories. **89b:81120**
Curci, Giuseppe (*with* Paffuti, Giampiero; Rossi, Paolo[1]) The hidden SO(4) symmetry of general SU(2) Thirring models. **89k:81074**
Cvetič, Gorazd (*with* Yan, Tung-Mow) Charge exchange scattering of charged gauge bosons by 't Hooft-Polyakov monopole. **89b:81121**
Dai, Jian Hui Yang-Mills group constraints in anomaly free theories compatible with Green-Schwarz mechanism. (Chinese summary) **89m:81090**
— *see also* **Zha, Chao Zheng, 89j:81118**
Davies, A. T. (*with* McLachlan, A.) Gauge group breaking by Wilson loops. **89a:81066**
Davis, A. C. (*with* Mayger, E. M.) Nonperturbative effects in the CP^N model. **89m:81091**
— (*with* Gracey, J. A.; Macfarlane, A. J.) Nonperturbative effects in supersymmetric sigma models. **89a:81067**
Deguchi, Shinichi A nonlinear realisation of local internal supersymmetry. **89k:81075**
Delbourgo, R. (*with* Jarvis, P. D.; Zhang, R. B.; Thompson, George) Gauge fixing of stringlike models via $\mathrm{OSp}(D/2)$. **89a:81068**
— (*with* Zhang, R. B.) Fermionic dimensions and Kaluza-Klein theory. **89b:81122**
Derendinger, J.-P. *see* **Chamseddine, A. H., 89e:81087**
Deriglazov, A. A. *see* **Bratchikov, A. V.; et al., 89g:81044**
Deser, S. *see* **Aragone, C.; et al., 89b:81113**
Destri, C. (*with* de Vega, H. J.) On the connection between the principal chiral model and the multiflavour chiral Gross-Neveu model. **89b:81123**
DeWitt, Bryce The effective action. **89h:81101**
Dhar, Avinash Massive superparticle in $(2+1)$ dimensions and Polyakov's Fermi-Bose transmutations. **89j:81098**
Dick, R. Locally symmetric Riemannian spaces and solutions of Yang-Mills equations. **89a:81069**
Dixon, Lance J. (*with* Kaplunovsky, Vadim S.; Vafa, Cumrun) On four-dimensional gauge theories from type II superstrings. **89g:81045**
Doktorov, E. V. "Hidden" symmetry of the self-duality equations for static axially symmetric gauge fields. (Russian) (*see* **89d:81001**)
Dorn, H. (*with* Otto, H.-J.) On the energy-momentum tensor in nonlinear σ-models with torsion. **89b:81124**
Duval, Christian *see* **Burdet, G.; et al., 89c:81072**
Ellwanger, U. Four-dimensional supersymmetric sigma models. **89k:81076**
Esteban, M. J. (*with* Lions, Pierre-Louis) Skyrmions and symmetry. **89m:81092**
Evans, J. M. Supersymmetric Yang-Mills theories and division algebras. **89f:81096**
Evens, Dan (*with* Kunstatter, G.) Hamiltonian analysis of topologically massive Yang-Mills theory. **89h:81102**
Everett, Allen E. (*with* Aryal, Mukunda) Comment on: "Monopoles on strings" [Phys. Rev. Lett. **55** (1985), no. 22, 2398–2400; MR 87a:81092] by M. Hindmarsh and T. W. B. Kibble. **89a:81070**
Fabbrichesi, Marco E. Degenerate gauge conditions, generalized Gribov ambiguity and BRST symmetry. **89c:81073**
Faddeev, L. D. *see* **Alekseev, A. Yu.; et al., 89g:81041**
Falceto, Fernando *see* **Asorey, Manuel, 89e:81086**
Federbush, Paul A phase cell approach to Yang-Mills theory. VI. Nonabelian lattice-continuum duality. (French summary) **89h:81103**
— On the quantum Yang-Mills field theory. (*see* **89g:81002**)
Felder, G. (*with* Gawędzki, K.; Kupiainen, A.) Spectra of Wess-Zumino-Witten models with arbitrary simple groups. **89k:81077**
Ferrara, S. *see* **Aragone, C.; et al., 89b:81113**
Ferrer, È. *see* **de la Incera, V.; et al., (89d:81001)**
Filippov, A. T. ★ Gauge theories of particles, string and corresponding fields. **89b:81125**
— Gauge formulation of theories of relativistic particles and strings. **89h:81104**
Fisch, Jean (*with* Henneaux, M.; Stasheff, James; Teitelboim, Claudio) Existence, uniqueness and cohomology of the classical BRST charge with ghosts of ghosts. **89m:81093**
Fisher, A. W. Consistency condition calculations of supersymmetry anomalies. **89a:81071**
Fitzsimmons, Sean (*with* McGlinn, W. D.) Properties of some self-dual monopoles. **89a:81072**
Floratos, E. G. F. (*with* Iliopoulos, J.) A note on the classical symmetries of the closed bosonic membranes. **89c:81074**
— (*with* Iliopoulos, J.; Tiktopoulos, G.) A note on $SU(\infty)$ classical Yang-Mills theories. **89m:81094**
Flume, R. The $d = 2$ conformally invariant SU(2) σ-model with Wess-Zumino term and related critical theories. (*see* **89g:81058**)
Fomin, M. B. *see* **Kozhevnikov, I. R.; et al., 89f:81100**
Forger, M. *see* **Abdalla, E.; et al., 89h:81096**
Forte, Stefano Spectral asymmetry and vacuum charge in three-dimensional closed and open space. **89f:81097**
Fortini, Pierluigi *see* **Boccaletti, D., 89a:81062**
Fradkin, E. S. (*with* Shvartsman, Sh. M.) The continual approach in the Yang-Mills theory in the external nonabelian field. **89m:81095**
— *see also* **Pal′chik, M. Ya., (89d:81001)**
Fradkina, T. E. Lagrange measure in gauge theories of general form. (Russian) (*see* **89d:81001**)
Fröhlich, Jürg Statistics and monodromy in two- and three-dimensional quantum-field theory. **89k:81078**
Frolov, S. A. *see* **Slavnov, A. A., 89h:81122**
Fujikawa, Kazuo Path integral, BRS symmetry, and string and membrane theories. **89k:81079**
Gaigg, P. *see* **Skarke, H.,** (Not in MR)
Gal′perin, A. S. (*with* Ivanov, Evgeniĭ Alekseevich[2]; Ogievetskiĭ, V. I.; Sokatchev, E. S.) Conformal invariance in harmonic superspace. **89m:81096**
— (*with* Ivanov, Evgeniĭ Alekseevich[2]; Ogievetskiĭ, V. I.) Superspaces for $N = 3$ supersymmetry. **89m:81097**
— *see also* **Bagger, J. A.; et al., 89h:81097**
Gandhi, S. K. (*with* Stelle, K. S.) Vanishing of the supermembrane partition function. **89m:81098**
Gawędzki, K. *see* **Felder, G.; et al., 89k:81077**
Gegenberg, J. (*with* Kelly, P. F.; Mann, R. B.; McArthur, Randall Douglas; Vincent, D. E.) Reinterpretation of the nonlinear sigma model with torsion. **89j:81099**
Geng, Chaoqiang *see* **Okubo, Susumu; et al., 89d:81067**
Giroux, Ghislain (*with* Saint-Aubin, Yvan) Soliton solutions to various σ models with a Wess-Zumino term. **89a:81073**
Gitman, D. M. (*with* Tyutin, I. V.) The structure of gauge theories in the Lagrangian and Hamiltonian formalisms. **89f:81098**
Gracey, J. A. *see* **Davis, A. C.; et al., 89a:81067**
Grisaru, Marcus T. *see* **de Alwis, S. P.; et al., 89g:81042** *and* **de Wit, B., 89k:81083**
Guo, Han Ying *see* **Chen, Wei; et al., 89k:81072**
Gutt, S. *see* **Cahen, Michel; et al., 89f:81094**
Haba, Z. Linearizable quantum supersymmetric σ models. **89i:81068**
Hamada, K.-J. (*with* Takao, Masaru) Supersymmetric Yang-Mills theory in two-dimensional superspace and super Kac-Moody algebra. **89h:81105**
Han, Chang Woo *see* **Chung, Ki Soo; et al., 89j:81096**
Harada, Koji (*with* Tsutsui, Izumi) A consistent Gauss law in anomalous gauge theories. **89b:81126**
— (*with* Tsutsui, Izumi) Revealing the gauge freedom in the path-integral formalism. **89e:81089**
— (*with* Shizuya, Ken-ichi) Supersymmetric axial anomalies and the Wess-Zumino action. **89e:81090**
Henneaux, M. *see* **Fisch, Jean; et al., 89m:81093**
Hey, Anthony J. G. (*with* Merlin, John H.; Ricketts, Martin William; Vaughn, Michael T.; Williams, David C.) Topological solutions in gauge theory and their computer graphic representation. (Not in MR)
Higuchi, Atsushi (*with* Parker, Leonard) Aspects of QED and nonabelian gauge theories in $S^1 \times \mathbf{R}^3$ and $S^1 \times \mathbf{R}^4$ spacetimes. **89e:81091**
(Hindmarsh, M.) *see* **Everett, Allen E., 89a:81070**
Hloušek, Zvonimir (*with* Shertzer, Janine) On the stability of the Skyrme-model soliton with unit Hopf charge. **89d:81060**
van Holten, J. W. Rigid symmetries and BRST-invariance in gauge theories. **89a:81074**
Hong Tuan, R. *see* **Aoyama, S., 89b:81112**
Hosono, Shinobu Berry's phase, Schwinger term and explicit calculations in two dimensions. **89j:81100**
Hou, Bo Yu (*with* Zhang, Yao Zhong) Some remarks on the extension of loop groups. **89h:81106**
Howe, P. S. Two-dimensional nonlinear σ-models. **89b:81127**
— (*with* Umerski, A.) Anomaly multiplets in six and ten dimensions. **89b:81128**
Hu, Hong Liang *see* **Chen, Wei; et al., 89k:81072**
Hull, C. M. Sigma-model conformal anomalies and string effective actions. (*see* **89a:81005**)
Iida, Shinji *see* **Kuratsuji, Hiroshi, 89b:81134**
Iliopoulos, J. *see* **Floratos, E. G. F., 89c:81074** *and* **89m:81094**
de la Incera, V. (*with* Ferrer, È.; Shabad, A. E.) The Bose-condensation problem in gauge theory. (Russian) (*see* **89d:81001**)
Ivanov, Evgeniĭ Alekseevich[2] *see* **Bagger, J. A.; et al., 89h:81097; Gal′perin, A. S.; et al., 89m:81096** *and* **89m:81097**
Ivanov, G. G. (*with* Chervon, S. V.) Exact solutions in the SO(3)-invariant nonlinear sigma-model that are connected with isometric and homothetic symmetries. (Russian) **89i:81069**
Jacques, Michel *see* **Arsenault, Guy; et al., 89b:81114** *and* **Abdalla, E.; et al., 89h:81096**

Jarvis, P. D. The CSDR approach to covariant quantisation of vielbein gauge fields. **89h:81107**
— *see also* **Delbourgo, R.; et al., 89a:81068**
Jin, An Jun (*with* Xiong, Chuan Sheng; Zhu, Zhong Yuan) Discussions on the general solutions to the Wess-Zumino conditions in higher dimensions. (Not in MR)
Johnson, P. W. *see* **Atkinson, D.; et al., 89a:81058**
Joshi, D. C. *see* **Benjwal, M. P.; et al., 89b:81117** *and* **Kumar, Sunil; et al., 89b:81133**
Julve, J. *see* **Barbero, F.; et al., 89m:81089**
Kaiser, Ralf Joachim Supersymmetric gauge anomalies in 2 and 4 dimensions from generalized descent-equations. **89f:81099**
Kao, W. F. (*with* Park, Q-Han; Schnitzer, Howard J.) Low energy effective action, to two-loop order, for strings on a group manifold, from compactification of closed Bose strings. **89b:81129**
Kaplunovsky, Vadim S. *see* **Dixon, Lance J.; et al., 89g:81045**
Karabali, Dimitra (*with* Park, Q-Han; Schnitzer, Howard J.) Nonabelian Bose-Fermi equivalence in the background of Kaluza-Klein scalars and compactifications of closed bosonic strings. **89k:81080**
Karanikas, A. I. (*with* Ktorides, C. N.) An exact solution of a regularized Makeenko-Migdal equation in two dimensions for small Wilson loops. **89i:81070**
Karkowski, J. Supersymmetric electric and magnetic monopoles. **89b:81130**
Katkevičius, Osvaldas *see* **Vanagas, Vladislovas, 89f:81112**
Kelly, P. F. *see* **Gegenberg, J.; et al., 89j:81099**
Ketov, S. V. (*with* Tyutin, I. V.) Self-action for $N = 2$ multiplets in $d = 4$ and the ultraviolet finiteness of two-dimensional $N = 4$ σ-models. (Russian) (*see* **89d:81001**)
— (*with* Lokhvitskiĭ, B. B.) Some generalisations of $N = 2$ Yang-Mills matter couplings. **89c:81075**
— (*with* Tyutin, I. V.) A new nonlinear σ-model with $N = 4$ extended supersymmetry. (Russian) **89b:81131**
Khare, Avinash *see* **Kumar, C. Nagraj, 89b:81132**
(Kibble, T. W. B.) *see* **Everett, Allen E., 89a:81070**
Kim, Jae Kwan *see* **Chung, Ki Soo; et al., 89j:81096**
Kim, W. T. (*with* Park, D. K.; Cho, B. H.) BRS analysis of the nonabelian chiral Schwinger model. **89j:81101**
Kiss-Tóth, Tibor Exact solutions of nonlinear SU(N) principal σ-models. **89j:81102**
Kleinert, H. (*with* Miller, Wolfram) Renormalization of charge due to magnetic monopoles in the Villain form of U(1) lattice gauge theory. **89h:81108**
Klimek, S. (*with* Kondracki, W.) A construction of two-dimensional quantum chromodynamics. **89g:81046**
Koh, I. G. *see* **Chung, Ki Soo; et al., 89j:81096**
Kondracki, W. *see* **Chruściel, Piotr T., 89b:81119** *and* **Klimek, S., 89g:81046**
Konishi, Kenichi *see* **Amati, D.; et al., 89j:81094**
Korotkov, A. N. (*with* Tokarev, V. F.) Instanton effects in two-dimensional scalar electrodynamics. (Russian. English summary) **89c:81076**
Kozameh, C. *see* **Cahen, Michel; et al., 89f:81094**
Kozhevnikov, I. R. (*with* Rybakov, Yu. P.; Fomin, M. B.) The structure of topological solitons in the Skyrme model. **89f:81100**
Kraemmer, Ulrike *see* **Rebhan, Anton, 89b:81141**
Krasnikov, N. V. Breaking of supersymmetry in superstring theories. **89e:81092**
Ktorides, C. N. *see* **Karanikas, A. I., 89i:81070**
Kubo, Jisuke Nonabelian gauge bosons in the compactified bosonic membrane theory. **89i:81071**
Kubyshin, Yu. A. *see* **Volobuev, I. P., (89d:81001)**
Kumar, C. Nagraj (*with* Khare, Avinash) Q-ball solutions in $1 + 1$ dimensions for a class of SO(2)-invariant potentials. **89b:81132**
Kumar, Sunil (*with* Prasad, Rakesh; Benjwal, M. P.; Joshi, D. C.) Classical Yang-Mills theory in presence of extended electric and magnetic sources. **89b:81133**
— *see also* **Benjwal, M. P.; et al., 89b:81117**
Kunstatter, G. *see* **Evens, Dan, 89h:81102**
Kupiainen, A. *see* **Felder, G.; et al., 89k:81077**
Kuratsuji, Hiroshi (*with* Iida, Shinji) Deformation of symplectic structure and anomalous commutators in field theories. **89b:81134**
Labastida, J. M. F. (*with* Pernici, M.) Kähler-Dirac ghosts for self-dual fields. **89e:81093**
Lambert, Dominique (*with* Tombal, Ph.) Hyperbolic complex numbers and nonlinear sigma models. **89c:81077**
— (*with* Piette, B.) Solutions of Minkowskian σ models on hyperbolic complex Grassmann manifolds. **89h:81109**
— (*with* Rembieliński, J.) From Gödel quaternions to nonlinear sigma models. **89j:81103**
Lancaster, David The Weyl anomaly for singular surfaces. **89g:81047**
Landi, G. (*with* Marmo, G.) Algebraic reduction of the 't Hooft-Polyakov monopole to the Dirac monopole. **89h:81110**
Langouche, F. (*with* Leutwyler, H.) Anomalies generated by extrinsic curvature. **89b:81135**
Lazzizzera, I. A Hamiltonian formulation of Yang-Mills theories in the pure temporal gauge. **89h:81111**
Lee, C.-H. *see* **Clark, T. E.; et al., 89i:81067**
Lerche, W. *see* **Buchmüller, W., 89a:81064**
Leutwyler, H. *see* **Langouche, F., 89b:81135**
Lewandowski, Jerzy Nonabelian path integrals and generalised quantum mechanics in the external field of the 't Hooft-Polyakov monopole. **89f:81101**
Leznov, A. N. On the equivalence of four-dimensional self-duality equations to a continuous analogue of the problem of a principal chiral field. (Russian. English summary) **89h:81112**
Lhallabi, T. (*with* Saidi, E. H.) Extended BRS and anti-BRS symmetries in $N = 2$ harmonic superspace. **89h:81113**
— Anomalies of BRS and anti-BRS Ward-identities in $N = 1$ supersymmetric theory. **89j:81104**
— $N = 2$ supersymmetric Ward identities on the harmonic superspace. **89d:81061**
— (*with* Saidi, E. H.) Two-dimensional untwisted $(4, 4)$, twisted $(4, \overline{4})$ and chiral supersymmetric nonlinear σ-models. **89h:81114**
Li, Ling-Fong *see* **Cheng, T. P., 89e:81088**
Li, Wei[7] On the remark of the existence of Virasoro symmetry for the nonlinear σ model. **89j:81105**
Lima Santos, A. *see* **Abdalla, E., 89a:81056** *and* **89f:81092**
Lindström, U. *see* **Buscher, T. H.; et al., 89b:81118**
Lions, Pierre-Louis *see* **Esteban, M. J., 89m:81092**
Lokhvitskiĭ, B. B. *see* **Ketov, S. V., 89c:81075**
Love, S. T. *see* **Clark, T. E.; et al., 89i:81067**
Lucchesi, Claudio (*with* Piguet, O.; Sibold, K.) Necessary and sufficient conditions for all order vanishing β-functions in supersymmetric Yang-Mills theories. **89d:81062a**
— (*with* Piguet, O.; Sibold, K.) Erratum: "Necessary and sufficient conditions for all order vanishing β-functions in supersymmetric Yang-Mills theories". **89d:81062b**
Ma, Zhong Qi (*with* Xu, Bo Wei) The embedding SO(4) pseudoparticle solutions to the Yang-Mills equations. **89g:81048**
Macfarlane, A. J. *see* **Davis, A. C.; et al., 89a:81067**
MacKenzie, R. Topological structures on domain walls. **89i:81072**
Madajczyk, J. *see* **Alekseev, A. Yu.; et al., 89g:81041**
Maillet, Jean-Michel *see* **Avan, J.; et al., 89g:81043**
Malec, Edward On classical solutions of nonabelian gauge theories. **89d:81063**
Mann, R. B. *see* **Gegenberg, J.; et al., 89j:81099**
Mansouri, Freydoon (*with* Wu, Xi Zeng) Free fermion and parafermion theories in two dimensions. **89g:81049**
Manton, N. S. Connections on discrete fibre bundles. **89a:81075**
Marcus, Neil (*with* Sagnotti, Augusto) BRST quantization and BRST cohomology. (*see* **89m:81001**)
Marmo, G. *see* **Landi, G., 89h:81110**
Marnelius, R. Errata: "Half-integer ghost states and simple BRST quantization" [Nuclear Phys. B **294** (1987), no. 3, 671–684]. **89h:81115**
Marshak, R. E. *see* **Okubo, Susumu; et al., 89d:81067**
Martinez, José Chan Zero modes for a nonabelian vortex-fermion system. **89h:81116**
Mason, L. J. (*with* Chakravarty, Sarbarish; Newman, E. T.) Bäcklund transformations for the anti-self-dual Yang-Mills equations. **89d:81064**
Masperi, Luis *see* **Carena, Marcela; et al., 89a:81065**
Matinyan, S. G. (*with* Prokhorenko, E. B.; Savvidi, G. K.) Nonintegrability of time-dependent spherically symmetric Yang-Mills equations. **89c:81078**
Matsuno, Yoshimasa New exact solutions of the Yang-Mills equation. **89b:81136**
Mayger, E. M. *see* **Davis, A. C., 89m:81091**
McArthur, Randall Douglas *see* **Gegenberg, J.; et al., 89j:81099**
McGlinn, W. D. *see* **Fitzsimmons, Sean, 89a:81072**
McLachlan, A. *see* **Davies, A. T., 89a:81066**
Merlin, John H. *see* **Hey, Anthony J. G.; et al.,** (Not in MR)
Meurice, Y. *see* **Amati, D.; et al., 89j:81094**
Mezincescu, Luca *see* **de Alwis, S. P.; et al., 89g:81042**
Miller, Wolfram *see* **Kleinert, H., 89h:81108**
Minowa, H. *see* **Nakamura, Masayoshi; et al., 89i:81073**
Mishima, Nobuhiko *see* **Nakamura, Masayoshi; et al., 89i:81073**
Mitra, Parthasarathi (*with* Rajaraman, R.) Poincaré invariance of anomalous gauge theories. **89b:81137**
— Errata: "Algebraic consistency in anomalous gauge theories" [Phys. Rev. Lett. **60** (1988), no. 4, 265–266; MR 88k:81130]. **89h:81117**
Miyachi, Yoshihiko A class of time-dependent solutions of the SU(2) gauge theory with spherical symmetry. **89j:81106**
Miyake, Shogo (*with* Shizuya, Ken-ichi) Confinement and a dual structure in the generalized chiral Schwinger model. **89d:81065**
Montani, H. (*with* Schaposnik, Fidel A.) Chiral models and stochastic quantization. **89b:81138**
— Nonabelian gauge theories with Weyl fermions: the stochastic quantization approach. **89k:81081**
Montgomery, R. Correction to the low-energy scattering of monopoles. **89h:81118**
Morozov, A. Yu. Anomalies in gauge theories. **89h:81119**
Münster, G. (*with* Reuter, M.) A statistical interpretation of chiral and conformal anomalies. **89d:81066**
Nakamura, Masayoshi (*with* Minowa, H.; Mishima, Nobuhiko) Quantization of the CP_2^{n-1} model. (Italian summary) **89i:81073**
Nakanishi, Noboru Nishijima's work on gauge theories. (*see* **89m:81002**)
Neuberger, Herbert Soft pions in large boxes. **89e:81094**
Newman, E. T. *see* **Mason, L. J.; et al., 89d:81064** *and* **Cahen, Michel; et al., 89f:81094**
Nguyen Ai Viet Structure deformation by gauge fields and higher order cocycles. **89e:81095**
Nijhoff, Frank W. *see* **Avan, J.; et al., 89g:81043**
(Nishijima, Kazuhiko) *see* **Nakanishi, Noboru, (89m:81002)**
Nishikawa, Tadashi (*with* Tsutsui, Izumi) Consistent and covariant commutator anomalies in gauge theories. **89j:81107**
Nishioka, Michio Note on the Lie-isotopic lifting of gauge theory. **89f:81102**
Nissimov, E. (*with* Pacheva, S.; Solomon, S.) Covariant unconstrained superfield action for the linearized $D = 10$ super-Yang-Mills theory. **89f:81103**
Novikov, V. A. Supersymmetric instanton calculus (gauge theories with matter fields in an arbitrary group). **89f:81104**
O'Brien, G. M. (*with* Tchrakian, D. H.) Spin-connection generalized Yang-Mills fields on double-dual generalized Einstein-Cartan backgrounds. **89j:81108**
Ogievetskiĭ, V. I. *see* **Bagger, J. A.; et al., 89h:81097; Gal′perin, A. S.; et al., 89m:81096** *and* **89m:81097**
Oh, C. H. (*with* Parwani, Rajesh R.) Bifurcation in the Yang-Mills field equations with static sources. **89f:81105**
Ohta, Nobuyoshi *see* **de Alwis, S. P., 89a:81057**
Okada, Yasuhiro (*with* Ubriaco, Marcelo R.) Renormalization of O(N) nonlinear σ model on a p-adic field. **89i:81074**
Okubo, Susumu (*with* Geng, Chaoqiang; Marshak, R. E.; Zhao, Zhi Yong) Conditions for absence of global SU(2) anomaly for four-dimensional gauge groups. **89d:81067**
— *see also* **Zhang, Huazhong; et al., 89d:81071**
Oliensis, John (*with* Suranyi, Peter) The phase structure of the noncompact abelian Higgs model. **89e:81096**

Olivier, Dominique (*with* Valent, G.) Methods in hyper-Kähler σ models building. (*see* **89g:81058**)
Otto, H.-J. *see* **Dorn, H., 89b:81124**
Ovid'ko, I. A. Topologically nontrivial loop monopoles. **89b:81139**
Pacheva, S. *see* **Nissimov, E.; et al., 89f:81103**
Paffuti, Giampiero *see* **Curci, Giuseppe; et al., 89k:81074**
Pak, D. G. *see* **Zupnik, B. M., 89j:81120**
Pal'chik, M. Ya. Conformal invariance in quantum nonabelian gauge field theory. **89g:81050**
— (*with* Fradkin, E. S.) Conformal invariance in two-dimensional field theory. (Russian) (*see* **89d:81001**)
— Conformal transformations of quantum gauge fields. (Russian) (*see* **89d:81001**)
— Conformal transformations of quantum fields in gauge theories. **89f:81106**
Palumbo, F. Quantization of gauge theories on a torus. (Italian summary) **89a:81076**
Panigrahi, Prasanta K. (*with* Roy, Shibaji; Scherer, Wolfgang) Canonical quantization of the interacting CP^1 nonlinear σ model with the Chern-Simons term. **89j:81109**
Papadopoulos, Demetrios Soliton solutions for self-dual SU(2) gauge fields on Euclidean space obtained from a nondiagonal seed solution. **89d:81068**
Paranjape, M. B. Quantization of anomalous gauge theories: the chiral Schwinger model. **89j:81110**
Park, D. K. *see* **Kim, W. T.; et al., 89j:81101**
Park, Q-Han *see* **Kao, W. F.; et al., 89b:81129** *and* **Karabali, Dimitra; et al., 89k:81080**
Parker, Leonard *see* **Higuchi, Atsushi, 89e:81091**
Parthasarathy, Ragavachariar Quantisation in a nonlinear gauge and Feynman rules. **89j:81111**
— On Gribov ambiguity in finite temperature abelian gauge theory. **89g:81051**
Parwani, Rajesh R. *see* **Oh, C. H., 89f:81105**
Pasti, P. *see* **Bonora, L.; et al., 89f:81093**
Percacci, R. On the quantization of a theory with global gauge anomalies. **89h:81120**
— (*with* Rajaraman, R.) Gauss law commutator in the chirally gauged Wess-Zumino-Witten model. **89f:81107**
Pereira, J. G. *see* **Aldrovandi, R., 89i:81065**
Pernici, M. *see* **Labastida, J. M. F., 89e:81093**
Perrin, Martine-Jacqueline *see* **Burdet, G.; et al., 89c:81072**
Pezzella, F. *see* **Clarizia, A., 89j:81097**
Picken, R. F. Global anomalies and homotopy group cocycles. **89j:81112**
Piette, B. Some solutions of the U(N) sigma models. (*see* **89g:81001**)
— Explicit solutions of Grassmannian σ models. **89k:81082**
— *see also* **Lambert, Dominique, 89h:81109**
Piguet, O. *see* **Lucchesi, Claudio; et al., 89d:81062a** *and* **89d:81062b**
Polyakov, A. M. Fermi-Bose transmutations induced by gauge fields. **89e:81097**
Polychronakos, Alexios P. Topological origin of the angular momentum induced by the Chern-Simons form. **89b:81140**
Popović, D. S. *see* **Blagojević, M.; et al., 89j:81095**
Popowicz, Ziemowit The supersymmetric gauge field copies. **89e:81098**
Prasad, Rakesh *see* **Kumar, Sunil; et al., 89b:81133**
Prokhorenko, E. B. *see* **Matinyan, S. G.; et al., 89c:81078**
Pruisken, Adrianus M. M. Quasiparticles in the theory of the integral quantum Hall effect. II. Renormalization of the Hall conductance or instanton angle theta. **89h:81121**
Rajaraman, R. Solitary waves of the "2-dimensional ferromagnet". **89f:81108**
— *see also* **Mitra, Parthasarathi, 89b:81137** *and* **Percacci, R., 89f:81107**
Rajeev, S. G. Yang-Mills theory on a cylinder. **89i:81075**
Ramallo, A. V. Chiral Schwinger model with massive fermions. **89j:81113**
Ratra, Bharat (*with* Yaffe, Laurence G.) Spherically symmetric classical solutions in SU(2) gauge theory with a Higgs field. **89c:81079**
Rebhan, Anton (*with* Kraemmer, Ulrike) On the harmonic gauge in the quantization of strings. **89b:81141**
Rembieliński, J. *see* **Lambert, Dominique, 89j:81103**
Reuter, M. *see* **Münster, G., 89d:81066**
Ricketts, Martin William *see* **Hey, Anthony J. G.; et al.,** (Not in MR)
Rieger, B. *see* **Altevogt, P., 89b:81109**
Roček, M. *see* **Buscher, T. H.; et al., 89b:81118**
Rosenhaus, V. On parameter-invariant solutions of the Yang-Mills equation. **89j:81114**
— On symmetry of solutions of the Yang-Mills equation. **89f:81109**
Rossi, G. C. *see* **Amati, D.; et al., 89j:81094**
Rossi, Paolo[1] *see* **Curci, Giuseppe; et al., 89k:81074**
Roy, Shibaji *see* **Panigrahi, Prasanta K.; et al., 89j:81109**
Ruback, Peter Sigma model solitons and their moduli space metrics. **89f:81110**
Rudolph, Gerd Remarks on the problem of lifting spacetime symmetries. **89b:81142**
Rybakov, Yu. P. *see* **Kozhevnikov, I. R.; et al., 89f:81100**
Sabir, M. *see* **Ajithkumar, C. M., 89g:81040**
Sagnotti, Augusto *see* **Marcus, Neil,** (**89m:81001**)
Saidi, E. H. Twisted $d = 2$ (4, 4) supersymmetric nonlinear σ-models are specified by one hyper-Kähler potential. **89f:81111**
— *see also* **Lhallabi, T., 89h:81113** *and* **89h:81114**
Saint-Aubin, Yvan *see* **Giroux, Ghislain, 89a:81073** *and* **Arsenault, Guy;** et al., **89b:81114**
Samokhvalov, S. E. On the possibility of a group-theoretic description of external gauge fields. **89m:81099**
Savvidi, G. K. Gauge of light cone in theory of relativistic surfaces. **89i:81076**
— *see also* **Matinyan, S. G.; et al., 89c:81078**
Sazdović, B. *see* **Blagojević, M.; et al., 89j:81095**
Schaposnik, Fidel A. *see* **Montani, H., 89b:81138**
Schenk, A. *see* **Baacke, J., 89a:81059**
Scherer, Wolfgang *see* **Panigrahi, Prasanta K.; et al., 89j:81109**
Schnitzer, Howard J. *see* **Kao, W. F.; et al., 89b:81129** *and* **Karabali, Dimitra; et al., 89k:81080**
Semenoff, Gordon W. Nonassociative electric fields in chiral gauge theory: an explicit construction. **89d:81069a**
— Erratum: "Nonassociative electric fields in chiral gauge theory: an explicit construction". **89d:81069b**
Sénéor, Roland Some remarks for the construction of Yang-Mills field theories. (*see* **89g:81058**)
Shabad, A. E. *see* **de la Incera, V.; et al.,** (**89d:81001**)
Shatashvili, S. L. *see* **Alekseev, A. Yu.; et al., 89g:81041**
Shertzer, Janine *see* **Hloušek, Zvonimir, 89d:81060**
Shifman, M. A. (*with* Smilga, A. V.; Vaĭnshteĭn, A. I.) On the Hilbert space of supersymmetric quantum systems. **89b:81143**
Shizuya, Ken-ichi Fermionic representation of the Wess-Zumino term and the chiral Schwinger model. **89j:81115**
— *see also* **Miyake, Shogo, 89d:81065** *and* **Harada, Koji, 89e:81090**
Shvartsman, Sh. M. *see* **Fradkin, E. S., 89m:81095**
Sibold, K. *see* **Lucchesi, Claudio; et al., 89d:81062a** *and* **89d:81062b**
Silbermann, A. (*with* Tataru-Mihai, P.) Gauge fixing and Becchi-Rouet-Stora-Tyutin transform for strings via moduli. **89b:81144**
Skarke, H. (*with* Gaigg, P.) Multiloop integrals, counterterms, and renormalization of Yang-Mills theories in the light-cone gauge. (Not in MR)
Skyrme, Tony Hilton Royle The origins of Skyrmions. (Not in MR)
Slavnov, A. A. (*with* Frolov, S. A.) Propagator of the Yang-Mills field in a light cone gauge. (Russian. English summary) **89h:81122**
Smilga, A. V. *see* **Shifman, M. A.; et al., 89b:81143**
Sokatchev, E. S. *see* **Gal'perin, A. S.; et al., 89m:81096**
Solomon, S. *see* **Nissimov, E.; et al., 89f:81103**
Solov'ev, M. A. On the geometry of classical mechanics with nonabelian gauge symmetry. (Russian. English summary) **89h:81123**
Sorokin, D. P. *see* **Akulov, V. P.; et al., 89i:81064**
Soto, Joan Variational analysis of the Gross-Neveu model in an S^1 space. **89c:81080**
Spiridonov, V. P. Sp(2)-symmetric realization of the ghost spectrum in gauge theories. **89j:81116**
Stam, K. *see* **Atkinson, D.; et al., 89a:81058**
Stasheff, James *see* **Fisch, Jean; et al., 89m:81093**
Stelle, K. S. *see* **Gandhi, S. K., 89m:81098**
Stora, R. Algèbres différentielles en théorie des champs. (English summary) [Differential algebras in field theory] **89b:81145**
Suranyi, Peter *see* **Oliensis, John, 89e:81096**
Suzuki, Norio Witten's gauge field equations and an infinite-dimensional Grassmann manifold. **89g:81052**
Takao, Masaru *see* **Hamada, K.-J., 89h:81105**
Tataru-Mihai, P. *see* **Silbermann, A., 89b:81144**
Tchrakian, D. H. *see* **O'Brien, G. M., 89j:81108**
Teitelboim, Claudio *see* **Fisch, Jean; et al., 89m:81093**
Thompson, George *see* **Delbourgo, R.; et al., 89a:81068**
Tiemblo, A. *see* **Barbero, F.; et al., 89m:81089**
Tiktopoulos, G. *see* **Floratos, E. G. F.; et al., 89m:81094**
Tokarev, V. F. *see* **Korotkov, A. N., 89c:81076**
Tombal, Ph. *see* **Lambert, Dominique, 89c:81077**
Tonin, M. *see* **Bonora, L.; et al., 89f:81093**
Tosa, Y. *see* **Zhang, Huazhong; et al., 89d:81071**
Tresguerres, R. *see* **Barbero, F.; et al., 89m:81089**
Tsutsui, Izumi Cocycles in topological Yang-Mills theories. **89h:81124**
— *see also* **Harada, Koji, 89b:81126; 89e:81089** *and* **Nishikawa, Tadashi, 89j:81107**
Tsvelik, A. M. $1 + 1$-dimensional sigma model at finite temperatures. **89e:81099**
Tyutin, I. V. *see* **Ketov, S. V., 89b:81131; Gitman, D. M., 89f:81098; Bratchikov, A. V.; et al., 89g:81044** *and* **Ketov, S. V.,** (**89d:81001**)
Ubriaco, Marcelo R. *see* **Okada, Yasuhiro, 89i:81074**
Umerski, A. *see* **Howe, P. S., 89b:81128**
Vafa, Cumrun *see* **Dixon, Lance J.; et al., 89g:81045**
Vaĭnshteĭn, A. I. *see* **Shifman, M. A.; et al., 89b:81143**
Valent, G. *see* **Olivier, Dominique,** (**89g:81058**)
Vanagas, Vladislovas (*with* Katkevičius, Osvaldas) Structure and spectrum of the Hamiltonian of constant SU(2) nonabelian fields. **89f:81112**
Vaughn, Michael T. *see* **Hey, Anthony J. G.; et al.,** (Not in MR)
de Vega, H. J. Nonlinear multiplane wave solutions of self-dual Yang-Mills theory. **89f:81113**
— *see also* **Destri, C., 89b:81123**
Veneziano, G. *see* **Amati, D.; et al., 89j:81094**
Villarroel, J. Stochasticity in Yang-Mills theory. **89h:81125**
Vincent, D. E. *see* **Gegenberg, J.; et al., 89j:81099**
Volobuev, I. P. (*with* Kubyshin, Yu. A.) Higgs models generated by symmetric spaces. (Russian) (*see* **89d:81001**)
Wagner, C. E. M. Canonical quantization of nonabelian gauge theories in two dimensions. **89j:81117**
Wagner, Carlos *see* **Carena, Marcela; et al., 89a:81065**
Ward, R. S. Soliton solutions in an integrable chiral model in $2 + 1$ dimensions. **89h:81126**
Wess, Julius *see* **Bagger, J. A., 89a:81060**
Williams, David C. *see* **Hey, Anthony J. G.; et al.,** (Not in MR)
de Wit, B. (*with* Grisaru, Marcus T.) Compensating fields and anomalies. **89k:81083**
Witten, Edward Topological gravity. **89m:81100**
— *see also* **Crnković, Čedomir,** (**89b:83007**)
Wu, Xi Zeng *see* **Mansouri, Freydoon, 89g:81049**
Wu, Yue Liang *see* **Zhou, Guang Zhao; et al., 89a:81079**
Xie, Yan Bo *see* **Zhou, Guang Zhao; et al., 89a:81079**
Xiong, Chuan Sheng *see* **Jin, An Jun; et al.,** (Not in MR)
Xu, Bo Wei *see* **Ma, Zhong Qi, 89g:81048**
Yaffe, Laurence G. *see* **Ratra, Bharat, 89c:81079**
Yan, Tung-Mow *see* **Cvetič, Gorazd, 89b:81121**
Yang, Yi Song Nonexistence of the global energy minimiser of the abelian vortex model with sources. **89k:81084**
Yankielowicz, Shimon *see* **Bars, Itzhak, 89b:81116**
Yatsun, V. A. Quasi-self-dual fields in models for supersymmetric gauge theories. (Russian. English summary) **89a:81077**

— An integrable model of Yang-Mills theory with a scalar field, and quasi-instantons. (Russian. English summary) **89d:81070**
— Quasi-self-dual fields in $N = 4$ supersymmetric Yang-Mills theory. **89m:81101**
Yeung, Wai Bong (*with* Yu, Hoi Lai) Fujikawa Jacobian, modified symplectic structures, and the anomalous commutators of chiral abelian gauge theories. **89a:81078**
Yu, Hoi Lai *see* **Yeung, Wai Bong, 89a:81078**
Yu, Yue *see* **Chen, Wei; et al., 89k:81072**
Yur'ev, D. V. Octave and super-octave symmetries in exceptional gauge theories. (Russian. English summary) **89f:81114**
Zha, Chao Zheng (*with* Dai, Jian Hui) Global anomalies and Green-Schwarz mechanism. (Chinese summary) **89j:81118**
Zhang, Huazhong (*with* Okubo, Susumu; Tosa, Y.) Global gauge anomalies for simple Lie algebras. **89d:81071**
Zhang, R. B. *see* **Delbourgo, R.; et al., 89a:81068** *and* **89b:81122**
Zhang, Yao Zhong Removing Faddeev's commutator anomaly. **89b:81146**
— Realization of the three-cocycle of the gauge group in Hamiltonian dynamics. **89b:81147**
— The Virasoro algebra and group in four dimensions. **89f:81115**
— *see also* **Hou, Bo Yu, 89h:81106**
Zhao, Zhi Yong *see* **Okubo, Susumu; et al., 89d:81067**
Zhou, Guang Zhao (*with* Wu, Yue Liang; Xie, Yan Bo) A simplified derivation of Chern-Simons cochain and a possible origin of θ-vacuum term. **89a:81079**
Zhu, Zhong Yuan *see* **Jin, An Jun; et al.**, (Not in MR)
Zinn-Justin, J. (*with* Zwanziger, Daniel) Ward identities for the stochastic quantization of gauge fields. **89j:81119**
Zoupanos, G. Wilson flux breaking and coset space dimensional reduction. **89e:81100**
Zupnik, B. M. Solution of the superfield connections of six-dimensional supersymmetry theories in a harmonic superspace. (Russian) (*see* **89d:81001**)
— On the solutions of SU(2)/U(1) harmonic equations in the gauge theories. **89m:81102**
— (*with* Pak, D. G.) A superfield formulation of the simplest three-dimensional gauge theories and of conformal supergravities. **89j:81120**
Zwanziger, Daniel *see* **Zinn-Justin, J., 89j:81119**

Items with secondary classifications in 81E13

Abecasis, C. (*with* Foussats, A.; Zandron, O.) Diffeomorphically nonequivalent classes of solutions in gauge theories on group manifolds. (Italian and Russian summaries) **89a:53084**
Alcaraz, Francisco C. (*with* Martins, Márcio J.) Conformal invariance and critical exponents of the Takhtajan-Babujian models. **89m:82069**
Almorox, Antonio López Graded manifolds and supergauge theories. **89c:58012**
Alvarez-Estrada, R. F. Quantum electrodynamics at high temperature. I. One spatial dimension. **89f:81287**
— Quantum electrodynamics at high temperature. II. Three spatial dimensions. **89f:81288**
Antoine, J.-P. (*with* Piette, B.) Classical nonlinear σ models on Grassmann manifolds of compact or noncompact type. **89g:58053**
— (*with* Jacques, Michel) Corrigendum: "Classical Yang-Mills fields with noncompact symmetry and an arbitrary compact gauge group" [Classical Quantum Gravity **4** (1987), no. 1, 181–194; MR 88i:53058]. **89h:53071**
— (*with* Piette, B.) Solutions of Euclidean σ models on noncompact Grassmann manifolds. **89f:81127**
— (*with* Lambert, Dominique; Sepulchre, J.-A.) Classical Yang-Mills fields with conformal invariance: from exact solutions to qualitative analysis. **89m:53129**
Aoki, Sinya Chiral gauge theories on a lattice. **89c:81089**
Aragão de Carvalho, C. A. (*with* Rothe, K. D.) Wilson loops in bosonized two-dimensional QCD. **89f:81243**
Aratyn, Henrik (*with* Ingermanson, Randall) Abelising the Virasoro operators. **89j:58025**
— (*with* Ingermanson, Randall) Geometric interpretation of the string vertex operator. **89m:81127**
Arodź, H. Lagrangian and Hamiltonian formulations of dynamics of classical particles with spin and colour. **89k:70038**
Arsenault, Guy (*with* Jacques, Michel; Saint-Aubin, Yvan) The symmetry group of the Euclidean CP^n model as the invariance group of two bilinear forms. **89k:22038**
Asanov, G. S. (*with* Ponomarenko, S. P.; Roy, Sisir) Finslerian multi-dimensionality, associated gauge fields, and stochastic space-time. **89j:53059**
Ashtekar, Abhay ★ Asymptotic quantization. **89c:83033**
— Einstein constraints in the Yang-Mills form. **89e:83007**
Atiyah, Michael (*with* Hitchin, Nigel) ★ The geometry and dynamics of magnetic monopoles. **89k:53067**
— New invariants of 3- and 4-dimensional manifolds. **89m:57034**
Avan, J. (*with* de Vega, H. J.) Conformally covariant approach to the integrability of SDYM: linear systems, β-planes, infinitesimal Bäcklund transformations and infinite-dimensional algebras. **89h:58219**
Avron, J. E. (*with* Sadun, L.; Segert, J.; Simon, Barry) Topological invariants in Fermi systems with time-reversal invariance. **89f:81063**
Azcoiti, V. Vacuum structure in nonabelian compact SU(N) gauge theories. **89g:81060**
Baekler, Peter (*with* Hecht, Ralf; Hehl, Friedrich W.; Shirafuji, Takeshi) Mass and spin of exact solutions of the Poincaré gauge theory. **89b:83068**
— (*with* Gürses, Metin; Hehl, Friedrich W.) A new method to solve the field equations of Poincaré gauge theories. **89f:83073**
Bałaban, Tadeusz Ultraviolet stability problems in quantum field theories. **89d:81054**
— (*with* Imbrie, John Z.; Jaffe, Arthur) Effective action and cluster properties of the abelian Higgs model. **89e:81077**
Balakrishnan, Janaki (*with* Biswas, S. N.; Goyal, Ashok; Soni, S. K.) Chiral anomaly for parafermions from stochastic quantization. **89h:81162**
Bando, Masako (*with* Kugo, Taichiro; Yamawaki, Koichi) Nonlinear realization and hidden local symmetries. **89d:81121**
Barashenkov, I. V. (*with* Getmanov, B. S.; Kovtun, V. E.) Integrable model with nontrivial interaction between sub- and superluminal solitons. **89f:81158**
Barata, João C. A. (*with* Fredenhagen, Klaus) Charged particles in Z_2 gauge theories. **89e:81078**
Bartnik, Robert (*with* McKinnon, John) Particlelike solutions of the Einstein-Yang-Mills equations. **89e:83015**
Batalin, I. A. The Fradkin operator method. **89h:81060**
Bates, Larry (*with* Montgomery, R.) Closed geodesics on the space of stable two-monopoles. **89i:58023**
Batlle, C. (*with* Gomis, J.; Roca, J.) The propagator of a free relativistic particle in a generic gauge $d\lambda/d\tau = f(\lambda)$. **89m:81063**
Becchi, C. (*with* Blasi, Alberto; Bonneau, Guy; Collina, R.; Delduc, F.) Renormalizability and infrared finiteness of nonlinear σ-models: a regularization-independent analysis for compact coset spaces. **89k:81085**
— (*with* Piguet, O.) On the renormalization of two-dimensional chiral models. **89m:81103**
Bern, Z. (*with* Halpern, M. B.) Diagrammatic methods in phase-space regularization. **89j:81121**
Berzi, Vittorio (*with* Reni, Marco) Weak Riemannian structures on gauge-group orbits. **89a:58013**
Biswas, S. N. *see* **Balakrishnan, Janaki; et al., 89h:81162**
Blagojević, M. (*with* Nikolić, I.; Vasilić, M.) Local Poincaré generators in the $R + T^2 + R^2$ theory of gravity. (Italian and Russian summaries) **89m:83072**
Blasi, Alberto *see* **Becchi, C.; et al., 89k:81085**
Blau, Matthias Wess-Zumino terms and the geometry of the determinant line bundle. **89m:58189**
Bonneau, Guy Renormalization of bosonic nonlinear σ-models built on compact homogeneous manifolds. (*see* **89g:81058**)
— *see also* **Becchi, C.; et al., 89k:81085**
Borgs, Christian Confinement, deconfinement and freezing in lattice Yang-Mills theories with continuous time. **89k:81115**
Bourguignon, Jean-Pierre Yang-Mills theory: the differential geometric side. **89f:58040**
Bowick, M. J. (*with* Rajeev, S. G.) String theory as the Kähler geometry of loop space. **89a:22034a**
— (*with* Rajeev, S. G.) Errata: "String theory as the Kähler geometry of loop space". **89a:22034b**
Boyer, Charles P. (*with* Mann, Benjamin M.) Monopoles, nonlinear σ models, and two-fold loop spaces. **89g:32030**
Breitenlohner, Peter $N = 2$ supersymmetric Yang-Mills theories in the Wess-Zumino gauge. (*see* **89g:81058**)
— *see also* **Renormalization of quantum field theories with nonlinear field transformations, 89g:81058**
Brucker, R. (*with* Sorg, M.) Geometry and topology of SO(4) trivializable gauge fields. **89c:53059**
Bruzzo, Ugo (*with* Cianci, Roberto) Mathematical foundations of supermanifold field theories: action functional and reduction to spacetime. (Italian summary) **89g:58011**
Bukhbinder, I. L. (*with* Wolfengaut, J. J.) Renormalisation group equations and effective action in curved spacetime. **89m:81113**
— (*with* Ketov, S. V.) The one-loop counterterm for the four-dimensional sigma model with higher derivatives. **89j:81122**
Burgers, G. J. H. (*with* van Dam, H.) On classical action at a distance theories which contain a cutoff. **89c:70025**
Burt, P. B. Nonperturbative solution of nonlinear field equations. (Italian and Russian summaries) **89h:81021**
Chakrabarti, Amitabha Fermions in a finite-action SU(2) gauge field in Minkowski space: isospin flip. **89j:81023**
Challifour, J. L. (*with* Wood, W. A.) Path-space formulas for covariant gauges in Kreĭn spaces. **89e:81079**
Chargoy-Corona, J. (*with* Glazebrook, J. F.) Nil-instantons associated with the classical torus CP^2-model. **89i:58026**
Chau, Ling-Lie (*with* Milewski, Bartosz) Linear system and conservation laws for $d = 10$ super-Yang-Mills. **89b:53111**
Chen, Hao *see* **Guo, Shuo Hong, 89e:81124**
Chiao, Raymond Y. *see* **Garrison, J. C., 89a:70016**
Cianci, Roberto *see* **Bruzzo, Ugo, 89g:58011**
Collina, R. *see* **Becchi, C.; et al., 89k:81085**
van Dam, H. *see* **Burgers, G. J. H., 89c:70025**
Da Silva, A. J. *see* **Gomes, Marcelo O. C.; et al., 89c:81196**
Davis, Simon A constraint on the geometry of Yang-Mills theories. **89f:53104**
De Alfaro, V. (*with* Fubini, S.; Furlan, G.) Quantisation, instantons and supersymmetry. **89h:81073**
Delbourgo, R. (*with* Zhang, R. B.) Grassmannian Kaluza-Klein theory and the standard model. **89k:83069**
Delduc, F. *see* **Becchi, C.; et al., 89k:81085**
Deser, S. (*with* Jackiw, R.) Comment on: "What is the most general abelian gauge theory in two spatial dimensions?" [Phys. Rev. Lett. **58** (1987), no. 11, 1074–1076; MR 88j:81038a] by C. R. Hagen. **89f:81129**
Distler, Jacques Resurrecting (2, 0) compactifications. **89a:81124**
Doktorov, E. V. (*with* Milovanov, M. V.) On a connection between Einstein-Maxwell equations and self-duality equations for gauge fields. **89k:83007**
Dubois-Violette, Michel Structure algébrique des anomalies et cohomologies de BRS. [Algebraic structure of BRS cohomology and anomalies] **89b:53112**
— Systèmes dynamiques contraints: l'approche homologique. (English summary) [Constrained dynamical systems: the homological approach] **89e:58047**
Dullemond, C. Quarks and gluons in a model with induced geometry. (Not in MR)
Duncan, Anthony Lattice Hamiltonian in physical gauges. **89c:81092**
Egoryan, Èd. Sh. (*with* Manvelyan, R. P.) A new method for supersymmetric and gauge-invariant regularization. **89f:81117**
Ellwanger, U. (*with* Fuchs, Jürgen; Schmidt, Michael G.) The heterotic σ-model with background gauge fields. **89m:81105**
Esteban, M. J. Existence of symmetric solutions for the Skyrme's problem. **89c:81117**
Falter, C. *see* **Ludwig, W., 89h:81001**
Federbush, Paul A phase cell approach to Yang-Mills theory. IV. The choice of variables. **89f:81090**
Flaherty, F. J. Instantons on the quaternionic Siegel space. **89f:53047**

Flato, M. (*with* Fronsdal, Christian) Singletons: fundamental gauge theory. **89h:81143**

Floreanini, Roberto (*with* Vinet, Luc) Vacuum state of complex scalar fields in SO(2, 1)-invariant backgrounds. **89a:81090**

Foussats, A. (*with* Zandron, O.) Covariant Hamiltonian formalism for supersymmetric Yang-Mills theory coupled to supergravity. **89m:83093**

— *see also* **Abecasis, C.; et al., 89a:53084**

Fredenhagen, Klaus *see* **Barata, João C. A., 89e:81078**

Friedan, D. (*with* Windey, P.) Supersymmetric derivation of the Atiyah-Singer index and the chiral anomaly. **89b:58198**

Frolov, S. A. *see* **Slavnov, A. A., 89f:81078**

Fronsdal, Christian *see* **Flato, M., 89h:81143**

Fubini, S. *see* **De Alfaro, V.; et al., 89h:81073**

Fuchs, Jürgen *see* **Ellwanger, U.; et al., 89m:81105**

Fujiwara, Takanori (*with* Ohnuki, Yoshio) Anomalies and Weyl modes in chiral gauge theories. **89e:81104**

Fukuyama, Takeshi (*with* Kamimura, Kiyoshi) Anomalies in two-dimensional gravity. **89c:81120**

Funakubo, Koichi (*with* Kashiwa, Tarō) Chiral gauge theories on a lattice. **89b:81165**

Furlan, G. *see* **De Alfaro, V.; et al., 89h:81073**

Gal'perin, A. S. (*with* Ivanov, Evgeniĭ Alekseevich^2; Ogievetskiĭ, V. I.; Sokatchev, E. S.) Harmonic superspace and extended supersymmetries. (Russian) (*see* **89d:81001**)

— (*with* Ivanov, Evgeniĭ Alekseevich^2; Ogievetskiĭ, V. I.; Sokatchev, E. S.) Harmonic superspace. Results and perspectives. (Russian) (*see* **89g:81003**)

— (*with* Ivanov, Evgeniĭ Alekseevich^2; Ogievetskiĭ, V. I.; Sokatchev, E. S.) Gauge field geometry from complex and harmonic analyticities. I. Kähler and self-dual Yang-Mills cases. **89i:53053**

— (*with* Ivanov, Evgeniĭ Alekseevich^2; Ogievetskiĭ, V. I.; Sokatchev, E. S.) Gauge field geometry from complex and harmonic analyticities. II. Hyper-Kähler case. **89i:53054**

Gamboa, Jorge (*with* Zanelli, Jorge) Supersymmetric quantum mechanics of fermions minimally coupled to gauge fields. **89c:81122**

Garczyński, Włodzimierz Measure in the functional integral over the configuration space. **89k:81040**

Garrison, J. C. (*with* Chiao, Raymond Y.) Geometrical phases from global gauge invariance of nonlinear classical field theories. **89a:70016**

Gavrilov, S. P. The gauge formalism and generalized Yang-Mills fields. (Russian) **89d:53123**

Ge, Mo Lin *see* **Lü, Jing Fa,** (Not in MR)

Getmanov, B. S. *see* **Barashenkov, I. V.; et al., 89f:81158**

Ghaboussi, F. Group theory of spontaneous symmetry breaking. **89e:81065**

Gibbons, Gary (*with* Ruback, Peter) The hidden symmetries of multicentre metrics. **89j:53060**

Gieres, François Geometric approach to the (BRS-) differential algebras of supersymmetric Yang-Mills theories. **89k:53069**

Glazebrook, J. F. *see* **Chargoy-Corona, J., 89i:58026**

Gleiser, Reinaldo (*with* González, Gabriela I.; Pullin, Jorge) Higher order poles in the Belinskiĭ-Zakharov inverse scattering method. **89k:83015**

Gogberashvili, M. *see* **Sardanashvili, G. A., 89m:83078**

Gomes, Marcelo O. C. (*with* Kurak, V.; Da Silva, A. J.) Superconformal invariant nonlinear σ-models from the bosonic ones. **89c:81196**

Gomis, J. *see* **Batlle, C.; et al., 89m:81063**

González, Gabriela I. *see* **Gleiser, Reinaldo; et al., 89k:83015**

Goswami, P. *see* **Lord, Eric A., 89b:58039**

Govaerts, Jan Isometric compactifications of gravity-Yang-Mills theories. **89a:83058**

Goyal, Ashok *see* **Balakrishnan, Janaki; et al., 89h:81162**

Grasso, Massimo (*with* Teofilatto, Paolo) Gauge theories, flat superforms and reduction of super fiber bundles. **89k:53070**

Grignani, G. (*with* Mintchev, M.) Renormalization and conformal properties of σ models on Riemannian space with torsion. **89k:81089**

Groisser, David (*with* Parker, Thomas H.) The Riemannian geometry of the Yang-Mills moduli space. **89b:58024**

Guo, Shuo Hong (*with* Chen, Hao) Exact solutions for the topological charge in $1+1$-dimensional lattice gauge theory. (Chinese. English summary) **89e:81124**

Gürses, Metin *see* **Baekler, Peter; et al., 89f:83073**

(Hagen, C. R.) *see* **Deser, S., 89f:81129**

Hallap, T. (*with* Kiiranen, K.) Lie point transformations admitted by E. Witten equations. (Russian summary) **89b:58230**

Haller, Kurt Quantum electrodynamics in the temporal gauge. **89a:81186**

Halpern, M. B. Coordinate-invariant regularization. **89g:81055**

— *see also* **Bern, Z., 89j:81121**

Harrison, B. Kent *see* **Papachristou, C. J., 89b:58186** *and* **89d:58113**

Hatfield, B. F. (*with* Yau, S.-T.) An exchange symmetry expansion for the 2-point correlation function of the nonlinear Schrödinger model. **89k:82022**

Hattori, Akio Topology of the moduli space of SU(2)-instantons with instanton number 2. **89m:53134**

Hecht, Ralf *see* **Baekler, Peter; et al., 89b:83068**

Hehl, Friedrich W. *see* **Baekler, Peter; et al., 89b:83068; McCrea, J. Dermott; et al., 89d:83055** *and* **Baekler, Peter; et al., 89f:83073**

Heiderich, K. (*with* Unruh, W.) Spin-two fields, general covariance, and conformal invariance. **89i:81093**

Helfer, Adam D. A formula for the local solution of the self-dual Yang-Mills equations. **89b:32039**

Henderson, Jenny Aline *see* **Jarvis, P. D., 89e:81109**

Henneaux, M. BRST extensions of a Lie group. **89i:22036**

Hertz, J. A. A "gauge theory" in computational vision: a model for outline extraction. **89m:92061**

Hitchin, Nigel ★ Monopoles, minimal surfaces and algebraic curves. **89h:58043**

— The self-duality equations on a Riemann surface. **89a:32021**

— *see also* **Atiyah, Michael, 89k:53067**

Holm, Darryl D. (*with* Kupershmidt, B. A.) The analogy between spin glasses and Yang-Mills fluids. **89g:82050**

Hou, Bo Yu (*with* Zhang, Yao Zhong) Cohomology in connection space, family index theorem, and abelian gauge structure. **89a:58021**

Hu, He Sheng (*with* Wu, Siye) Nonexistence theorems for Yang-Mills fields and harmonic maps in the Schwarzschild spacetime. II. **89b:81157**

Imbrie, John Z. *see* **Bałaban, Tadeusz; et al., 89e:81077**

Inamoto, Tadashi Becchi-Rouet-Stora-Tyutin Hamiltonian method and the membrane model. **89c:81131**

Ingermanson, Randall *see* **Aratyn, Henrik, 89j:58025** *and* **89m:81127**

Itoh, Mitsuhiro Yang-Mills connections over a complex surface and harmonic curvature. **89c:53050**

— Singularities of the moduli space of Yang-Mills fields. **89d:58023**

— Gauge fields and quaternion structure. **89m:53076**

Ivanov, Evgeniĭ Alekseevich^2 *see* **Gal'perin, A. S.; et al., 89i:53053; 89i:53054; (89d:81001)** *and* **(89g:81003)**

Jackiw, R. Chern-Simons terms and cocycles in physics and mathematics. **89m:58208**

— *see also* **Deser, S., 89f:81129**

Jacques, Michel (*with* Saint-Aubin, Yvan) Infinite-dimensional Lie algebras acting on the solution space of various σ models. **89c:58027**

— *see also* **Antoine, J.-P., 89h:53071** *and* **Arsenault, Guy; et al., 89k:22038**

Jaffe, Arthur *see* **Bałaban, Tadeusz; et al., 89e:81077**

Jarvis, P. D. (*with* Henderson, Jenny Aline) Coset space dimensional reduction and one-loop corrections. **89e:81109**

Jolicoeur, T. (*with* Lacaze, R.; Napoly, O.) Anomalies for compact symmetries and the nonabelian anomaly on the lattice. **89a:81103**

Kaku, Michio Generally covariant lattices, the random calculus, and the strong coupling approach to the renormalisation of gravity. **89k:83052**

Kalinowski, M. W. The program of geometrization of physics: some philosophical remarks. **89j:83001**

Kamimura, Kiyoshi *see* **Fukuyama, Takeshi, 89c:81120**

Kanno, Hiroaki Algebraic cohomology versus topological cohomology in constructing the Wess-Zumino term of the σ-model. **89f:81253**

Kashiwa, Tarō *see* **Funakubo, Koichi, 89b:81165**

Kavalov, An. R. (*with* Mkrtchyan, R. L.) Lagrangian for the self-duality equation and $d = 10$, $N = 2b$ supergravity. **89d:83074**

Kawai, E. Fields and their propagators on hyperspheres. (Italian and Russian summaries) **89k:81103**

Kawai, Hikaru (*with* Lewellen, D. C.; Tye, S.-H. H.) Construction of four-dimensional fermionic strings: a brief review. (*see* **89a:81005**)

Kawamura, Yoshiharu (*with* Suzuki, Tsuneo; Yamada, Eiji) A comment on a new interpretation of the chiral anomaly. **89e:81105**

Kerbrat, Yvan (*with* Kerbrat-Lunc, Hélène) Géométrie et physique. Les outils de la géométrie différentielle dans les théories de jauge de la physique. (English summary) [Geometry and physics. The tools of differential geometry in the gauge theories of physics] **89m:53135**

Kerbrat-Lunc, Hélène *see* **Kerbrat, Yvan, 89m:53135**

Kersten, P. H. M. Infinitesimal symmetries of partial differential equations with an application to the construction of the instanton and monopole solution of the self-dual Yang-Mills equations. (*see* **89m:81083**)

Ketov, S. V. Equations of the renormalization group for a two-dimensional nonlinear sigma model with torsion. **89j:81128**

— *see also* **Bukhbinder, I. L., 89j:81122**

Khare, Avinash *see* **Paul, Samir K., 89b:81243**

Khariton, N. G. *see* **Svetovoĭ, V. B., 89j:81145**

Kibble, T. W. B. Gauge fields, topological defects and cosmology. (*see* **89m:01069**)

Kiiranen, K. (*with* Rosenhaus, V.) Gauge invariance as the Lie-Bäcklund transformation group. **89f:78009**

— *see also* **Hallap, T., 89b:58230**

Kijowski, Jerzy (*with* Rudolph, Gerd; Thielmann, Artur) Symplectic structure of a nonabelian Higgs model on the lattice. **89d:81082**

Knizhnik, V. G. (*with* Polyakov, A. M.; Zamolodchikov, Aleksandr B.) Fractal structure of 2D-quantum gravity. **89i:83039**

Kogan, Ya. I. (*with* Morozov, A. Yu.; Ol'shanetskiĭ, M. A.; Shifman, M. A.) The construction of valleys in a supersymmetric model with gauge group E_6 and a matter 27-plet. **89a:81171**

Kontsevich, M. L. The Virasoro algebra and Teichmüller spaces. (Russian) **89a:17022**

Kovtun, V. E. *see* **Barashenkov, I. V.; et al., 89f:81158**

Kozimirov, N. G. (*with* Kuz'min, V. A.; Tkachev, I. I.) On symmetry breaking at coset space dimensional reduction. **89i:53056**

Kubyshin, Yu. A. (*with* Mourão, J. M.; Volobuev, I. P.) Spontaneous compactification and dimensional reduction. **89i:83056**

— *see also* **Volobuev, I. P., 89b:83090**

Kugo, Taichiro *see* **Bando, Masako; et al., 89d:81121**

Kupershmidt, B. A. *see* **Holm, Darryl D., 89g:82050**

Kurak, V. *see* **Gomes, Marcelo O. C.; et al., 89c:81196**

Kuz'min, V. A. *see* **Kozimirov, N. G.; et al., 89i:53056**

Lacaze, R. *see* **Jolicoeur, T.; et al., 89a:81103**

Lai, Choy-Heng *see* **Oh, C. H.; et al., 89g:53108**

Lambert, Dominique *see* **Antoine, J.-P.; et al., 89m:53129**

Landi, G. (*with* Marmo, G.) Einstein algebras and the algebraic Kaluza-Klein monopole. **89f:53106**

Le Bellac, Michel ★ Des phénomènes critiques aux champs de jauge. (French) [From critical phenomena to gauge fields] **89h:81003**

Lee, I-Hsiu (*with* Shrock, Robert E.) Chiral symmetry properties of U(1) lattice gauge theory with scalar and fermion fields. **89m:81123**

— (*with* Shrock, Robert E.) The chiral transition in an SU(2) gauge-Higgs-fermion theory with Yukawa couplings. **89m:81124**

Leibbrandt, George A general prescription for three prominent noncovariant gauges. **89m:81107**

Lewellen, D. C. *see* **Kawai, Hikaru; et al., (89a:81005)**

Li, Jian Ling (*with* Zhou, Rong Yu; Zhou, Xian Jian) Left-right symmetry model in Wess-

Zumino-Witten effective action. **89h:81262**
Lord, Eric A. Gauge theories of gravity. **89g:83042**
— (*with* Goswami, P.) Gauge theory of a group of diffeomorphisms. III. The fiber bundle description. **89b:58039**
Lŭ, Jing Fa (*with* Ge, Mo Lin) The Yang-Baxter algebra in a nonlinear chiral model. (Chinese) (Not in MR)
Lucchesi, Claudio (*with* Piguet, O.; Sibold, K.) Vanishing β-functions in $N = 1$ supersymmetric gauge theories. **89m:81108**
Ludwig, W. (*with* Falter, C.) ★ Symmetries in physics. **89h:81001**
Lundell, Albert T. (*with* Tosa, Y.) Global anomalies and algebraic topology. **89f:81195**
Lüscher, M. (*with* Weisz, P.) Application of the linked cluster expansion to the n-component φ^4 theory. **89e:81128**
Maebashi, Toshiyuki Monopoles with one-point singularity. **89f:53108**
Maeno, Masahiro (*with* Sawada, Shiro) String field theory in curved space: a nonlinear σ-model analysis. **89m:81115**
Maia, Adolfo, Jr. *see* **Recami, Erasmo; et al., 89d:53126**
(Maison, Dieter) *see* **Renormalization of quantum field theories with nonlinear field transformations, 89g:81058**
Majid, Shahn Liouville theorem for the Yang-Mills self-duality equations. **89i:58153**
Malec, Edward The absence of small solutions of nonlinear field equations. **89b:35159**
Mann, Benjamin M. *see* **Boyer, Charles P., 89g:32030**
Manvelyan, R. P. *see* **Egoryan, Èd. Sh., 89f:81117**
Marmo, G. *see* **Landi, G., 89f:53106**
Marshak, R. E. *see* **Okubo, Susumu; et al., 89g:53109**
Marston, J. Brad U(1) gauge theory of the Heisenberg antiferromagnet. **89h:82049**
Martins, Márcio J. *see* **Alcaraz, Francisco C., 89m:82069**
Matinyan, S. G. (*with* Savvidi, G. K.; Ter-Arutyunyan-Savvidi, N. G.) Stochasticity of Yang-Mills classical mechanics and its elimination by the Higgs mechanism. **89m:70051**
Maurin, Krzysztof Duality (polarity) in mathematics, physics and philosophy. **89m:22005**
Mavromatos, N. E. A note on the Atiyah-Singer index theorem for manifolds with totally antisymmetric H torsion. **89i:58136**
McCrea, J. Dermott (*with* Mielke, Eckehard W.; Hehl, Friedrich W.) A remark on the axisymmetric Chen et al. solution of the Poincaré gauge theory. **89d:83055**
McKinnon, John *see* **Bartnik, Robert, 89e:83015**
Mészáros, A. Remark on the gauge behaviour of contortion. **89e:83059**
Mickelsson, Jouko Kac-Moody groups, topology of the Dirac determinant bundle, and fermionization. **89a:22036**
Mielke, Eckehard W. *see* **McCrea, J. Dermott; et al., 89d:83055**
Milewski, Bartosz *see* **Chau, Ling-Lie, 89b:53111**
Milovanov, M. V. *see* **Doktorov, E. V., 89k:83007**
Mintchev, M. *see* **Grignani, G., 89k:81089**
Mitter, P. K. (*with* Ramadas, T. R.) The two-dimensional O(n) nonlinear σ-model from a Wilson renormalization group viewpoint. (*see* **89g:81058**)
Mkrtchyan, R. L. *see* **Kavalov, An. R., 89d:83074**
Modugno, Marco Systems of vector valued forms on a fibred manifold and applications to gauge theories. **89a:58005**
Montgomery, R. *see* **Bates, Larry, 89i:58023**
Morozov, A. Yu. (*with* Ol′shanetskiĭ, M. A.; Shifman, M. A.) Gluino condensate in supersymmetric gluodynamics. II. **89j:81248**
— *see also* **Kogan, Ya. I.; et al., 89a:81171**
Mourão, J. M. *see* **Kubyshin, Yu. A.; et al., 89i:83056**
Müller-Hoissen, Folkert Modification of Einstein-Yang-Mills theory from dimensional reduction of the Gauss-Bonnet action. **89g:83046**
Murray, M. K. Another construction of the central extension of the loop group. **89e:22035**
Nadel, Alan Singularities and Kodaira dimension of the moduli space of flat Hermitian-Yang-Mills connections. **89k:32056**
Napoly, O. *see* **Jolicoeur, T.; et al., 89a:81103**
Nash, Charles Edward Complex anomalies, and noncommutative geometry. **89a:53086**
Naskar, Minati *see* **Roy Chowdhury, A., 89c:58148**
Nemeschansky, Dennis (*with* Preitschopf, C.; Weinstein, Marvin) A BRST primer. **89h:81077**
Neugebauer, Gernot Chiral fields as minimal surfaces. (German and Russian summaries) **89b:53115**
Nikolaevskiĭ, E. S. (*with* Shchur, L. N.) Symmetry of the Hamiltonian, intersection of separatrices, and nonintegrability of the Yang-Mills fields. **89m:58071**
Nikolić, I. *see* **Blagojević, M.; et al., 89m:83072**
Nissimov, E. (*with* Pacheva, S.) Nonperturbative inconsistency of stochastic quantization in odd dimensions. **89d:81076**
Nitta, Takashi Vector bundles over quaternionic Kähler manifolds. **89m:53077**
Noguchi, Mitsunori Yang-Mills-Higgs theory on a compact Riemann surface. **89f:58041**
Noriega, R. J. (*with* Prélat, D.; Schifini, C. G.) Scalar concomitants of a metric and a curvature form. **89d:83013**
Ogievetskiĭ, V. I. *see* **Gal′perin, A. S.; et al., 89i:53053; 89i:53054**; (**89d:81001**) *and* (**89g:81003**)
Oh, C. H. (*with* Soo, C. P.; Lai, Choy-Heng) Conserved gauge invariant charges in Yang-Mills gauge field theories. **89g:53108**
Ohnuki, Yoshio *see* **Fujiwara, Takanori, 89e:81104**
Okubo, Susumu (*with* Zhang, Huazhong; Tosa, Y.; Marshak, R. E.) SU(N) global gauge anomalies in even dimensions. **89g:53109**
— *see also* **Tosa, Y., 89c:81170; 89g:81092a; 89g:81092b** *and* **Zhang, Huazhong, 89m:81168**
Ol′shanetskiĭ, M. A. *see* **Kogan, Ya. I.; et al., 89a:81171** *and* **Morozov, A. Yu.; et al., 89j:81248**
O'Raifeartaigh, L. The anomaly-flux-index identity and its Euclidean extension. **89m:81156**
Osborn, Hugh Renormalisation group and two-point functions in bosonic σ models. **89k:81094**
Otway, Thomas H. Removable singularities in coupled Yang-Mills-Dirac fields. **89c:58028**
Pacheva, S. *see* **Nissimov, E., 89d:81076**
Papachristou, C. J. (*with* Harrison, B. Kent) Nonlocal symmetries and Bäcklund transformations for the self-dual Yang-Mills system. **89b:58186**
— (*with* Harrison, B. Kent) Bäcklund transformations and local conservation laws for self-dual Yang-Mills fields with arbitrary gauge group. **89d:58113**
Parker, Thomas H. *see* **Groisser, David, 89b:58024**
Paul, Samir K. (*with* Khare, Avinash) Erratum: "Charged vortices in an abelian Higgs model with Chern-Simons term" [Phys. Lett. B **174** (1986), no. 4, 420–422; MR 87j:81269a]. **89b:81243**
Piette, B. *see* **Antoine, J.-P., 89f:81127** *and* **89g:58053**
Piguet, O. Superspace renormalization of $N = 1$, $d = 4$ supersymmetric gauge theories. (*see* **89g:81058**)
— (*with* Schweda, M.; Skarke, H.) Extended BRS symmetry in non-light-cone and light-cone gauges. **89j:81130**
— *see also* **Becchi, C., 89m:81103** *and* **Lucchesi, Claudio; et al., 89m:81108**
Pletnëv, N. G. (*with* Serebryakov, V. S.) Covariant formalism of reductions from superconformal gauge theories to Poincaré supergravities. (Russian. English summary) **89h:83039**
Pokorski, S. ★ Gauge field theories. **89c:81003**
Polchinski, J. Scale and conformal invariance in quantum field theory. **89j:81144**
Polyakov, A. M. Quantum gravity in two dimensions. **89b:83049**
— *see also* **Knizhnik, V. G.; et al., 89i:83039**
Polychronakos, Alexios P. Symmetry-breaking patterns in $(2 + 1)$-dimensional gauge theories. **89d:81052**
Ponomarenko, S. P. *see* **Asanov, G. S.; et al., 89j:53059**
Pope, C. N. Sigma model β-functions at all loop orders. (*see* **89g:81058**)
Popov, A. D. Hidden symmetries of theories of Kaluza-Klein type. (Russian. English summary) **89a:83064**
Preitschopf, C. *see* **Nemeschansky, Dennis; et al., 89h:81077**
Prélat, D. *see* **Noriega, R. J.; et al., 89d:83013**
Prugovečki, E. On Newton-Cartan quantum geometries. **89b:81161**
— A Poincaré gauge-invariant formulation of general-relativistic quantum geometry. (Italian and Russian summaries) **89b:81055**
Pullin, Jorge *see* **Gleiser, Reinaldo; et al., 89k:83015**
Rajeev, S. G. *see* **Bowick, M. J., 89a:22034a** *and* **89a:22034b**
Ramadas, T. R. *see* **Mitter, P. K.**, (**89g:81058**)
Ramirez Romero, Cupatitzio The realizations of local supersymmetry. **89m:81191**
Ramond, P. Field theory of strings. (*see* **89f:81005**)
Recami, Erasmo (*with* Rodrigues, Waldyr A., Jr.; Maia, Adolfo, Jr.; Rosa, Marcio A. F.) Magnetic monopoles without string by Kähler-Clifford algebra: a satisfactory formalism. **89d:53126**
Redlich, A. N. Diffeomorphism parameters as coordinates in string field theory. **89h:81226**
Reni, Marco *see* **Berzi, Vittorio, 89a:58013**
Roca, J. *see* **Batlle, C.; et al., 89m:81063**
Rodrigues, Waldyr A., Jr. *see* **Recami, Erasmo; et al., 89d:53126**
Rosa, Marcio A. F. *see* **Recami, Erasmo; et al., 89d:53126**
Rosenbaum, M. (*with* Ryan, Michael P., Jr.) Spontaneous compactification and coupling constants in $\mathbf{R}^2$ unified gauge theories. **89i:83058**
Rosenhaus, V. *see* **Kiiranen, K., 89f:78009**
Roslyĭ, A. A. Super Yang-Mills constraints as integrability conditions. **89m:58045**
Rothe, K. D. *see* **Aragão de Carvalho, C. A., 89f:81243**
Roy, Sisir *see* **Asanov, G. S.; et al., 89j:53059**
Roy Chowdhury, A. (*with* Naskar, Minati) Painlevé analysis and the Yang-Mills equation in two specific cases. (German summary) **89c:58148**
Ruback, Peter Vortex string motion in the abelian Higgs model. **89f:53111**
— *see also* **Gibbons, Gary, 89j:53060**
Rudolph, Gerd Gauge invariant quantities for a Higgs model with gauge group SU(3). **89e:53110**
— *see also* **Kijowski, Jerzy; et al., 89d:81082**
Ryan, Michael P., Jr. *see* **Rosenbaum, M., 89i:83058**
Sadun, L. *see* **Avron, J. E.; et al., 89f:81063**
Saint-Aubin, Yvan *see* **Jacques, Michel, 89c:58027** *and* **Arsenault, Guy; et al., 89k:22038**
Salomonson, Per (*with* Skagerstam, Bo-Sture; Stern, Allen Bruce) General coupling of strings to the low-energy effective theory. **89h:83040**
Sardanashvili, G. A. (*with* Gogberashvili, M.) Translation gauge fields and space-time dislocations. (German summary) **89m:83078**
Savvidi, G. K. *see* **Matinyan, S. G.; et al., 89m:70051**
Sawada, Shiro *see* **Maeno, Masahiro, 89m:81115**
Schenk, H. On a generalised Fourier transform of instantons over flat tori. **89h:53076**
Schifini, C. G. *see* **Noriega, R. J.; et al., 89d:83013**
Schmidt, Michael G. *see* **Ellwanger, U.; et al., 89m:81105**
Schweda, M. *see* **Piguet, O.; et al., 89j:81130**
Segert, J. *see* **Avron, J. E.; et al., 89f:81063**
Sepulchre, J.-A. *see* **Antoine, J.-P.; et al., 89m:53129**
Serebryakov, V. S. *see* **Pletnëv, N. G., 89h:83039**
Sevrin, A. (*with* Troost, W.; Van Proeyen, A.) Superconformal algebras in two dimensions with $N = 4$. **89h:17033**
— *see also* **Spindel, Ph.; et al., 89f:81139**
Shchur, L. N. *see* **Nikolaevskiĭ, E. S., 89m:58071**
Shevchenko, O. Yu. *see* **Skachkov, N. B.; et al., 89b:81272**
Shifman, M. A. (*with* Vaĭnshteĭn, A. I.) Consistency of anomalies in SUSY gauge theories. (*see* **89f:81005**)
— *see also* **Kogan, Ya. I.; et al., 89a:81171** *and* **Morozov, A. Yu.; et al., 89j:81248**
Shirafuji, Takeshi *see* **Baekler, Peter; et al., 89b:83068**
Shrock, Robert E. *see* **Lee, I-Hsiu, 89m:81123** *and* **89m:81124**
Sibold, K. *see* **Lucchesi, Claudio; et al., 89m:81108** *and* **Renormalization of quantum field theories with nonlinear field transformations, 89g:81058**
Siegel, Warren Free field equations for everything. **89h:81095**
Simon, Barry *see* **Avron, J. E.; et al., 89f:81063**
Simpson, Carlos T. Yang-Mills theory and uniformization. **89a:32034**
Skachkov, N. B. (*with* Solovtsov, I. L.; Shevchenko, O. Yu.) Infrared asymptotics of a gauge-invariant propagator in quantum electrodynamics. (Russian. English summary) **89b:81272**

Skagerstam, Bo-Sture *see* **Salomonson, Per; et al., 89h:83040**

Skarke, H. *see* **Piguet, O.; et al., 89j:81130**

Slavnov, A. A. (*with* Frolov, S. A.) Quantization of a nonabelian antisymmetric tensor field. **89f:81078**

Smit, Jan (*with* Vink, Jeroen C.) Topological charge and fermions in the two-dimensional lattice U(1) model. I. Staggered fermions. **89f:81145**

Sokatchev, E. S. *see* **Gal′perin, A. S.; et al., 89i:53053; 89i:53054**; (**89d:81001**) *and* (**89g:81003**)

Solov′ev, M. A. Topological properties of a space of orbits in gauge field theory. (Russian) (*see* **89d:81001**)

Solovtsov, I. L. *see* **Skachkov, N. B.; et al., 89b:81272**

Soni, S. K. *see* **Balakrishnan, Janaki; et al., 89h:81162**

Soo, C. P. *see* **Oh, C. H.; et al., 89g:53108**

Sorg, M. *see* **Brucker, R., 89c:53059**

Sorokin, D. P. (*with* Tkach, V. I.) Spontaneous compactification of subspaces in Kaluza-Klein theories. **89f:83090**

Spindel, Ph. (*with* Sevrin, A.; Troost, W.; Van Proeyen, A.) Complex structures on parallelised group manifolds and supersymmetric σ-models. **89f:81139**

Srivastava, Prem P. ★ Supersymmetry, superfields and supergravity. **89b:81004**

Stamatopoulos, G. P. Classical solutions of the Yang-Mills field equations. (Italian and Russian summaries) **89a:35218**

Stelle, K. S. Nonlinear field renormalizations in the background field method. (*see* **89g:81058**)

Stern, Allen Bruce *see* **Salomonson, Per; et al., 89h:83040**

Šťovíček, Pavel Action of the conformal group on a manifold of instanton solutions. (Czech. English and Russian summaries) **89d:53127**

Suzuki, Tsuneo *see* **Kawamura, Yoshiharu; et al., 89e:81105**

Svetovoĭ, V. B. (*with* Khariton, N. G.) A gauge theory in a space with nontrivial topology. **89j:81145**

Szczyrba, Wiktor Stephenson-Kilmister-Yang theory of gravity and its dynamics. **89b:83074**

Szlachányi, Kornél Charged sectors in the tetrahedral Higgs model. **89f:81146**

Taubes, Clifford Henry Gauge theories and nonlinear partial differential equations. **89m:58046**

Teofilatto, Paolo *see* **Grasso, Massimo, 89k:53070**

Ter-Arutyunyan-Savvidi, N. G. *see* **Matinyan, S. G.; et al., 89m:70051**

Thielmann, Artur *see* **Kijowski, Jerzy; et al., 89d:81082**

Tkach, V. I. *see* **Sorokin, D. P., 89f:83090**

Tkachev, I. I. *see* **Kozimirov, N. G.; et al., 89i:53056**

Torre, C. G. The BRST formalism in general relativity. (*see* **89m:83003**)

Torresani, Bruno Unitary positive energy representations of the gauge group. **89a:22037**

Tosa, Y. (*with* Okubo, Susumu) Systematic search for anomaly-free theories. **89g:81092a**

— (*with* Okubo, Susumu) Anomaly-free theories in $D = 4k$ dimensions. **89c:81170**

— (*with* Okubo, Susumu) Erratum: "Systematic search for anomaly-free theories". **89g:81092b**

— *see also* **Lundell, Albert T., 89f:81195** *and* **Okubo, Susumu; et al., 89g:53109**

Townsend, P. K. Supersymmetric extended solitons. **89f:83091**

Troost, W. *see* **Spindel, Ph.; et al., 89f:81139** *and* **Sevrin, A.; et al., 89h:17033**

Tseytlin, A. A. Weyl invariance of a generalized two-dimensional sigma-model. **89k:81177**

Tye, S.-H. H. *see* **Kawai, Hikaru; et al.,** (**89a:81005**)

Unruh, W. *see* **Heiderich, K., 89i:81093**

Urbantke, H. On integrability properties of SU(2) Yang-Mills fields. II. Local problem. **89k:53071**

Vaĭnshteĭn, A. I. *see* **Shifman, M. A.,** (**89f:81005**)

Van Proeyen, A. *see* **Spindel, Ph.; et al., 89f:81139** *and* **Sevrin, A.; et al., 89h:17033**

Vashakidze, Sh. I. ★ Equations of motion for the new $D = 10$, $N = 1$, supergravity-Yang-Mills theory. **89f:83107**

Vasil′ev, M. A. Linearized curvatures of auxiliary fields in anti-de Sitter space. **89j:81148**

Vasilić, M. *see* **Blagojević, M.; et al., 89m:83072**

de Vega, H. J. *see* **Avan, J., 89h:58219**

Verdiev, Ǐ. A. Multiplicative integrals of representations of PSU(1, 1), SU(2) and vertex operators. **89g:22029**

Vinet, Luc *see* **Floreanini, Roberto, 89a:81090**

Vink, Jeroen C. Topological charge and fermions in the two-dimensional lattice U(1) model. II. Wilson fermions. **89k:81122**

— *see also* **Smit, Jan, 89f:81145**

Volobuev, I. P. (*with* Kubyshin, Yu. A.) Physical interpretation of solutions of the theory of spontaneous compactification. **89b:83090**

— *see also* **Kubyshin, Yu. A.; et al., 89i:83056**

Voruganti, Purushotham BRST quantization of the CP^1 model with Chern-Simons term in $2 + 1$ dimensions. **89k:81113**

Wang, Rong Tai The derivation of the regularized chiral Jacobian using the zeta function method. **89i:81085**

Wang, Xi Fu (*with* Xue, Kang) Investigation of equations for coefficient functions of the Yang-Mills field and their solutions. (Russian. English summary) **89f:81125**

Ward, R. S. Integrability of the chiral equations with torsion term. **89j:58052**

Weinstein, Marvin *see* **Nemeschansky, Dennis; et al., 89h:81077**

Weisz, P. *see* **Lüscher, M., 89e:81128**

Wheater, J. F. The instantons of surfaces in four dimensions. **89h:53134**

Windey, P. *see* **Friedan, D., 89b:58198**

Wolfengaut, J. J. *see* **Bukhbinder, I. L., 89m:81113**

Wood, W. A. *see* **Challifour, J. L., 89e:81079**

Wu, Siye *see* **Hu, He Sheng, 89b:81157**

Wu, Yong Shi^1 Anomalies in $D = 2$ field theories with (1, 0) world-sheet supersymmetry. (*see* **89h:81006**)

Xiong, Chuan Sheng (*with* Zhu, Zhong Yuan) General solutions of Wess-Zumino consistency conditions for axial-vector current divergence anomaly. **89j:81134**

Xue, Kang *see* **Wang, Xi Fu, 89f:81125**

Xue, She Sheng Stochastic fermions on the lattice. **89a:81156**

Yamada, Eiji *see* **Kawamura, Yoshiharu; et al., 89e:81105**

Yamawaki, Koichi *see* **Bando, Masako; et al., 89d:81121**

Yatsun, V. A. On quasi-self-dual fields in $N = 4$ supersymmetric Yang-Mills theory. **89d:53128**

Yau, S.-T. *see* **Hatfield, B. F., 89k:82022**

Yu, Yue An approximate solution of the SU(2) self-dual Yang-Mills field equations. (Chinese. English summary) **89a:53038**

Zamolodchikov, Aleksandr B. *see* **Knizhnik, V. G.; et al., 89i:83039**

Zandron, O. *see* **Abecasis, C.; et al., 89a:53084** *and* **Foussats, A., 89m:83093**

Zanelli, Jorge *see* **Gamboa, Jorge, 89c:81122**

Zhang, Huazhong (*with* Okubo, Susumu) Global gauge anomaly and James numbers of Stiefel manifolds. **89m:81168**

— *see also* **Okubo, Susumu; et al., 89g:53109**

Zhang, R. B. *see* **Delbourgo, R., 89k:83069**

Zhang, Yao Zhong *see* **Hou, Bo Yu, 89a:58021**

Zhizhina, E. A. Excited one-particle states of the transfer matrix of a lattice gauge Yang-Mills field with gauge group U(1). **89c:81097**

Zhou, Rong Yu *see* **Li, Jian Ling; et al., 89h:81262**

Zhou, Xian Jian *see* **Li, Jian Ling; et al., 89h:81262**

Zhu, Zhong Yuan *see* **Xiong, Chuan Sheng, 89j:81134**

Zou, Zhou SU(2) gauge symmetry and anomaly of the $S = \frac{1}{2}$ antiferromagnetic Heisenberg model in $2 + 1$ dimensions. **89j:82015**

Items listed otherwise than by author

Lecture Notes in Physics ★ Renormalization of quantum field theories with nonlinear field transformations. **89g:81058**

Renormalization of quantum field theories with nonlinear field transformations ★ Renormalization of quantum field theories with nonlinear field transformations. **89g:81058**

Tegernsee ★ Renormalization of quantum field theories with nonlinear field transformations. **89g:81058**

Workshop:

Renormalization of Quantum Field Theories with Nonlinear Field Transformations ★ Renormalization of quantum field theories with nonlinear field transformations. **89g:81058**

81E15 Renormalization theory (including perturbative, nonperturbative and renormalization group methods)

Actor, Alfred More on zeta-function regularization of high-temperature expansions. **89h:81127**

Agodi, A. (*with* Castorina, P.; Consoli, M.) Renormalization group equations and the continuum limit of some renormalizable quantum field theories. **89a:81080**

Andreev, O. D. (*with* Tseytlin, A. A.) Two-loop beta function in the open string sigma model and equivalence with string effective equations of motion. **89i:81077**

Becchi, C. (*with* Blasi, Alberto; Bonneau, Guy; Collina, R.; Delduc, F.) Renormalizability and infrared finiteness of nonlinear σ-models: a regularization-independent analysis for compact coset spaces. **89k:81085**

— (*with* Piguet, O.) On the renormalization of two-dimensional chiral models. **89m:81103**

Bender, C. M. (*with* Milton, Kimball A.; Pinsky, Stephen S.; Simmons, L. M., Jr.) A new perturbative approximation applied to supersymmetric quantum field theory. **89e:81101**

— (*with* Milton, Kimball A.; Moshe, Moshe; Pinsky, Stephen S.; Simmons, L. M., Jr.) Novel perturbative scheme in quantum field theory. **89g:81053**

Benhamou, Mabrouk (*with* Mahoux, Gilbert) Fluctuations and renormalization of a field on a boundary. **89h:81128**

Bern, Z. (*with* Halpern, M. B.) Diagrammatic methods in phase-space regularization. **89j:81121**

Blasi, Alberto *see* **Becchi, C.; et al., 89k:81085**

Bonneau, Guy Renormalization of bosonic nonlinear σ-models built on compact homogeneous manifolds. (*see* **89g:81058**)

— *see also* **Becchi, C.; et al., 89k:81085**

Bordag, M. (*with* Kaschluhn, L.) On the light-cone expansion in gauge field theories (QED). **89h:81129**

Breitenlohner, Peter $N = 2$ supersymmetric Yang-Mills theories in the Wess-Zumino gauge. (*see* **89g:81058**)

— *see also* **Renormalization of quantum field theories with nonlinear field transformations, 89g:81058**

Brydges, D. C. (*with* Wright, Jill Dianne) Mayer expansions and the Hamilton-Jacobi equation. II. Fermions, dimensional reduction formulas. **89k:81086**

Bukhbinder, I. L. (*with* Odintsov, S. D.; Shapiro, I. L.) Equations of the renormalization group and asymptotic conformal invariance in an external gravitational field. (Russian) (*see* **89d:81001**)

— (*with* Ketov, S. V.) The one-loop counterterm for the four-dimensional sigma model with higher derivatives. **89j:81122**

Cardy, John L. Continuously varying exponents and the value of the central charge. **89c:81081**

— Anisotropic corrections to correlation functions in finite-size systems. **89e:81102**

— Is there a c-theorem in four dimensions? **89k:81087**

Castorina, P. *see* **Agodi, A.; et al., 89a:81080**

Chang, Kuo Lung A gauge independent diagrammatic approach to Slavnov-Taylor identities. **89f:81116**

Chetyrkin, K. G. Multiloop calculations and the renormalization group. (Russian. English summary) (*see* **89a:81002**)

— Operator expansions in the minimal subtraction scheme. I. The gluing method. **89h:81130**

— Operator expansions in the minimal subtraction scheme. II. Explicit formulas for the coefficients of functions. **89m:81104**

— *see also* **Smirnov, Vladimir Aleksandrovich**^{3}, **89i:81084**

Chimento, Luis P. (*with* Jakubi, Alejandro S.) How to get Casimir effect and trace anomaly results without use of regularization. **89e:81103**

Clark, T. E. (*with* Love, S. T.) Supersymmetric chiral normal coordinates. **89g:81054**

Collina, R. *see* **Becchi, C.; et al., 89k:81085**

Collins, John C. ★ Перенормировка. (Russian) [Renormalization] **89d:81072**

Consoli, M. *see* **Agodi, A.; et al., 89a:81080**

Cristofano, G. (*with* Musto, R.; Nicodemi, F.; Pettorino, R.) The multiloop covariant tadpole operator and amplitudes for the bosonic string. **89j:81123**

Dai, Yuan Ben (*with* Xiong, Chuan Sheng; Zhao, Wei Dong) On stochastic quantization of Witten's field theory of interacting string. **89h:81131**

Delduc, F. *see* **Becchi, C.; et al., 89k:81085**

Dine, Michael Renormalization and nonrenormalization in string theory. (*see* **89a:81005**)

Egoryan, Èd. Sh. (*with* Nissimov, E.; Pacheva, S.) Anomalies in even- and odd-dimensional spaces in a stochastic quantization scheme. (Russian. English summary) **89d:81073**

— (*with* Manvelyan, R. P.) A new method for supersymmetric and gauge-invariant regularization. **89f:81117**

Ellwanger, U. (*with* Fuchs, Jürgen) String field equations and the dual S-matrix from the exact renormalization group. **89k:81088**

— (*with* Fuchs, Jürgen; Schmidt, Michael G.) The heterotic σ-model with background gauge fields. **89m:81105**

Fan, Hong Yi *see* **Ruan, Tu Nan; et al., 89m:81112**

Foakes, A. P. (*with* Mohammedi, N.; Ross, Douglas A.) Effective action and β-functions for the heterotic string. **89b:81148**

Fradkin, E. S. (*with* Pal′chik, M. Ya.) Closed set of equations for Green functions in conformal invariant quantum field theory. (*see* **89m:81002**)

Fuchs, Jürgen *see* **Ellwanger, U., 89k:81088** *and* **89m:81105**

Fujiwara, Takanori (*with* Ohnuki, Yoshio) Anomalies and Weyl modes in chiral gauge theories. **89e:81104**

Gallavotti, Giovanni Renormalization theory and group in mathematical physics. **89d:81074**

Gawędzki, K. Renormalization: from magic to mathematics. **89d:81075**

Getmanov, B. S. (*with* Kovtun, V. E.) ★ Классификация интегрируемых двумерных моделей релятивистской теории поля с помощью компьютера. (Russian) [Classification of integrable two-dimensional models of relativistic field theory by means of a computer] (Not in MR)

Gracey, J. A. Nonperturbative effects in the exact S-matrices of the $O(N)$ Gross-Neveu and supersymmetric σ models. **89j:81124**

Greensite, J. (*with* Klinkhamer, F. R.) Superstring amplitudes and contact interactions. **89e:81106**

Grignani, G. (*with* Mintchev, M.) The effect of gauge and Lorentz anomalies on the beta functions of heterotic sigma models. **89e:81107**

— (*with* Mintchev, M.) Renormalization and conformal properties of σ models on Riemannian space with torsion. **89k:81089**

Grisaru, Marcus T. (*with* Nishino, Hitoshi; Zanon, D.) β-function approach to the Green-Schwarz superstring. **89k:81090**

Gross, David J. (*with* Periwal, Vipul) String perturbation theory diverges. **89f:81118**

Guadagnini, E. Beta-function computation without the use of normal coordinates. **89h:81132**

Halpern, M. B. Coordinate-invariant regularization. **89g:81055**

— *see also* **Bern, Z., 89j:81121**

Harada, Koji (*with* Tsutsui, Izumi) Operator solutions of the bosonized chiral Schwinger model. **89j:81125**

Henderson, Jenny Aline *see* **Jarvis, P. D., 89e:81109**

Hořejší, J. (*with* Novotný, J.; Zav′yalov, O. I.) Dimensional regularization of the VVA triangle graph as a continuous superposition of Pauli-Villars regularizations. **89i:81078**

Hosono, Shinobu (*with* Seo, Koichi) Current commutator anomalies and chiral anomalies in the canonical formalism. **89h:81133**

Howe, P. S. (*with* Papadopoulos, G.; Stelle, K. S.) The background field method and the nonlinear σ-model. **89e:81108**

Hughes, James (*with* Liu, Jun^2) β-functions and the exact renormalization group. **89f:81119**

Hurd, T. R. Renormalization of massless quantum electrodynamics. (*see* **89g:81002**)

— A power counting formula for short distance singularities in quantum field theory. **89h:81134**

Ivashchuk, V. D. Regularization of an ε-metric. I. (Russian) **89j:81126**

Jack, I. (*with* Jones, D. R. T.; Ross, Douglas A.) On the relationship between string low-energy effective actions and $O(\alpha'^3)$ σ-model β-functions. **89g:81056**

Jackiw, R. Functional representations for quantized fields. **89h:81135**

Jakubi, Alejandro S. *see* **Chimento, Luis P., 89e:81103**

Jarvis, P. D. (*with* Henderson, Jenny Aline) Coset space dimensional reduction and one-loop corrections. **89e:81109**

Jing, Si Cong *see* **Ruan, Tu Nan; et al., 89m:81112**

Joglekar, Satish D. (*with* Misra, Anuradha) A uniqueness theorem regarding $\theta_{\mu\nu}$ in scalar theories. **89h:81136**

Jones, D. R. T. *see* **Jack, I.; et al., 89g:81056**

Kallosh, R. (*with* Morozov, A. Yu.) Renormalization theorems for heterotic strings. **89j:81127**

Kaschluhn, L. *see* **Bordag, M., 89h:81129**

Kawamura, Yoshiharu (*with* Suzuki, Tsuneo; Yamada, Eiji) A comment on a new interpretation of the chiral anomaly. **89e:81105**

Kazakov, D. I. A generalization of the renormalization group equations for quantum field theories of arbitrary type. **89e:81110**

Ketov, S. V. Three-loop finiteness of the two-dimensional supersymmetric nonlinear σ-models on generalized Ricci-flat manifolds with torsion. **89m:81106**

— Equations of the renormalization group for a two-dimensional nonlinear sigma model with torsion. **89j:81128**

— *see also* **Bukhbinder, I. L., 89j:81122**

Kiselev, V. G. (*with* Selivanov, K. G.) Quantum correction to the monopole mass. **89i:81079**

Klebanov, Igor (*with* Susskind, Leonard) Renormalization group and string amplitudes. **89b:81149**

Klinkhamer, F. R. *see* **Greensite, J., 89e:81106**

Kogan, Ya. I. (*with* Morozov, A. Yu.; Perelomov, A. M.) Finiteness of $N = 4$ supersymmetric sigma models. **89f:81120**

Konoplich, R. V. Calculation of quantum corrections to nontrivial classical solutions by means of the zeta function. (Russian. English summary) **89i:81080**

Kovtun, V. E. *see* **Getmanov, B. S.**, (Not in MR)

Krasnikov, N. V. Infinite component field theory as a key to the solution of the gauge hierarchy problem. **89j:81129**

Kummer, W. (*with* Mistelberger, H.; Schaller, P.; Schweda, M.) Renormalization of Yang-Mills superfields in noncovariant supergauges. **89i:81081**

Landsman, N. P. Hilbert space and propagator in thermal field theory. **89k:81091**

Leblanc, Yvan Improved integral representation for the finite-temperature propagator in string theory. **89k:81092**

Leibbrandt, George A general prescription for three prominent noncovariant gauges. **89m:81107**

Link, Robert (*with* Roberge, A.; Semenoff, Gordon W.) Lorentz invariant exact solution of the anomalous chiral Schwinger model. **89i:81082**

Liu, Jun^2 *see* **Hughes, James, 89f:81119**

Love, S. T. *see* **Clark, T. E., 89g:81054**

Lucchesi, Claudio (*with* Piguet, O.; Sibold, K.) Vanishing β-functions in $N = 1$ supersymmetric gauge theories. **89m:81108**

Mahoux, Gilbert *see* **Benhamou, Mabrouk, 89h:81128**

Maĭer, I. O. Borel summation of divergent series in quantum field theory, and Wynn's ε-algorithm. **89f:81121**

(Maison, Dieter) *see* **Renormalization of quantum field theories with nonlinear field transformations, 89g:81058**

Makeenko, Yu. M. Renormalization group in lattice gauge theories. (Russian. English summary) (*see* **89a:81002**)

Mann, R. B. Regularization dependence of the superstring anomaly graph. **89f:81122**

Manoukian, Edward B. On the absence of logarithmic growths in mass parameters in renormalized perturbation theory. II. Generalized conditions. **89f:81123**

Manvelyan, R. P. *see* **Egoryan, Èd. Sh., 89f:81117**

McCartor, G. Perturbation calculations for infrared divergent problems. II. $(1+1)$-dimensional field theories. **89a:81081**

Metsaev, R. R. (*with* Tseytlin, A. A.) Effective equations in string theory and conditions for conformal invariance of the two-dimensional σ model: test of the equivalence hypothesis. **89k:81093**

Milton, Kimball A. *see* **Bender, C. M.; et al., 89e:81101** *and* **89g:81053**

Mintchev, M. *see* **Grignani, G., 89e:81107** *and* **89k:81089**

Misra, Anuradha *see* **Joglekar, Satish D., 89h:81136**

Mistelberger, H. *see* **Kummer, W.; et al., 89i:81081**

Mitter, P. K. (*with* Ramadas, T. R.) The two-dimensional $O(n)$ nonlinear σ-model from a Wilson renormalization group viewpoint. (*see* **89g:81058**)

Mohammedi, N. *see* **Foakes, A. P.; et al., 89b:81148**

Moore, Gregory W. (*with* Morozov, A. Yu.) Some remarks on two-loop superstring calculations. **89m:81109**

Morozov, A. Yu. *see* **Kogan, Ya. I.; et al., 89f:81120; Kallosh, R., 89j:81127** *and* **Moore, Gregory W., 89m:81109**

Moshe, Moshe *see* **Bender, C. M.; et al., 89g:81053**

Musto, R. *see* **Cristofano, G.; et al., 89j:81123**

Nakazawa, Naohito *see* **Soda, Jiro; et al., 89b:81150**

Nicodemi, F. *see* **Cristofano, G.; et al., 89j:81123**

Nishino, Hitoshi *see* **Grisaru, Marcus T.; et al., 89k:81090**

Nissimov, E. (*with* Pacheva, S.) Nonperturbative inconsistency of stochastic quantization in odd dimensions. **89d:81076**

— *see also* **Egoryan, Èd. Sh.; et al., 89d:81073**

Novotný, J. *see* **Hořejší, J.; et al., 89i:81078**

Obukhov, Yu. N. (*with* Pronin, P. I.) Renormalization of gauge field theories in Riemann-Cartan space-time. I. Abelian models. **89m:81110**

Odintsov, S. D. *see* **Bukhbinder, I. L.; et al.**, (**89d:81001**)

Ohnuki, Yoshio *see* **Fujiwara, Takanori, 89e:81104**

Ojima, Shuichi *see* **Soda, Jiro; et al., 89b:81150**

Okano, Keisuke (*with* Schülke, Lothar) Renormalization and renormalization group behaviour of the $O(N)$ nonlinear sigma-model in stochastic quantization. **89e:81111**

Osborn, Hugh Renormalisation and composite operators in nonlinear σ models. **89h:81137**

— Renormalisation group and two-point functions in bosonic σ models. **89k:81094**

Paban, Sònia (*with* Tarrach, R.) A chance for interaction in $\lambda\varphi^4_{3+1}$, $\lambda > 0$. **89g:81057**

Pacheva, S. *see* **Egoryan, Èd. Sh.; et al., 89d:81073** *and* **Nissimov, E., 89d:81076**

Pal′chik, M. Ya. (*with* Zaĭkin, V. N.) Calculation of critical indices in N-component $\lambda\varphi^4_3$-model by the methods of conformal field theory. **89f:81124**

— *see also* **Fradkin, E. S.**, (**89m:81002**)

Papadopoulos, G. *see* **Howe, P. S.; et al., 89e:81108**

Perelomov, A. M. *see* **Kogan, Ya. I.; et al., 89f:81120**

Periwal, Vipul *see* **Gross, David J., 89f:81118**

Pettorino, R. *see* **Cristofano, G.; et al., 89j:81123**

Piguet, O. Superspace renormalization of $N = 1$, $d = 4$ supersymmetric gauge theories. (*see* **89g:81058**)

— (*with* Schweda, M.; Skarke, H.) Extended BRS symmetry in non-light-cone and light-cone gauges. **89j:81130**

— *see also* **Becchi, C., 89m:81103** *and* **Lucchesi, Claudio; et al., 89m:81108**

Pinsky, Stephen S. (*with* Simmons, L. M., Jr.) Feynman rules for the δ expansion. **89j:81131**

— *see also* **Bender, C. M.; et al., 89e:81101** *and* **89g:81053**

Pronin, P. I. *see* **Obukhov, Yu. N., 89m:81110**

Ramadas, T. R. *see* **Mitter, P. K.**, (**89g:81058**)

Reisz, Thomas Renormalization of Feynman integrals on the lattice. **89i:81083**

— Renormalization of lattice Feynman integrals with massless propagators. **89m:81111**

Roberge, A. *see* **Link, Robert; et al., 89i:81082**

Ross, Douglas A. Renormalization group invariance in the presence of an instanton. (Russian summary) (*see* **89a:81002**)

— *see also* **Foakes, A. P.; et al., 89b:81148** *and* **Jack, I.; et al., 89g:81056**

Rozhanskiĭ, L. V. (*with* Tseytlin, A. A.) Consistency between the S-matrix and the sigma-model approaches to the closed string effective action on the disc. **89j:81132**

Ruan, Tu Nan (*with* Jing, Si Cong; Fan, Hong Yi) A regularization scheme for obtaining Bardeen anomaly. **89m:81112**

Sadun, L. Continuum regularization of quantum field theory. V. Schwinger-Dyson renormalization. **89a:81082**

Sakai, Kenji *see* **Soda, Jiro; et al., 89b:81150**

Sasaki, Ryu Dispersion approach to field theories—Nishijima's reformulation of quantum field theories without dealing with divergent quantities. (*see* **89m:81002**)

Schaller, P. *see* **Kummer, W.; et al., 89i:81081**

Schmidt, Michael G. *see* **Ellwanger, U.; et al., 89m:81105**

Schülke, Lothar *see* **Okano, Keisuke, 89e:81111**

Schweda, M. *see* **Kummer, W.; et al., 89i:81081** *and* **Piguet, O.; et al., 89j:81130**

Seiberg, Nathan Supersymmetry and nonperturbative beta functions. **89k:81095**

Selivanov, K. G. *see* **Kiselev, V. G., 89i:81079**

Semenoff, Gordon W. *see* **Link, Robert; et al., 89i:81082**

Seo, Koichi *see* **Hosono, Shinobu, 89h:81133**

Shapiro, I. L. *see* **Bukhbinder, I. L.; et al., (89d:81001)**

Shirkov, D. V. Renormalization group in modern physics. (Russian. English summary) (*see* **89a:81002**)

Sibold, K. *see* **Lucchesi, Claudio; et al., 89m:81108** *and* **Renormalization of quantum field theories with nonlinear field transformations, 89g:81058**

Simmons, L. M., Jr. *see* **Bender, C. M.; et al., 89e:81101; 89g:81053** *and* **Pinsky, Stephen S., 89j:81131**

Skarke, H. *see* **Piguet, O.; et al., 89j:81130**

Smirnov, Vladimir Aleksandrovich[3] (*with* Chetyrkin, K. G.) ★ **R***-операция: техника ренормгрупповых вычислений и другие приложения. (Russian) [**R***-operation: techniques for renormalization-group calculations and other applications] **89i:81084**

— *see also* **Collins, John C., 89d:81072**

Soda, Jiro (*with* Nakazawa, Naohito; Sakai, Kenji; Ojima, Shuichi) Comment on the nonrenormalization theorem in the four-dimensional superstrings. **89b:81150**

Stelle, K. S. Nonlinear field renormalizations in the background field method. (*see* **89g:81058**)

— *see also* **Howe, P. S.; et al., 89e:81108**

Stora, R. Remarks on Slavnov symmetries. (*see* **89g:81058**)

Susskind, Leonard *see* **Klebanov, Igor, 89b:81149**

Suzuki, Tsuneo *see* **Kawamura, Yoshiharu; et al., 89e:81105**

Svozil, Karl Quantum field theory on fractal spacetime: a new regularisation method. **89b:81151**

Tarrach, R. *see* **Paban, Sònia, 89g:81057**

Tseytlin, A. A. *see* **Andreev, O. D., 89i:81077; Rozhanskiĭ, L. V., 89j:81132** *and* **Metsaev, R. R., 89k:81093**

Tsutsui, Izumi *see* **Harada, Koji, 89j:81125**

Vasil′ev, A. N. Quantum field renormalization group in the theory of turbulence and magnetohydrodynamics. (Russian. English summary) (*see* **89a:81002**)

Wang, Rong Tai The derivation of the regularized chiral Jacobian using the zeta function method. **89i:81085**

Wang, Xi Fu (*with* Xue, Kang) Investigation of equations for coefficient functions of the Yang-Mills field and their solutions. (Russian. English summary) **89f:81125**

West, Peter The regulation of supersymmetric theories and anomalies in the supercurrent. **89e:81112**

Wightman, A. S. φ_ν^4 and generalized Borel summability. **89j:81133**

Wright, Jill Dianne *see* **Brydges, D. C., 89k:81086**

Xiong, Chuan Sheng (*with* Zhu, Zhong Yuan) General solutions of Wess-Zumino consistency conditions for axial-vector current divergence anomaly. **89j:81134**

— *see also* **Dai, Yuan Ben; et al., 89h:81131**

Xue, Kang *see* **Wang, Xi Fu, 89f:81125**

Yamada, Eiji *see* **Kawamura, Yoshiharu; et al., 89e:81105**

Yotsuyanagi, I. New perturbative approximation applied to a self-interacting scalar field theory. **89k:81096**

Zaĭkin, V. N. *see* **Pal′chik, M. Ya., 89f:81124**

Zamolodchikov, Aleksandr B. Renormalization group and perturbation theory about fixed points in two-dimensional field theory. **89h:81138**

Zanon, D. *see* **Grisaru, Marcus T.; et al., 89k:81090**

Zav′yalov, O. I. *see* **Hořejší, J.; et al., 89i:81078** *and* **Collins, John C., 89d:81072**

Zhao, Wei Dong *see* **Dai, Yuan Ben; et al., 89h:81131**

Zhu, Zhong Yuan *see* **Xiong, Chuan Sheng, 89j:81134**

Zimmermann, Wolfhart Applications of the reduction method. (Russian summary) **89h:81139**

— Composite field operators in quantum field theory. (*see* **89m:81002**)

Zwiebach, Barton A note on covariant Feynman rules for closed strings. **89h:81140**

Items listed otherwise than by author

Lecture Notes in Physics ★ Renormalization of quantum field theories with nonlinear field transformations. **89g:81058**

Renormalization of quantum field theories with nonlinear field transformations ★ Renormalization of quantum field theories with nonlinear field transformations. **89g:81058**

Tegernsee ★ Renormalization of quantum field theories with nonlinear field transformations. **89g:81058**

Workshop:

Renormalization of Quantum Field Theories with Nonlinear Field Transformations ★ Renormalization of quantum field theories with nonlinear field transformations. **89g:81058**

Items with secondary classifications in 81E15

Abdalla, E. (*with* Lima Santos, A.) Bound state solution of the Grassmannian nonlinear sigma model with fermions. **89f:81092**

Actor, Alfred Conventional zeta-function derivation of high-temperature expansions. **89d:82024**

— One-loop Feynman diagram zeta functions for toroidal spacetime. **89k:81097**

Amati, D. (*with* Konishi, Kenichi; Meurice, Y.; Rossi, G. C.; Veneziano, G.) Nonperturbative aspects in supersymmetric gauge theories. **89j:81094**

Appelquist, Thomas (*with* Nash, Daniel; Wijewardhana, L. C. R.) Critical behavior in $(2+1)$-dimensional QED. **89c:81225**

Aranson, I. S. (*with* Rabinovich, M. I.) Renormalization group description of spatial turbulence development. (Russian. English summary) (*see* **89a:81002**)

Arimitsu, T. (*with* Guida, M.; Umezawa, H.) Dissipative quantum field theory. Thermo field dynamics. **89f:81155**

Asorey, Manuel (*with* Falceto, Fernando) Geometric regularization of Yang-Mills theory. **89e:81086**

Atkinson, D. (*with* Johnson, P. W.; Stam, K.) Chiral symmetry breaking beyond the Landau gauge. **89a:81058**

Bałaban, Tadeusz Ultraviolet stability problems in quantum field theories. **89d:81054**

— Renormalization group approach to lattice gauge field theories. II. Cluster expansions. **89h:81150**

Bassetto, A. (*with* Soldati, R.) Limit properties of Feynman integrals in noncovariant algebraic gauges. **89d:81036**

Bellucci, Stefano Stress-tensor anomaly and boundary conditions of anti-de Sitter supersymmetry. **89a:81084**

— (*with* González, J.) Boundary conditions and renormalization in anti-de Sitter supersymmetry. **89e:81113**

Blasi, Alberto (*with* Collina, R.) Stability of nonlinear homogeneous σ models. **89a:81061**

Bukhbinder, I. L. (*with* Odintsov, S. D.; Shapiro, I. L.) Equations of the renormalization group and effective potential in curved space-time. (Russian) (*see* **89d:81001**)

— (*with* Wolfengaut, J. J.) Renormalisation group equations and effective action in curved spacetime. **89m:81113**

Cardy, John L. Central charge and universal combinations of amplitudes in two-dimensional theories away from criticality. **89f:82016**

Chang, Lay-Nam (*with* Chang, Ngee-Pong) Renormalisation programme and dynamical symmetry breaking. (*see* **89b:81008**)

Chang, Ngee-Pong *see* **Chang, Lay-Nam, (89b:81008)**

Collina, R. *see* **Blasi, Alberto, 89a:81061**

David, François Louis (*with* Feldman, Joel S.; Rivasseau, V.) On the large order behavior of φ_4^4. **89e:81080**

Davis, A. C. (*with* Mayger, E. M.) Nonperturbative effects in the CP^N model. **89m:81091**

(Delbourgo, R.) *see* **Kubo, Jisuke, 89e:81180** *and* **Kosiński, P., 89e:81181**

Der, R. (*with* Schumacher, W.) Operator cumulant expansions for colored noise problems: a resummation procedure. **89k:82039**

Dorn, H. (*with* Otto, H.-J.) On the energy-momentum tensor in nonlinear σ-models with torsion. **89b:81124**

Dosch, H. G. (*with* Simonov, Yu. A.) The area law of the Wilson loop and vacuum field correlators. **89f:81245**

Elizalde, E. (*with* Tarrach, R.) Interacting $\lambda\varphi^4$ on a Schwarzschild background metric. (Italian and Russian summaries) **89i:81088**

Falceto, Fernando *see* **Asorey, Manuel, 89e:81086**

Federbush, Paul A phase cell approach to Yang-Mills theory. IV. The choice of variables. **89f:81090**

Feldman, Joel S. (*with* Magnen, J.; Rivasseau, V.; Sénéor, Roland) Infra-red Φ_4^4. **89e:81081**

— (*with* Magnen, J.; Rivasseau, V.; Sénéor, Roland) Construction and Borel summability of infrared Φ_4^4 by a phase space expansion. **89a:81052**

— The large order behaviour of Φ^4 perturbation theory. (*see* **89g:81002**)

— *see also* **David, François Louis; et al., 89e:81080**

Foakes, A. P. (*with* Mohammedi, N.; Ross, Douglas A.) Three-loop β-functions for the superstring and heterotic string. **89j:81178**

Freedman, Daniel Z. (*with* Ginsparg, P.; Sommerfield, C. M.; Warner, N. P.) String-ghost interactions and the trace anomaly. **89a:81128**

Furnstahl, R. J. (*with* Serot, Brian D.) Lattice regularization of quantum partition functions. **89f:81143**

Gaigg, P. *see* **Skarke, H.**, (Not in MR)

Ginsparg, P. *see* **Freedman, Daniel Z.; et al., 89a:81128**

González, J. *see* **Bellucci, Stefano, 89e:81113**

Grammaticos, Basile (*with* Ramani, Alfred) Linéarisation et (non)-intégrabilité des équations de Yang-Mills. (English summary) [Linearization and (non)integrability of the Yang-Mills equations] **89j:58046**

Grib, A. A. (*with* Nesteruk, A. V.) Quantum effects and elimination of the conformal anomaly in anisotropic space-time. **89j:81141**

Grisaru, Marcus T. Sigma-model beta-functions. **89f:81178**

— (*with* Nishino, Hitoshi; Zanon, D.) β-functions for the Green-Schwarz superstring. **89k:81145**

Guadagnini, E. (*with* Martellini, M.; Mintchev, M.) Scale invariant sigma models on homogeneous spaces. **89a:81092**

Guida, M. *see* **Arimitsu, T.; et al., 89f:81155**

Helminck, Gerard Deformations of connections, the Riemann Hilbert problem and τ-functions. **89f:58068**

Horn, David (*with* Langeveld, W. G. J.; Quinn, H. R.; Weinstein, Marvin) Operator renormalization group. **89j:81005**

Huq, M. On covariant quantization of massive superparticle. **89m:81145**

Ito, Keiichi R. Renormalization group methods on hierarchical lattices and beyond. **89i:81100**

Itoh, Toshiharu *see* **Odaka, Kazuhiko, 89k:81109**

Jack, I. (*with* Jones, D. R. T.) Dilaton dependence of the two-loop effective action. **89a:81135**

Jasnow, David Renormalization group theory of interfaces. **89d:82040**

Jing, Si Cong *see* **Ruan, Tu Nan, 89i:81127**

Johnson, P. W. *see* **Atkinson, D.; et al., 89a:81058**

Jones, D. R. T. *see* **Jack, I., 89a:81135**

Kaku, Michio Generally covariant lattices, the random calculus, and the strong coupling approach to the renormalisation of gravity. **89k:83052**

(Kazakov, D. I.) *see* **Conference: Renormalization Group, 89a:81002** *and* **Renormalization group, 89k:82003**

Keiter, H. F. G. Simple applications of generalized functions in theoretical physics: the case of many-body perturbation expansions. (*see* **89i:00025**)

Ketov, S. V. (*with* Tyutin, I. V.) Self-action for $N = 2$ multiplets in $d = 4$ and the ultraviolet finiteness of two-dimensional $N = 4$ σ-models. (Russian) (*see* **89d:81001**)
Kirzhnits, D. A. On the "Moscow-zero" problem. **89h:81281**
Kleinert, H. (*with* Miller, Wolfram) Renormalization of charge due to magnetic monopoles in the Villain form of U(1) lattice gauge theory. **89h:81108**
Knizhnik, V. G. (*with* Polyakov, A. M.; Zamolodchikov, Aleksandr B.) Fractal structure of 2D-quantum gravity. **89i:83039**
Konishi, Kenichi *see* **Amati, D.; et al., 89j:81094**
Kosiński, P. (*with* Szymanowski, Lech) Comment on: "Massive, unitary, renormalizable Yang-Mills theory without Higgs bosons" [Phys. Rev. Lett. **57** (1986), no. 21, 2610–2612; MR 87k:81156] by R. Delbourgo and G. Thompson. **89e:81181**
Kubo, Jisuke Comment on: "Massive, unitary, renormalizable Yang-Mills theory without Higgs bosons" [Phys. Rev. Lett. **57** (1986), no. 21, 2610–2612; MR 87k:81156] by R. Delbourgo and G. Thompson. **89e:81180**
Kupiainen, A. Quantum field theory without cutoffs: renormalizable and nonrenormalizable. **89b:81106**
Langeveld, W. G. J. *see* **Horn, David; et al., 89j:81005**
Lerche, W. (*with* Nilsson, B. E. W.; Schellekens, A. N.) Covariant lattices, superconformal invariance and strings. **89e:81159**
Lhallabi, T. Anomalies of BRS and anti-BRS Ward-identities in $N = 1$ supersymmetric theory. **89j:81104**
Lima Santos, A. *see* **Abdalla, E., 89f:81092**
Lucchesi, Claudio (*with* Piguet, O.; Sibold, K.) Necessary and sufficient conditions for all order vanishing β-functions in supersymmetric Yang-Mills theories. **89d:81062a**
— (*with* Piguet, O.; Sibold, K.) Erratum: "Necessary and sufficient conditions for all order vanishing β-functions in supersymmetric Yang-Mills theories". **89d:81062b**
Maeno, Masahiro (*with* Sawada, Shiro) String field theory in curved space: a nonlinear σ-model analysis. **89m:81115**
Magnen, J. *see* **Feldman, Joel S.; et al., 89a:81052** *and* **89e:81081**
Malyshev, V. A. ★ Введение в евклидову квантовую теорию поля. (Russian) [Introduction to Euclidean quantum field theory] **89e:81083**
Martellini, M. *see* **Guadagnini, E.; et al., 89a:81092**
Matyjasek, Jerzy $\langle\varphi^2\rangle_{\mathrm{REG}}$ in Schwarzschild-de Sitter spacetime. **89i:81095**
Mayger, E. M. *see* **Davis, A. C., 89m:81091**
Meurice, Y. *see* **Amati, D.; et al., 89j:81094**
Miller, Wolfram *see* **Kleinert, H., 89h:81108**
Mintchev, M. *see* **Guadagnini, E.; et al., 89a:81092**
Mohammedi, N. *see* **Foakes, A. P.; et al., 89j:81178**
Nash, Daniel *see* **Appelquist, Thomas; et al., 89c:81225**
Nesteruk, A. V. *see* **Grib, A. A., 89j:81141**
Ni, Guang Jiong *see* **Wang, Rong Tai, 89f:81220**
Nilsson, B. E. W. *see* **Lerche, W.; et al., 89e:81159**
Nishijima, Kazuhiko Some identities in quantum electrodynamics. **89m:81214**
Nishino, Hitoshi *see* **Grisaru, Marcus T.; et al., 89k:81145**
Odaka, Kazuhiko (*with* Itoh, Toshiharu) Particle picture in external fields, quantum holonomy, and gauge anomaly. **89k:81109**
Odintsov, S. D. *see* **Bukhbinder, I. L.; et al., (89d:81001)**
Okada, Yasuhiro (*with* Ubriaco, Marcelo R.) Renormalization of $O(N)$ nonlinear σ model on a p-adic field. **89i:81074**
Otto, H.-J. *see* **Dorn, H., 89b:81124**
Parker, Leonard (*with* Toms, David J.) Renormalisation group methods in curved space-time. (*see* **89b:81008**)
Piguet, O. *see* **Lucchesi, Claudio; et al., 89d:81062a** *and* **89d:81062b**
Pokorski, S. ★ Gauge field theories. **89c:81003**
Polyakov, A. M. *see* **Knizhnik, V. G.; et al., 89i:83039**
Pruisken, Adrianus M. M. Quasiparticles in the theory of the integral quantum Hall effect. II. Renormalization of the Hall conductance or instanton angle theta. **89h:81121**
Pugnetti, Sergio Renormalization group equations in the stochastic quantization scheme. **89f:81052**
Quinn, H. R. *see* **Horn, David; et al., 89j:81005**
Rabinovich, M. I. *see* **Aranson, I. S., (89a:81002)**
Ramani, Alfred *see* **Grammaticos, Basile, 89j:58046**
Redlich, A. N. BRST string field theory from Wilson's renormalization group. **89i:81126**
Reisz, Thomas A power counting theorem for Feynman integrals on the lattice. **89g:81062**
Rivasseau, V. *see* **Feldman, Joel S.; et al., 89a:81052; David, François Louis; et al., 89e:81080** *and* **Feldman, Joel S.; et al., 89e:81081**
Ross, Douglas A. *see* **Foakes, A. P.; et al., 89j:81178**
Rossi, G. C. *see* **Amati, D.; et al., 89j:81094**
Roy Chowdhury, A. *see* **Sidhanta, B., 89a:81152**
Ruan, Tu Nan (*with* Jing, Si Cong) Joint invariance of generating functional and chiral anomalous term in gauge theory. **89i:81127**
Sawada, Shiro *see* **Maeno, Masahiro, 89m:81115**
Schellekens, A. N. *see* **Lerche, W.; et al., 89e:81159**
Schumacher, W. *see* **Der, R., 89k:82039**
Sénéor, Roland *see* **Feldman, Joel S.; et al., 89a:81052** *and* **89e:81081**
Serot, Brian D. *see* **Furnstahl, R. J., 89f:81143**
Shapiro, I. L. *see* **Bukhbinder, I. L.; et al., (89d:81001)**
Shevchenko, O. Yu. *see* **Skachkov, N. B.; et al., 89b:81272**
(Shirkov, D. V.) *see* **Conference: Renormalization Group, 89a:81002** *and* **Renormalization group, 89k:82003**
Sibold, K. *see* **Lucchesi, Claudio; et al., 89d:81062a** *and* **89d:81062b**
Sidhanta, B. (*with* Roy Chowdhury, A.) Some perturbative and nonperturbative results exposing certain field aspects of Reggeon field theory. **89a:81152**
Simonov, Yu. A. *see* **Dosch, H. G., 89f:81245**
Skachkov, N. B. (*with* Solovtsov, I. L.; Shevchenko, O. Yu.) Infrared asymptotics of a gauge-invariant propagator in quantum electrodynamics. (Russian. English summary) **89b:81272**
Skarke, H. (*with* Gaigg, P.) Multiloop integrals, counterterms, and renormalization of Yang-Mills theories in the light-cone gauge. (Not in MR)
Smolin, Lee Quantum gravity in the self-dual representation. **89h:83024**
Soldati, R. *see* **Bassetto, A., 89d:81036**
Solovtsov, I. L. *see* **Skachkov, N. B.; et al., 89b:81272**
Sommerfield, C. M. *see* **Freedman, Daniel Z.; et al., 89a:81128**
Stam, K. *see* **Atkinson, D.; et al., 89a:81058**
Strominger, Andrew Point splitting regularization of classical string field theory. **89b:81108**
Szymanowski, Lech *see* **Kosiński, P., 89e:81181**
Tarrach, R. *see* **Elizalde, E., 89i:81088**
(Thompson, George) *see* **Kubo, Jisuke, 89e:81180** *and* **Kosiński, P., 89e:81181**
Tomboulis, E. T. On unitarity in renormalisable $\mathrm{R}^2_{\mu\nu}$ quantum gravity. (*see* **89b:81008**)
Toms, David J. *see* **Parker, Leonard, (89b:81008)**
Trivedi, Anil K. Evidence of ultraviolet divergence on the lattice. **89h:81155**
Tseytlin, A. A. Sigma-model Weyl invariance conditions and string equations of motion. **89e:81122**
Tyutin, I. V. *see* **Ketov, S. V., (89d:81001)**
Ubriaco, Marcelo R. *see* **Okada, Yasuhiro, 89i:81074**
Umezawa, H. *see* **Arimitsu, T.; et al., 89f:81155**
Veneziano, G. *see* **Amati, D.; et al., 89j:81094**
(Vladimirov, A. A.) *see* **Conference: Renormalization Group, 89a:81002** *and* **Renormalization group, 89k:82003**
Wang, Rong Tai (*with* Ni, Guang Jiong) A new formulation of the path integral method for the chiral anomaly. **89f:81220**
Warner, N. P. *see* **Freedman, Daniel Z.; et al., 89a:81128**
Weinstein, Marvin *see* **Horn, David; et al., 89j:81005**
Wijewardhana, L. C. R. *see* **Appelquist, Thomas; et al., 89c:81225**
Wolfengaut, J. J. *see* **Bukhbinder, I. L., 89m:81113**
Zamolodchikov, Aleksandr B. *see* **Knizhnik, V. G.; et al., 89i:83039**
Zanon, D. *see* **Grisaru, Marcus T.; et al., 89k:81145**
Zinn-Justin, J. (*with* Zwanziger, Daniel) Ward identities for the stochastic quantization of gauge fields. **89j:81119**
Zwanziger, Daniel *see* **Zinn-Justin, J., 89j:81119**

Items listed otherwise than by author

Conference:
  Renormalization Group ★ Совещание "Ренормгруппа—86". (Russian) [Conference "Renormalization Group—86"] **89a:81002**
  Renormalization Group—86 ★ Renormalization group. **89k:82003**
Dubna ★ Совещание "Ренормгруппа—86". (Russian) [Conference "Renormalization Group—86"] **89a:81002**
— ★ Renormalization group. **89k:82003**
Renormalization group ★ Renormalization group. **89k:82003**

81E20 Field theory on curved space backgrounds [see also 83C47]

Actor, Alfred One-loop Feynman diagram zeta functions for toroidal spacetime. **89k:81097**
Allen, Bruce *see* **Pathinayake, Chandra; et al., 89b:81160**
de Almeida da Silva, M. A. (*with* Barcelos-Neto, J.; Braga, N. R. F.) Canonical quantization of the σ-model with torsion in superspace. **89f:81126**
Antoine, J.-P. (*with* Piette, B.) Solutions of Euclidean σ models on noncompact Grassmann manifolds. **89f:81127**
Barcelos-Neto, J. *see* **de Almeida da Silva, M. A.; et al., 89f:81126**
Bars, Itzhak (*with* Pope, C. N.; Sezgin, E.) Massless spectrum and critical dimension of the supermembrane. **89b:81152**
Barut, A. O. (*with* Pavšič, Matej) Kaluza-Klein approach to the classical model of the Dirac electron. **89j:81135**
Bellucci, Stefano Stress-tensor anomaly and boundary conditions of anti-de Sitter supersymmetry. **89a:81084**
— (*with* González, J.) Boundary conditions and renormalization in anti-de Sitter supersymmetry. **89e:81113**
Bergshoeff, Eric (*with* Salam, A.; Sezgin, E.; Tanii, Yoshiaki) $N = 8$ supersingleton quantum field theory. **89j:81136**
Bershadskiĭ, M. A. The superbranch points and two-loop correction in the heterotic string theory. **89f:81128**
Blau, Steven K. (*with* Visser, Matt; Wipf, Andreas) Determinants of conformal wave operators in four dimensions. **89i:81086**
Bonora, L. (*with* Cotta-Ramusino, P.; Rinaldi, M.) Generalized Wess-Zumino terms and global anomalies in string sigma models. **89h:81141**
— (*with* Cotta-Ramusino, P.; Rinaldi, M.) Generalized Wess-Zumino terms. (*see* **89g:81058**)
Bouda, A. Gauged BRS symmetry for the Weyl×Lorentz×diffeomorphism group. **89k:81098**
Bowick, M. J. (*with* Rajeev, S. G.) The holomorphic geometry of closed bosonic string theory and $\mathrm{Diff}\, S^1/S^1$. **89a:81085**
Braga, N. R. F. *see* **de Almeida da Silva, M. A.; et al., 89f:81126**
Brumă, C. On Dirac matrices in gravitational field. **89d:81077**
Buchdahl, H. A. On the compatibility of relativistic wave equations in Riemann spaces. V. **89a:81086**
Bukhbinder, I. L. (*with* Odintsov, S. D.; Shapiro, I. L.) Equations of the renormalization group and effective potential in curved space-time. (Russian) (*see* **89d:81001**)
— (*with* Wolfengaut, J. J.) Renormalisation group equations and effective action in curved spacetime. **89m:81113**
— (*with* Odintsov, S. D.) The asymptotic behavior of an effective potential for composite fields in curved space-time. **89j:81137**
Buscher, T. H. Path-integral derivation of quantum duality in nonlinear sigma-models. **89d:81078**
Caianiello, Eduardo R. (*with* Gasperini, M.; Predazzi, E.; Scarpetta, G.) On the confining aspects of a conformally flat geometry. **89j:81138**
Callan, Curtis G., Jr. Strings in background fields. (*see* **89f:81005**)
Castagnino, Mario (*with* Laciana, Carlos) On a parametrization method for the semiclassical vacuum problem. I. **89a:81087**
Cotta-Ramusino, P. *see* **Bonora, L.; et al., 89h:81141** *and* (**89g:81058**)

Cutler, Curt (*with* Wald, Robert M.) A new type of gauge invariance for a collection of massless spin-2 fields. I. Existence and uniqueness. **89c:81082**

Cvetič, Mirjam Absence of the nonrenormalizable superpotential in the σ-model perturbation for smooth $(0, 2)$ compactifications. **89b:81153**

De Alfaro, V. (*with* Fubini, S.; Furlan, G.; Roncadelli, M.) Quantum spinning particle in a curved metric. **89a:81083**

De Angelis, Gian Fabrizio (*with* de Falco, Diego; Di Genova, Glauco) Asymptotic decay of the free field covariance on a Riemannian manifold via heat kernel techniques. **89d:81079**

Deguchi, Shinichi (*with* Naka, Shigefumi) Planck mass problem in the Kaluza-Klein theory with a supersymmetric extra space. II. Case of spinor fields. **89c:81084**

Deng, Yaobing (*with* Mannheim, Philip D.) Self-consistent solution for a scalar field coupled conformally to a Robertson-Walker geometry. **89a:81088**

Deser, S. (*with* Jackiw, R.) Comment on: "What is the most general abelian gauge theory in two spatial dimensions?" [Phys. Rev. Lett. **58** (1987), no. 11, 1074–1076; MR 88j:81038a] by C. R. Hagen. **89f:81129**

Di Genova, Glauco *see* **De Angelis, Gian Fabrizio; et al., 89d:81079**

Dolan, B. P. (*with* Tchrakian, D. H.) New Lagrangians for bosonic m-branes with vanishing cosmological constant. **89i:81087**

Domenech, G. (*with* Levinas, M. L.; Sánchez, Norma) Quantum field theory and the antipodal identification of space time. **89k:81099**

Dowker, J. S. Effect of zero modes in statistical mechanics. **89h:81142**

Duan, Yi Shi (*with* Liu, Ji Cheng) φ-mapping method, topological current, and string theory. **89f:81130**

Edelen, Dominic G. B. Static vacuum solution of direct Poincaré gauge theory in ten dimensions with four external. **89f:81131**

Elizalde, E. (*with* Tarrach, R.) Interacting $\lambda\varphi^4$ on a Schwarzschild background metric. (Italian and Russian summaries) **89i:81088**

— Exact solutions of the massive Klein-Gordon-Schwarzschild equation. **89i:81089**

Endo, Ryusuke (*with* Takao, Masaru) Chiral anomalies of antisymmetric tensor gauge fields in higher dimensions. **89a:81089**

— Gravitational anomalies: antisymmetric tensor gauge field versus bispinor field. **89b:81154**

— Gravitational anomaly and path integral Jacobian of antisymmetric tensor gauge field. **89i:81090**

Ennyu, Daiji *see* **Nakazawa, Naohito, 89k:81108**

Ershov, A. A. *see* **Gal′tsov, D. V., 89i:81091**

de Falco, Diego *see* **De Angelis, Gian Fabrizio; et al., 89d:81079**

Flato, M. (*with* Fronsdal, Christian) Singletons: fundamental gauge theory. **89h:81143**

Floreanini, Roberto (*with* Vinet, Luc) Vacuum state of complex scalar fields in SO(2, 1)-invariant backgrounds. **89a:81090**

— (*with* Vinet, Luc) Complex scalar fields in SO(2, 1)-invariant backgrounds: representation of the symmetries in the Schrödinger picture. **89j:81139**

Fronsdal, Christian The supersingleton. I. Free dipole and interactions at infinity. **89k:81100a**

— The supersingleton. II. Composite electrodynamics. **89k:81100b**

— *see also* **Flato, M., 89h:81143**

Fubini, S. *see* **De Alfaro, V.; et al., 89a:81083**

Fulling, S. A. (*with* Ruijsenaars, S. N. M.) Temperature, periodicity and horizons. **89a:81091**

Furlan, G. *see* **De Alfaro, V.; et al., 89a:81083**

Gaina, A. B. *see* **Ternov, I. M., 89j:81146**

Gal′tsov, D. V. (*with* Ershov, A. A.) Monopole-fermion systems in the complex isotropic tetrad formalism. **89i:81091**

Gao, Yi Hong String models and the geometry of the mapping space. (Chinese. English summary) **89j:81140**

Gasperini, M. *see* **Caianiello, Eduardo R.; et al., 89j:81138**

González, J. *see* **Bellucci, Stefano, 89e:81113**

Grib, A. A. (*with* Nesteruk, A. V.) Quantum effects and elimination of the conformal anomaly in anisotropic space-time. **89j:81141**

Guadagnini, E. (*with* Martellini, M.; Mintchev, M.) Scale invariant sigma models on homogeneous spaces. **89a:81092**

— The loop effective measure for sigma models coupled with gravity. **89i:81092**

Gui, Yuan Xing Thermo-quantum field and superthermo state. **89k:81101**

(Hagen, C. R.) *see* **Deser, S., 89f:81129**

Harris, Joseph Daniel *see* **Moore, Gregory W.; et al., 89c:81087**

Hartle, James B. Quantum kinematics of spacetime. I. Nonrelativistic theory. **89h:81144**

Heidenreich, W. Massless particles in de Sitter space. (*see* **89g:81001**)

Heiderich, K. (*with* Unruh, W.) Spin-two fields, general covariance, and conformal invariance. **89i:81093**

Hori, Takayuki Generalization of general relativity to the space of closed strings. **89b:81155**

Horowitz, Gary T. (*with* Morrow-Jones, Jonathan; Martin, Stephen P.; Woodard, R. P.) New exact solutions for the purely cubic bosonic string field theory. **89b:81156**

Howe, P. S. (*with* Penati, S.; Pernici, M.; Townsend, P. K.) Wave equations for arbitrary spin from quantization of the extended supersymmetric spinning particle. **89j:81142**

Hu, He Sheng (*with* Wu, Siye) Nonexistence theorems for Yang-Mills fields and harmonic maps in the Schwarzschild spacetime. II. **89b:81157**

Hull, C. M. (*with* Townsend, P. K.) String effective actions from sigma-model conformal anomalies. **89e:81114**

Illge, R. On spinor field equations of Buchdahl and Wünsch. (German summary) **89m:81114**

Itoh, Toshiharu *see* **Odaka, Kazuhiko, 89k:81109**

Itoi, Chigaku String vertices in a weakly curved background. **89b:81158**

Jackiw, R. *see* **Deser, S., 89f:81129**

Jain, Sanjay Conformally invariant field theory in two dimensions and strings in curved spacetime. **89i:81094**

Kandrup, Henry E. Entropy generation in curved spaces as a diagnostic for particle creation. **89a:81093**

Kanno, Hiroaki (*with* Nishimura, Kimihide; Tamekiyo, Akira) Two-point functions on supertorus and supermodular invariance. **89f:81132**

Karlhede, A. (*with* Roček, M.) Topological quantum field theory and $N = 2$ conformal supergravity. **89k:81102**

Kawai, E. Fields and their propagators on hyperspheres. (Italian and Russian summaries) **89k:81103**

Kay, Bernard S. Quantum field theory in curved spacetime. **89k:81104**

Ketov, S. V. Supersymmetric σ-models with torsion in supergravity background and critical dimensions for string theories. **89a:81094**

— Anomalies in 6-dimensional gauge theories. **89j:81143**

Khariton, N. G. *see* **Svetovoĭ, V. B., 89j:81145**

Kikkawa, Keiji (*with* Maeno, Masahiro; Sawada, Shiro) String field theory in curved space. **89f:81133**

Klimčík, Ctirad Quantum field theory in a gravitational shock wave background. **89h:81145**

Kogan, Ya. I. Vortices on the world sheet of a string; critical dynamics. **89a:81095**

Kubyshin, Yu. A. *see* **Volobuev, I. P., 89h:81149**

Kundu, Prasun K. Finite-temperature effects in the φ^4-model in a Robertson-Walker universe. (Italian and Russian summaries) **89c:81085**

Kuusk, Piret The heterotic superstring and curved, scale-invariant superspace. **89k:81105**

Laciana, Carlos *see* **Castagnino, Mario, 89a:81087**

Langouche, F. (*with* Leutwyler, H.) Two-dimensional fermion determinants as Wess-Zumino actions. **89c:81086**

Lawrynowicz, Julian (*with* Wojtczak, Leszek) A complex-analytical method of solving the generalized Dirac-Maxwell system for complex-Riemannian metric. **89f:81134**

Leutwyler, H. *see* **Langouche, F., 89c:81086**

Levinas, M. L. *see* **Domenech, G.; et al., 89k:81099**

Lhallabi, T. (*with* Saidi, E. H.) The $(4, 0)$ and $(4, 4)$ supersymmetric nonlinear σ-models in the $D = 2$ harmonic superspace. **89a:81096**

Lieberman, Bennett (*with* Rogers, Barrett) Adiabatic methods in the functional Schrödinger picture. **89k:81106**

Liu, Ji Cheng *see* **Duan, Yi Shi, 89f:81130**

Luckock, Hugh (*with* Moss, Ian; Toms, David J.) Polyakov strings in background fields: wave functions and quantum cosmology. **89e:81115**

Madsen, Mark S. Scalar fields in curved spacetimes. **89e:81116**

Maeno, Masahiro (*with* Sawada, Shiro) String field theory in curved space: a nonlinear σ-model analysis. **89m:81115**

— *see also* **Kikkawa, Keiji; et al., 89f:81133**

Makhan′kov, V. G. (*with* Myrsakulov, R.; Pashaev, O. K.) Gauge equivalence, supersymmetry and classical solutions of the $\mathrm{ospu}(1, 1/1)$ Heisenberg model and the nonlinear Schrödinger equation. **89g:81059**

Mannheim, Philip D. *see* **Deng, Yaobing, 89a:81088**

Martellini, M. *see* **Guadagnini, E.; et al., 89a:81092**

Martin, Stephen P. *see* **Horowitz, Gary T.; et al., 89b:81156**

Matyjasek, Jerzy $\langle\varphi^2\rangle_{\mathrm{REG}}$ in Schwarzschild-de Sitter spacetime. **89i:81095**

Mazzitelli, F. D. *see* **Paz, J. P., 89h:81146**

McInnes, Brett The geometry of gauge symmetry breaking in the superstring context. **89m:81116**

Minkowski, P. Note on the complex of mixed gravitational and Yang-Mills anomalies of spin $\frac{1}{2}$ fermions. **89e:81117**

Mintchev, M. *see* **Guadagnini, E.; et al., 89a:81092**

Mishima, Takashi (*with* Nakayama, Akihiro) Notes on the Hawking effect in de Sitter space. I. **89e:81118a**

Moore, Gregory W. (*with* Nelson, Philip C.; Polchinski, J.) Errata: "Strings and supermoduli" [Phys. Lett. B **169** (1986), no. 1, 47–53; MR 88d:81081]. **89b:81159**

— (*with* Harris, Joseph Daniel; Nelson, Philip C.; Singer, Isadore M.) Errata: "Modular forms and the cosmological constant" [Phys. Lett. B **178** (1986), no. 2-3, 167–173; MR 87m:81170]. **89c:81087**

Morozov, A. Yu. (*with* Roslyĭ, A. A.) Statistical sums for open and/or oriented strings. **89a:81097**

Morozov, M. Yu. (*with* Tikhonenko, A. V.) Quantization of free fields in de Sitter space. (Russian) **89e:81119**

Morrow-Jones, Jonathan *see* **Horowitz, Gary T.; et al., 89b:81156**

Moshe, Moshe Covariant quantization of the superparticle action—zero mode of the Green and Schwarz superstring. **89f:81135**

Moss, Ian *see* **Luckock, Hugh; et al., 89e:81115**

Moylan, Patrick Joseph A generalization of the Fourier transform and applications to quantum field theory. **89k:81107**

Myers, Robert C. New dimensions for old strings. **89c:81088**

Myrsakulov, R. *see* **Makhan′kov, V. G.; et al., 89g:81059**

Naka, Shigefumi *see* **Deguchi, Shinichi, 89c:81084**

Nakayama, Akihiro Notes on the Hawking effect in de Sitter space. II. **89e:81118b**

— *see also* **Mishima, Takashi, 89e:81118a**

Nakazawa, Naohito (*with* Ennyu, Daiji) Background field method for nonlinear σ-model in stochastic quantization. **89k:81108**

Narnhofer, H. Quantum field theory in gravitational background. **89a:81098**

Nelson, Philip C. *see* **Moore, Gregory W.; et al., 89b:81159** *and* **89c:81087**

Nesteruk, A. V. *see* **Grib, A. A., 89j:81141**

Nishimura, Kimihide *see* **Kanno, Hiroaki; et al., 89f:81132**

Odaka, Kazuhiko (*with* Itoh, Toshiharu) Particle picture in external fields, quantum holonomy, and gauge anomaly. **89k:81109**

Odintsov, S. D. Casimir effect in multidimensional quantum supergravities and supersymmetry breaking. **89f:81136**

— *see also* **Bukhbinder, I. L., 89j:81137** *and* (**89d:81001**)

Parisi, Giorgio On p-adic functional integrals. **89e:81120**

Parker, Leonard (*with* Toms, David J.) Renormalisation group methods in curved spacetime. (*see* **89b:81008**)

Pashaev, O. K. *see* **Makhan′kov, V. G.; et al., 89g:81059**

Pathinayake, Chandra (*with* Vilenkin, Alexander; Allen, Bruce) Massless scalar and antisymmetric tensor fields in de Sitter space. **89b:81160**

Pavšič, Matej Classical motion of membranes, strings and point particles with extrinsic curvature. **89f:81137**

— *see also* **Barut, A. O., 89j:81135**

Paz, J. P. (*with* Mazzitelli, F. D.) The backreaction problem for self-interacting scalar fields: one loop and Gaussian approximations. **89h:81146**
Penati, S. *see* **Howe, P. S.; et al., 89j:81142**
Pernici, M. *see* **Howe, P. S.; et al., 89j:81142**
Piette, B. *see* **Antoine, J.-P., 89f:81127**
Polchinski, J. Scale and conformal invariance in quantum field theory. **89j:81144**
— *see also* **Moore, Gregory W.; et al., 89b:81159**
Pope, C. N. Sigma model β-functions at all loop orders. (*see* **89g:81058**)
— *see also* **Bars, Itzhak; et al., 89b:81152**
Predazzi, E. *see* **Caianiello, Eduardo R.; et al., 89j:81138**
Prugovečki, E. On Newton-Cartan quantum geometries. **89b:81161**
— Geometro-stochastic quantization of massive fields in curved space-time. (Italian and Russian summaries) **89i:81096**
Rajeev, S. G. *see* **Bowick, M. J., 89a:81085**
Ranganathan, D. The Dirac equation in the de Broglie-Bohm theory. **89h:81147**
Rinaldi, M. *see* **Bonora, L.; et al., 89h:81141** *and* (**89g:81058**)
Roček, M. *see* **Karlhede, A., 89k:81102**
Rogers, Barrett *see* **Lieberman, Bennett, 89k:81106**
Roncadelli, M. *see* **De Alfaro, V.; et al., 89a:81083**
Roslyĭ, A. A. *see* **Morozov, A. Yu., 89a:81097**
Ruijsenaars, S. N. M. *see* **Fulling, S. A., 89a:81091**
Russell, I. H. (*with* Toms, David J.) Vacuum energy for massive forms in $\mathbf{R}^M \times S^N$. **89b:81162**
Saidi, E. H. *see* **Lhallabi, T., 89a:81096**
Salam, A. *see* **Bergshoeff, Eric; et al., 89j:81136**
Sánchez, Norma *see* **de Vega, H. J., 89a:81099**; **89e:81123**; **Domenech, G.; et al., 89k:81099**; **de Vega, H. J., 89k:81111** *and* **89k:81112**
Sanielevici, Mihaela Niculescu (*with* Semenoff, Gordon W.) Conformal field theory and the geometry of second quantization. **89f:81138**
Sawada, Shiro *see* **Kikkawa, Keiji; et al., 89f:81133** *and* **Maeno, Masahiro, 89m:81115**
Sawhill, Bruce K. Nontrivial ground state of the closed bosonic membrane. **89b:81163**
— Extended objects in curved space-time. **89e:81121**
Scarpetta, G. *see* **Caianiello, Eduardo R.; et al., 89j:81138**
Semenoff, Gordon W. *see* **Sanielevici, Mihaela Niculescu, 89f:81138**
Sevrin, A. *see* **Spindel, Ph.; et al., 89f:81139**
Sezgin, E. *see* **Bars, Itzhak; et al., 89b:81152** *and* **Bergshoeff, Eric; et al., 89j:81136**
Shapiro, I. L. *see* **Bukhbinder, I. L.; et al.,** (**89d:81001**)
Shirai, Ikuo (*with* Wada, Sumio) Cosmological perturbations and quantum fields in curved space. **89m:81117**
Shizume, Kousuke (*with* Takagi, Shin) Radiation by moving shells in curved two-dimensional space-time. **89k:81110**
Singer, Isadore M. *see* **Moore, Gregory W.; et al., 89c:81087**
Spindel, Ph. (*with* Sevrin, A.; Troost, W.; Van Proeyen, A.) Complex structures on parallelised group manifolds and supersymmetric σ-models. **89f:81139**
— Back-reaction of a scalar quantum field on curved space: an exact solution of the semiclassical equations. **89i:81097**
Svetovoĭ, V. B. (*with* Khariton, N. G.) A gauge theory in a space with nontrivial topology. **89j:81145**
Tadaki, Shin Ichi Renormalized stress tensor and field fluctuation in a Friedmann universe. Application of Hadamard regularization. **89f:81140**
Takagi, Shin *see* **Shizume, Kousuke, 89k:81110**
Takao, Masaru *see* **Endo, Ryusuke, 89a:81089**
Tamekiyo, Akira *see* **Kanno, Hiroaki; et al., 89f:81132**
Tanii, Yoshiaki *see* **Bergshoeff, Eric; et al., 89j:81136**
Tarrach, R. *see* **Elizalde, E., 89i:81088**
Tchrakian, D. H. *see* **Dolan, B. P., 89i:81087**
Ternov, I. M. (*with* Gaina, A. B.) Energy spectrum of the Dirac equation in the Schwarzschild and Kerr fields. **89j:81146**
Tikhonenko, A. V. *see* **Morozov, M. Yu., 89e:81119**
Toms, David J. *see* **Russell, I. H., 89b:81162**; **Luckock, Hugh; et al., 89e:81115** *and* **Parker, Leonard,** (**89b:81008**)
Townsend, P. K. *see* **Hull, C. M., 89e:81114** *and* **Howe, P. S.; et al., 89j:81142**
Troost, W. *see* **Spindel, Ph.; et al., 89f:81139**
Tseytlin, A. A. Sigma-model Weyl invariance conditions and string equations of motion. **89e:81122**
Uehara, Shozo (*with* Yasui, Yukinori) Super-Selberg trace formula from the chaotic model. **89m:81118**
Unruh, W. *see* **Heiderich, K., 89i:81093**
Valle, M. A. Symmetry breaking in de Sitter spacetime by antipodal symmetric and antisymmetric fields. **89i:81098**
Van Proeyen, A. *see* **Spindel, Ph.; et al., 89f:81139**
Vasil′ev, M. A. Free massless fermionic fields of arbitrary spin in d-dimensional anti-de Sitter space. **89d:81080**
— Linearized curvatures for auxiliary fields in the de Sitter space. **89j:81147**
— Linearized curvatures of auxiliary fields in anti-de Sitter space. **89j:81148**
de Vega, H. J. (*with* Sánchez, Norma) A new approach to string quantization in curved spacetimes. **89a:81099**
— (*with* Sánchez, Norma) String quantization in accelerated frames and black holes. **89e:81123**
— (*with* Sánchez, Norma) Quantum dynamics of strings in black hole space times. **89k:81111**
— (*with* Sánchez, Norma) The scattering of strings by a black hole. **89k:81112**
Verbin, Y. About the vacuum of scalar field theory in anti-de Sitter space. **89h:81148**
Vilenkin, Alexander *see* **Pathinayake, Chandra; et al., 89b:81160**
Vinet, Luc *see* **Floreanini, Roberto, 89a:81090** *and* **89j:81139**
Visser, Matt *see* **Blau, Steven K.; et al., 89i:81086**
Volobuev, I. P. (*with* Kubyshin, Yu. A.) Spontaneous compactification from the point of view of dimensional reduction of gauge fields. **89h:81149**
Voruganti, Purushotham BRST quantization of the CP^1 model with Chern-Simons term in $2+1$ dimensions. **89k:81113**
Wada, Sumio *see* **Shirai, Ikuo, 89m:81117**
Wald, Robert M. A new type of gauge invariance for a collection of massless spin-2 fields. II. Geometrical interpretation. **89c:81083**
— *see also* **Cutler, Curt, 89c:81082**
Wipf, Andreas *see* **Blau, Steven K.; et al., 89i:81086**
Wojtczak, Leszek *see* **Lawrynowicz, Julian, 89f:81134**
Wolfengaut, J. J. *see* **Bukhbinder, I. L., 89m:81113**
Woodard, R. P. *see* **Horowitz, Gary T.; et al., 89b:81156**
Wu, Siye *see* **Hu, He Sheng, 89b:81157**
Wu, Yong Shi^{1} (*with* Zee, A.) Membranes, higher Hopf maps, and phase interactions. **89f:81141**
Xu, Dian Yan Calculation of a_3 coefficient of scalar field by point separation method. **89k:81114**
Yajima, Satoshi Evaluation of heat kernels in curved space. **89m:81119**
Yasui, Yukinori *see* **Uehara, Shozo, 89m:81118**
Zee, A. *see* **Wu, Yong Shi^{1}, 89f:81141**

Items with secondary classifications in 81E20

Abdalla, E. (*with* Lima Santos, A.) Bound state solution of the Grassmannian nonlinear sigma model with fermions. **89f:81092**
Abe, Mitsuo (*with* Nakanishi, Noboru) BRS-invariant Lagrangian density in the new local supersymmetry of the vierbein formalism of Einstein gravity. **89d:83034**
Abecasis, C. (*with* Foussats, A.; Zandron, O.) Diffeomorphically nonequivalent classes of solutions in gauge theories on group manifolds. **89m:53128**
Al Saad, A. (*with* Benn, I. M.) Ideal-preserving Lorentzian connections. **89c:53046**
Alvarez-Gaumé, L. *see* **Della Pietra, Stephen; et al., 89b:58217**
Aoyama, Hideaki $\mathrm{OSp}(2,2|4)$ for open-string fields. **89h:81159**
Aoyama, S. (*with* Hong Tuan, R.) Conformally invariant $\mathrm{U}(1)$-gauge theory in two dimensions. **89b:81112**
Aragone, C. (*with* Deser, S.; Yang, Zhu) Massive higher spin from dimensional reduction of gauge fields. **89j:83067**
Bagger, J. A. (*with* Gal′perin, A. S.; Ivanov, Evgeniĭ Alekseevich^{2}; Ogievetskiĭ, V. I.) Gauging $N=2$ sigma models in harmonic superspace. **89h:81097**
Balbinot, Roberto (*with* Barletta, Antonio) Behaviour of a test field in a vacuum bubble space-time. (Italian and Russian summaries) **89m:83045**
Bambusi, D. The Yang-Mills field reduced to a metric of a three-dimensional space. (Italian and Russian summaries) **89b:81115**
Barletta, Antonio *see* **Balbinot, Roberto, 89m:83045**
Barrow, John D. (*with* Deruelle, Nathalie) The confrontation of no-scale supergravity with cosmology. **89b:83091**
Benn, I. M. *see* **Al Saad, A., 89c:53046**
Birmingham, Danny (*with* Kantowski, R.; Milton, Kimball A.) Scalar and spinor Casimir energies in even-dimensional Kaluza-Klein spaces of the form $M^4 \times S^{N_1} \times S^{N_2} \times \cdots$. **89j:83044**
Bogdanov, I. V. (*with* Demkov, Yu. N.) Determination of the internal structure of relativistic astrophysical objects in the wave approximation. **89c:83037**
Bogojević, Aleksandar R. BRST invariance of the measure in string field theory. **89a:81114**
Bonora, L. (*with* Cotta-Ramusino, P.; Rinaldi, M.; Stasheff, James) The evaluation map in field theory, sigma-models and strings. I. **89d:53120**
— (*with* Cotta-Ramusino, P.; Rinaldi, M.; Stasheff, James) The evaluation map in field theory, sigma-models and strings. II. **89d:53121**
Boulware, David G. (*with* Deser, S.; Stelle, K. S.) Properties of energy in higher derivative gravity theories. (*see* **89b:81008**)
(Breitenlohner, Peter) *see* **Renormalization of quantum field theories with nonlinear field transformations, 89g:81058**
Brooks, Roger (*with* Gates, S. James, Jr.) Manifestly supersymmetric gauge fixing in $D=2$ supergravity theories. **89e:83078**
Bukhbinder, I. L. (*with* Kuzenko, S. M.) Superfields of matter in an external field of $N=1$ supergravity. Green functions, effective action, superconformal anomalies. (Russian) (*see* **89d:81001**)
— (*with* Odintsov, S. D.) Effective action in multi-dimensional supergravities and induced Einstein gravity. **89i:83062**
— (*with* Lavrov, P. M.; Odintsov, S. D.) Unique effective action in Kaluza-Klein quantum theories and spontaneous compactification. **89j:83036**
Burinskiĭ, A. Ya. The problem of the source of the Kerr-Newman metric: the volume Casimir effect and superdense pseudovacuum state. **89m:83046**
Cadoni, M. $N=1$ supergravity models based on noncompact Hermitian symmetric coset spaces. **89g:83052**
Castagnino, Mario (*with* el Hasi, C. D.; Mazzitelli, F. D.; Paz, J. P.) On the Dirac equation in anisotropic backgrounds. **89h:81084**
Chakrabarti, Amitabha Fermions and gauge fields in the Einstein static universe. **89f:83061**
Chen, Wei (*with* Guo, Han Ying; Hu, Hong Liang; Yu, Yue) Symmetry, cohomology and string field theories—a Fock space formalism. **89k:81072**
Chisholm, J. S. R. (*with* Farwell, R. S.) Gravity and the frame field. **89g:83038**
Clark, T. E. (*with* Love, S. T.) Supersymmetric chiral normal coordinates. **89g:81054**
Coquereaux, Robert Comments about the geometry of nonlinear sigma models. **89f:81165**
Cordani, B. (*with* Fehér, L. Gy.; Horváthy, P. A.) Monopole scattering spectrum from geometric quantisation. **89k:58310**
— (*with* Fehér, Gy.; Horváthy, P. A.) $\mathrm{O}(4,2)$ dynamical symmetry of the Kaluza-Klein monopole. **89f:83084**
Cotta-Ramusino, P. *see* **Bonora, L.; et al., 89d:53120** *and* **89d:53121**
Davis, A. C. (*with* Gracey, J. A.; Macfarlane, A. J.) Nonperturbative effects in supersymmetric sigma models. **89a:81067**
Delamotte, B. (*with* Ouvry, S.) Generalised Fayet-Sohnius hypermultiplet. (Not in MR)
Della Pietra, Stephen (*with* Della Pietra, Vincent; Alvarez-Gaumé, L.) The chiral determinant and the eta invariant. **89b:58217**
Della Pietra, Vincent *see* **Della Pietra, Stephen; et al., 89b:58217**
Demkov, Yu. N. *see* **Bogdanov, I. V., 89c:83037**
Deruelle, Nathalie *see* **Barrow, John D., 89b:83091**
Deser, S. *see* **Aragone, C.; et al., 89j:83067** *and* **Boulware, David G.; et al.,** (**89b:81008**)

DeWitt, Bryce The effective action. **89h:81101**

Doktorov, E. V. (*with* Milovanov, M. V.) On a connection between Einstein-Maxwell equations and self-duality equations for gauge fields. **89k:83007**

Duncan, M. J. (*with* Segrè, G.; Wheater, J. F.) Topological stability in higher-dimensional theories. **89j:83075**

Efrat, Isaac Determinants of Laplacians and a second limit formula in GL(3). **89a:58109**

Elizalde, E. Casimir effects in tori and pairs of plates. **89i:81110**

Evans, Mark (*with* Ovrut, Burt A.) Hyper-Kähler metrics from (4, 0) superspace. **89b:53103**

de Falco, Diego The stochastic mechanics of fields in a general relativistic context: problems and perspectives. **89c:81042**

Farwell, R. S. *see* **Chisholm, J. S. R., 89g:83038**

Fehér, L. Gy. *see* **Cordani, B.; et al., 89f:83084** *and* **89k:58310**

Foussats, A. *see* **Abecasis, C.; et al., 89m:53128**

Gal′perin, A. S. (*with* Ivanov, Evgeniĭ Alekseevich^2; Ogievetskiĭ, V. I.; Sokatchev, E. S.) Gauge field geometry from complex and harmonic analyticities. I. Kähler and self-dual Yang-Mills cases. **89i:53053**

— (*with* Ivanov, Evgeniĭ Alekseevich^2; Ogievetskiĭ, V. I.; Sokatchev, E. S.) Gauge field geometry from complex and harmonic analyticities. II. Hyper-Kähler case. **89i:53054**

— *see also* **Bagger, J. A.; et al., 89h:81097**

Gandhi, S. K. (*with* Stelle, K. S.) Vanishing of the supermembrane partition function. **89m:81098**

Gates, S. James, Jr. *see* **Brooks, Roger, 89e:83078**

Gazeau, J.-P. (*with* Hans, M.) Conformally invariant wave equations on $3 + 2$ de Sitter space. (*see* **89g:81001**)

Gegenberg, J. (*with* Kelly, P. F.; Mann, R. B.; McArthur, Randall Douglas; Vincent, D. E.) Reinterpretation of the nonlinear sigma model with torsion. **89j:81099**

Gerlach, Ulrich H. Minkowski Bessel modes. **89m:83047a**

— Erratum: "Minkowski Bessel modes". **89m:83047b**

— Dynamics and symmetries of a field partitioned by an accelerated frame. **89m:83048**

Gieres, François (*with* McCabe, John Francis) 2d SUGRA: supersymmetric form of the effective action leading to the conformal anomaly. **89c:83051**

Girardi, G. (*with* Grimm, Richard) Chern-Simons forms and four-dimensional $N = 1$ superspace geometry. **89c:81124**

Gracey, J. A. *see* **Davis, A. C.; et al., 89a:81067**

Grib, A. A. (*with* Nesteruk, A. V.; Pritomanov, S. A.) Quantum effects of massless fields in anisotropic spacetime. **89e:83037**

Grimm, Richard *see* **Girardi, G., 89c:81124**

Grinstein, Benjamin (*with* Rohm, Ryan) Dirac and Majorana spinors on nonorientable Riemann surfaces. **89d:53033**

Grishchuk, L. P. (*with* Zel′dovich, Ya. B.; Rozhanskiĭ, L. V.) Equivalence principle and zero-point field fluctuations. **89b:83052**

Grosche, C. (*with* Steiner, F.) The path integral on the Poincaré upper half plane and for Liouville quantum mechanics. **89g:81023**

— The product form for path integrals on curved manifolds. **89e:81041**

Guo, Han Ying *see* **Chen, Wei; et al., 89k:81072**

Gusynin, V. P. (*with* Roman′kov, V. V.) Conformally covariant operators and the effective action in an external gravitational field. **89d:83040**

Hans, M. *see* **Gazeau, J.-P., (89g:81001)**

Hartle, James B. (*with* Witt, D. M.) Gravitational θ states and the wave function of the universe. **89f:83055**

el Hasi, C. D. *see* **Castagnino, Mario; et al., 89h:81084**

Hawking, S. W. (*with* Laflamme, R.) Baby universes and the nonrenormalizability of gravity. **89h:83021**

Hayashi, Masahito (*with* Kawamoto, Noboru; Kuramoto, Tetsuji; Shigemoto, Kazuyasu) Gravitational anomaly cancellation in type I superstring theory. **89b:81193**

Higuchi, Atsushi (*with* Parker, Leonard) Aspects of QED and nonabelian gauge theories in $S^1 \times \mathbf{R}^3$ and $S^1 \times \mathbf{R}^4$ spacetimes. **89e:81091**

Hong Tuan, R. *see* **Aoyama, S., 89b:81112**

't Hooft, G. Nonperturbative 2 particle scattering amplitudes in $2 + 1$-dimensional quantum gravity. **89h:83022**

Horváthy, P. A. *see* **Cordani, B.; et al., 89f:83084** *and* **89k:58310**

Howe, P. S. (*with* Papadopoulos, G.; Stelle, K. S.) The background field method and the nonlinear σ-model. **89e:81108**

Hu, B. L. *see* **Sinha, Sukanya, 89j:83049**

Hu, Hong Liang *see* **Chen, Wei; et al., 89k:81072**

Hu, Xing (*with* Wu, You Lin) Quantum cosmological model with a scalar field as source. **89g:83026**

Huggins, S. R. (*with* Kunstatter, G.; Leivo, H. P.; Toms, David J.) The Vilkovisky-DeWitt effective action for quantum gravity. **89j:83040**

Husain, Viqar Weyl tensor and gravitational entropy. **89m:83049**

Ianuş, S. (*with* Vişinescu, M.) Kaluza-Klein theory with scalar fields and generalised Hopf manifolds. **89a:83059**

Illge, R. On potentials for several classes of spinor and tensor fields in curved spacetimes. **89j:83053**

Isham, C. J. (*with* Pope, C. N.) Nowhere-vanishing spinors and topological obstructions to the equivalence of the NSR and GS superstrings. **89g:53107**

Ito, Kei Quark lepton mass matrices in string theory on orbifolds. (*see* **89a:81005**)

Ivanov, Evgeniĭ Alekseevich^2 *see* **Bagger, J. A.; et al., 89h:81097; Gal′perin, A. S.; et al., 89i:53053** *and* **89i:53054**

Jacques, Michel (*with* Saint-Aubin, Yvan) Infinite-dimensional Lie algebras acting on the solution space of various σ models. **89c:58027**

Jayewardena, Camillus Schwinger model on S^2. **89j:81305**

John, R. W. The Hadamard construction of Green's functions on a curved space-time with symmetries. (German summary) **89j:83046**

Joshi, Pankaj S. (*with* Joshi, Sonal S.) Quantum effects near the singularity in a general cosmological scenario. **89f:83058a**

— *see also* **Joshi, Sonal S., 89f:83058b**

Joshi, Sonal S. (*with* Joshi, Pankaj S.) Quantum effects near the singularity in a general cosmological scenario. II. **89f:83058b**

— *see also* **Joshi, Pankaj S., 89f:83058a**

Kandrup, Henry E. Entropy generation, particle creation, and quantum field theory in a cosmological spacetime: when do number and entropy increase? **89m:83051**

Kantowski, R. *see* **Birmingham, Danny; et al., 89j:83044**

Kawamoto, Noboru *see* **Hayashi, Masahito; et al., 89b:81193**

Keller, Georg (*with* Silvotti, Roberto) Quantum measure and Weyl anomaly of two-dimensional bosonic nonlinear σ-models. **89j:58020**

Kelly, P. F. *see* **Gegenberg, J.; et al., 89j:81099**

Ketov, S. V. New $N = 2$ matter couplings in superspace. **89f:83101**

— Three-loop finiteness of the two-dimensional supersymmetric nonlinear σ-models on generalized Ricci-flat manifolds with torsion. **89m:81106**

Kogan, Ya. I. (*with* Morozov, A. Yu.; Perelomov, A. M.) Finiteness of $N = 4$ supersymmetric sigma models. **89f:81120**

Kraemmer, Ulrike *see* **Rebhan, Anton, 89b:81141**

Kunstatter, G. *see* **Huggins, S. R.; et al., 89j:83040**

Kuramoto, Tetsuji *see* **Hayashi, Masahito; et al., 89b:81193**

Kutasov, David Modular invariance, chiral anomalies and contact terms. **89j:81195**

Kuzenko, S. M. *see* **Bukhbinder, I. L., (89d:81001)**

Laflamme, R. The Euclidean vacuum: justification from quantum cosmology. **89a:83037**

— *see also* **Hawking, S. W., 89h:83021**

Lancaster, David The Weyl anomaly for singular surfaces. **89g:81047**

Lavrov, P. M. *see* **Bukhbinder, I. L.; et al., 89j:83036**

Leivo, H. P. *see* **Huggins, S. R.; et al., 89j:83040**

Lerche, W. (*with* Nilsson, B. E. W.; Schellekens, A. N.; Warner, N. P.) Anomaly cancelling terms from the elliptic genus. **89g:81082**

Lima Santos, A. *see* **Abdalla, E., 89f:81092**

Lohiya, D. (*with* Mukherjee, Amitabha) On the Skyrmion number of Schwarzschild black holes. **89a:83006**

Lotze, K.-H. Emission of a photon by an electron in Robertson-Walker universes. **89a:81188**

Love, S. T. *see* **Clark, T. E., 89g:81054**

Macfarlane, A. J. *see* **Davis, A. C.; et al., 89a:81067**

Macías, A. (*with* Obregón, O.) (Super) cosmological solution for the Kasner model. **89k:83078**

(Maison, Dieter) *see* **Renormalization of quantum field theories with nonlinear field transformations, 89g:81058**

Mann, R. B. *see* **Gegenberg, J.; et al., 89j:81099**

Mazur, Paweł O. Are there topological black-hole solitons in string theory? **89b:83054**

Mazzitelli, F. D. *see* **Castagnino, Mario; et al., 89h:81084**

McArthur, Randall Douglas *see* **Gegenberg, J.; et al., 89j:81099**

McCabe, John Francis *see* **Gieres, François, 89c:83051**

Merkulov, S. A. Local supertwistors. **89k:83079**

Mickelsson, Jouko On the geometry of Dirac determinant bundles in two dimensions. **89g:58195**

Miković, Aleksandar R. Equations of motion for $N = 1$ massless super-Poincaré representations in $D = 3, 4$ space-time. **89e:81071a**

— (*with* van de Ven, Anton E. M.) Free equations of motion for all $D = 6$ supermultiplets. **89e:81071b**

Milovanov, M. V. *see* **Doktorov, E. V., 89k:83007**

Milton, Kimball A. *see* **Birmingham, Danny; et al., 89j:83044**

Mishra, V. K. (*with* Tanaka, Katsumi) Connection of some two-dimensional bosonic and fermionic models to scalar curvature. **89c:81150**

Mohapatra, Rabindra Nath Yukawa couplings and phenomenological profile of a three generation superstring model. (*see* **89a:81005**)

Morava, Jack (*with* Tamanoi, Hirotaka) A vanishing theorem for the conformal anomaly in dimension > 2. **89c:58121**

Morozov, A. Yu. *see* **Kogan, Ya. I.; et al., 89f:81120**

Mukherjee, Amitabha *see* **Lohiya, D., 89a:83006**

Nakanishi, Noboru *see* **Abe, Mitsuo, 89d:83034**

Nambu, Yasusada (*with* Sasaki, Misao) The wave function of a collapsing dust sphere inside the black hole horizon. **89d:83042**

Nesteruk, A. V. *see* **Grib, A. A.; et al., 89e:83037**

Nilsson, B. E. W. *see* **Lerche, W.; et al., 89g:81082**

Obregón, O. *see* **Macías, A., 89k:83078**

O'Brien, G. M. (*with* Tchrakian, D. H.) Spin-connection generalized Yang-Mills fields on double-dual generalized Einstein-Cartan backgrounds. **89j:81108**

Obukhov, Yu. N. (*with* Pronin, P. I.) Renormalization of gauge field theories in Riemann-Cartan space-time. I. Abelian models. **89m:81110**

Odintsov, S. D. Casimir effect in multidimensional quantum supergravities and supersymmetry breaking. **89i:83057**

— Effective potential in $N = 1$ supergravity de Sitter space. **89j:83090**

— *see also* **Bukhbinder, I. L., 89i:83062** *and* **89j:83036**

Ogievetskiĭ, V. I. *see* **Bagger, J. A.; et al., 89h:81097; Gal′perin, A. S.; et al., 89i:53053** *and* **89i:53054**

Olivier, Dominique (*with* Valent, G.) Hyper-Kähler generalization of Taub-NUT from harmonic superspace. **89a:53087**

Osborn, Hugh Renormalisation and composite operators in nonlinear σ models. **89h:81137**

Ottewill, Adrian (*with* Takagi, Shin) Radiation by moving mirrors in curved space-time. **89m:83053**

Ouvry, S. *see* **Delamotte, B., (Not in MR)**

Ovrut, Burt A. *see* **Evans, Mark, 89b:53103**

Pak, D. G. *see* **Zupnik, B. M., 89j:81120**

Papadopoulos, G. *see* **Howe, P. S.; et al., 89e:81108**

Parker, Leonard *see* **Higuchi, Atsushi, 89e:81091**

Parthasarathy, Ragavachariar On Gribov ambiguity in finite temperature abelian gauge theory. **89g:81051**

Paz, J. P. *see* **Castagnino, Mario; et al., 89h:81084**

Pažma, V. (*with* Prešnajder, P.) Short-time propagator in curved spaces. **89h:81067**

Perelomov, A. M. *see* **Kogan, Ya. I.; et al., 89f:81120**

Polychronakos, Alexios P. Topological origin of the angular momentum induced by the Chern-Simons form. **89b:81140**

Pope, C. N. *see* **Isham, C. J., 89g:53107**

Popov, A. D. Spontaneous compactification of $d = 11$ supergravity due to Rarita-Schwinger fields. (Russian. English summary) **89d:83076**

Prešnajder, P. *see* **Pažma, V., 89h:81067**

Pritomanov, S. A. *see* **Grib, A. A.; et al., 89e:83037**

Pronin, P. I. *see* **Obukhov, Yu. N., 89m:81110**

Rajeev, S. G. Yang-Mills theory on a cylinder. **89i:81075**

Rebhan, Anton (*with* Kraemmer, Ulrike) On the harmonic gauge in the quantization of strings. **89b:81141**

Redmount, Ian H. (*with* Takagi, Shin) Hyperspherical Rindler space, dimensional reduction, and de Sitter-space scalar field theory. **89f:83064**

Rinaldi, M. *see* **Bonora, L.; et al., 89d:53120** *and* **89d:53121**

Rohm, Ryan *see* **Grinstein, Benjamin, 89d:53033**

Roman, Thomas A. Mining a charged black hole and the third law of black hole thermodynamics. **89i:83042**

Roman′kov, V. V. *see* **Gusynin, V. P., 89d:83040**

Rozhanskiĭ, L. V. Hawking temperature and fluctuations of a scalar field in a de Sitter space. **89m:83054**

— *see also* **Grishchuk, L. P.; et al., 89b:83052**

Saint-Aubin, Yvan *see* **Jacques, Michel, 89c:58027**

Sánchez, Norma Quantum field theory and the "elliptic interpretation" of de Sitter spacetime. **89b:83055**

— Field and string quantization in curved space-times. **89m:83055**

— Semiclassical quantum gravity in two and four dimensions. **89i:83043**

— Generalized analytic mappings and flat-space models of Hawking radiation. **89j:83048**

Sasaki, Misao *see* **Nambu, Yasusada, 89d:83042**

Sazdović, B. Equivalence of different formulations of the free Ramond string field theory. **89a:81150**

Schellekens, A. N. *see* **Lerche, W.; et al., 89g:81082**

Schmutzer, Ernst Projective relativity and quantum fields. **89e:83066**

Schroer, Bert Quantum field theory on Riemann surfaces and the unitarity problem. **89a:81151**

Segrè, G. *see* **Duncan, M. J.; et al., 89j:83075**

Shigemoto, Kazuyasu *see* **Hayashi, Masahito; et al., 89b:81193**

(Sibold, K.) *see* **Renormalization of quantum field theories with nonlinear field transformations, 89g:81058**

Silvotti, Roberto *see* **Keller, Georg, 89j:58020**

Sinha, Sukanya (*with* Hu, B. L.) Symmetry behavior in cosmological spacetimes: effect of slowly varying background fields. **89j:83049**

Sivakumar, M. Consistent spin-one theories by Kaluza-Klein dimensional reduction. **89b:83086**

Sokatchev, E. S. *see* **Gal′perin, A. S.; et al., 89i:53053** *and* **89i:53054**

Sorokin, D. P. *see* **Volkov, D. V.; et al., (89d:81001)**

Sotkov, G. (*with* Stanishkov, M.) Erratum: "Yukawa couplings for the three-generation string model". **89k:81173b**

Stanishkov, M. *see* **Sotkov, G., 89k:81173b**

Stasheff, James Cohomological physics. **89i:58003**

— *see also* **Bonora, L.; et al., 89d:53120** *and* **89d:53121**

Steiner, F. *see* **Grosche, C., 89g:81023**

Stelle, K. S. *see* **Howe, P. S.; et al., 89e:81108; Gandhi, S. K., 89m:81098** *and* **Boulware, David G.; et al., (89b:81008)**

Stora, R. Algèbres différentielles en théorie des champs. (English summary) [Differential algebras in field theory] **89b:81145**

Strominger, Andrew Point splitting regularization of classical string field theory. **89b:81108**

Takagi, Shin *see* **Redmount, Ian H., 89f:83064** *and* **Ottewill, Adrian, 89m:83053**

Tamanoi, Hirotaka *see* **Morava, Jack, 89c:58121**

Tanaka, Katsumi *see* **Mishra, V. K., 89c:81150**

Tchrakian, D. H. *see* **O'Brien, G. M., 89j:81108**

Thompson, Christopher Dynamics of cosmic string. **89e:83093**

Tkach, V. I. *see* **Volkov, D. V.; et al., (89d:81001)**

Tomboulis, E. T. On unitarity in renormalisable $\mathbf{R}^2_{\mu\nu}$ quantum gravity. (*see* **89b:81008**)

Toms, David J. *see* **Huggins, S. R.; et al., 89j:83040**

Valent, G. *see* **Olivier, Dominique, 89a:53087**

Vasil′ev, M. A. Free massless fields of arbitrary spin in the de Sitter space and initial data for a higher spin superalgebra. **89b:81094**

— Free massless fields of arbitrary spin in de Sitter space and initial data for a higher-spin superalgebra. **89e:81073**

van de Ven, Anton E. M. *see* **Miković, Aleksandar R., 89e:81071b**

Vincent, D. E. *see* **Gegenberg, J.; et al., 89j:81099**

Vişinescu, M. *see* **Ianuş, S., 89a:83059**

Volkov, D. V. (*with* Sorokin, D. P.; Tkach, V. I.) Spontaneous compactification of spaces of additional dimensions in supergravities with more than four dimensions. (Russian) (*see* **89d:81001**)

Warner, N. P. *see* **Lerche, W.; et al., 89g:81082**

Wheater, J. F. The instantons of surfaces in four dimensions. **89h:53134**

— *see also* **Duncan, M. J.; et al., 89j:83075**

Witt, D. M. *see* **Hartle, James B., 89f:83055**

Witten, Edward Topology and supersymmetric nonlinear sigma-models. **89m:58192**

Wu, You Lin *see* **Hu, Xing, 89g:83026**

Yang, Zhu *see* **Aragone, C.; et al., 89j:83067**

Yu, Yue *see* **Chen, Wei; et al., 89k:81072**

Yue, Rui Hong Solution of chiral QCD$_2$ in 1 + 1-dimensional curved spacetime. (Chinese. English summary) **89m:81186**

Zandron, O. *see* **Abecasis, C.; et al., 89m:53128**

Zel′dovich, Ya. B. *see* **Grishchuk, L. P.; et al., 89b:83052**

Zupnik, B. M. (*with* Pak, D. G.) A superfield formulation of the simplest three-dimensional gauge theories and of conformal supergravities. **89j:81120**

Items listed otherwise than by author

Lecture Notes in Physics ★ Renormalization of quantum field theories with nonlinear field transformations. **89g:81058**

Renormalization of quantum field theories with nonlinear field transformations ★ Renormalization of quantum field theories with nonlinear field transformations. **89g:81058**

Tegernsee ★ Renormalization of quantum field theories with nonlinear field transformations. **89g:81058**

Workshop:

Renormalization of Quantum Field Theories with Nonlinear Field Transformations ★ Renormalization of quantum field theories with nonlinear field transformations. **89g:81058**

81E25 Lattice theories

Adler, Stephen L. Overrelaxation algorithms for lattice field theories. **89f:81142**

Ambjørn, Jan (*with* Durhuus, Bergfinnur; Fröhlich, Jürg; Jónsson, Thórdur) Regularized strings with extrinsic curvature. **89b:81164**

Aoki, Sinya Chiral gauge theories on a lattice. **89c:81089**

Azcoiti, V. Vacuum structure in nonabelian compact SU(N) gauge theories. **89g:81060**

Babelon, O. (*with* Langouche, F.) Supersymmetric sinh-Gordon and Liouville theories on the lattice. **89a:81100**

Baier, R. (*with* Lang, C. B.; Reusch, H.-J.) The renormalization flow in the adjoint SU(2) lattice Higgs model. (Not in MR)

Bałaban, Tadeusz Renormalization group approach to lattice gauge field theories. II. Cluster expansions. **89h:81150**

Bartels, J. (*with* Wu, Tai Tsun) Semiclassical analysis of the weak-coupling limit of SU(2) lattice gauge theory: the subspace of constant fields. **89m:81120**

Bernreuther, W. (*with* Göckeler, M.) Renormalization group and finite size effects in scalar lattice field theories. **89c:81090**

— (*with* Göckeler, M.; Kremer, Manfred) A finite size scaling analysis of the O(4)-invariant lattice φ^4 theory. **89c:81091**

Bitar, Khalil M. Partition function for finite-temperature lattice SU(2) gauge theory. A novel investigation of the phase transition. **89d:81081**

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Chang, Y. F. *see* **Karliner, Marek; et al., 89e:81125**

Chen, Hao *see* **Guo, Shuo Hong, 89e:81124**

Chen, Qi Zhou *see* **Guo, Shuo Hong; et al.**, (Not in MR)

Davies, C. T. H. *see* **Rossi, Pietro; et al., 89b:81169**

Dey, Bishwajyoti Nonlinear chains and kink-impurity interactions. (*see* **89b:00027**)

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Dorlas, T. C. Renormalization and the continuum limit. (*see* **89e:60005**)

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Durhuus, Bergfinnur *see* **Ambjørn, Jan; et al., 89b:81164**

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— *see also* **Ambjørn, Jan; et al., 89b:81164**

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Furnstahl, R. J. (*with* Serot, Brian D.) Lattice regularization of quantum partition functions. **89f:81143**

Göckeler, M. Geometrical methods in the study of topological effects on the lattice. **89k:81117**

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Hattori, Tetsuya *see* **Hattori, Kumiko; et al., 89k:81118**

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Ishida, Kazuhiro Exact method for nonlinear fermions on finite lattice: two dimensions. **89h:81152**

Ito, Keiichi R. Renormalization group methods on hierarchical lattices and beyond. **89i:81100**

— Renormalization group method on a hierarchical lattice of Dyson-Wilson type. **89g:81061**

Jarfi, M. *see* **Le Yaouanc, A.; et al., 89b:81167**

Jolicoeur, T. (*with* Lacaze, R.; Napoly, O.) Anomalies for compact symmetries and the nonabelian anomaly on the lattice. **89a:81103**

Jónsson, Thórdur *see* **Ambjørn, Jan; et al., 89b:81164**

Karliner, Marek (*with* Sharpe, Stephen R.; Chang, Y. F.) Zeroing in on SU(3). **89e:81125**

Kashiwa, Tarō *see* **Funakubo, Koichi, 89b:81165**

Kieu, T. D. Chiral anomalies and lattice fermionic regularisations. (*see* **89h:81005**)

Kijowski, Jerzy (*with* Rudolph, Gerd; Thielmann, Artur) Symplectic structure of a nonabelian Higgs model on the lattice. **89d:81082**
Kiritsis, Elias B. The $\hat{c} = \frac{2}{3}$ minimal $N = 1$ superconformal system and its realisation in the critical O(2) Gaussian model. **89e:81126**
Koibuchi, Hiroshi (*with* Yamada, Mitsuru) Holonomy and lattice simulation of topologically nontrivial gauge fields. **89m:81121**
Kondo, Kei-ichi Rigorous analyses on order parameters and charged states in the lattice abelian-Higgs model. **89h:81153**
— The phase transition generated by the radial mode of the scalar field in the lattice $Z(2)$ gauge-Higgs model. **89b:81166**
Koonin, S. E. *see* **Piekarewicz, J.; et al., 89b:81168**
Korshunov, S. E. Quantum diffusion of vortices in 2D lattice systems. **89h:81154**
Kosiński, P. *see* **Brihaye, Y., 89j:81150**
Kostov, Ivan (*with* Krzywicki, A.) On the entropy of random surfaces with arbitrary genus. **89a:81104**
— Two-point correlator for the $D = 1$ closed bosonic string. **89m:81122**
Kovács, Eve V. *see* **Bodwin, Geoffrey T., 89h:81151**
Kremer, Manfred *see* **Bernreuther, W.; et al., 89c:81091**
Krzywicki, A. *see* **Kostov, Ivan, 89a:81104**
Lacaze, R. *see* **Jolicoeur, T.; et al., 89a:81103**
Lang, C. B. *see* **Baier, R.; et al.,** (Not in MR)
Langouche, F. *see* **Babelon, O., 89a:81100**
Lavelle, M. J. *see* **Tuite, M. P., 89c:81096**
Lazrak, O. *see* **Le Yaouanc, A.; et al., 89b:81167**
Lee, I-Hsiu (*with* Shrock, Robert E.) Chiral symmetry properties of U(1) lattice gauge theory with scalar and fermion fields. **89m:81123**
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Lee, T. D. Difference equations and conservation laws. **89e:81127**
Lepage, G. P. *see* **Rossi, Pietro; et al., 89b:81169**
Le Yaouanc, A. (*with* Oliver, L.; Pène, O.; Raynal, J.-C.; Jarfi, M.; Lazrak, O.) Critical line of symmetry restoration in lattice SU(2) QCD. **89b:81167**
Liu, Jin Ming^1 *see* **Guo, Shuo Hong; et al.,** (Not in MR)
Lüscher, M. (*with* Weisz, P.) Scaling laws and triviality bounds in the lattice φ^4 theory. II. One-component model in the phase with spontaneous symmetry breaking. **89d:81083**
— (*with* Weisz, P.) Application of the linked cluster expansion to the n-component φ^4 theory. **89e:81128**
Marchetti, Pieralberto *see* **Fröhlich, Jürg, 89a:81102**
Menotti, P. (*with* Pelissetto, A.) General proof of Osterwalder-Schrader positivity for the Wilson action. **89e:81129**
Michael, C. (*with* Teper, M.) Universality and scaling in SU(2) lattice gauge theory. (Not in MR)
Migdal, A. A. *see* **Zmushko, V. V., 89j:81151**
Milton, Kimball A. *see* **Grose, Ted, 89c:81094**
Montvay, I. Bosonized dynamical fermions in $3 + 1$ dimensions. **89k:81120**
Müller, V. F. (*with* Schiemann, J.) Convergence of Migdal-Kadanoff iterations: a simple and general proof. **89m:81125**
Napoly, O. *see* **Jolicoeur, T.; et al., 89a:81103**
Neuberger, Herbert Adler's overrelaxation algorithm for Goldstone bosons. **89c:81095**
den Nijs, Marcel P. M. *see* **Blöte, Henk W. J., 89j:81149**
Oliver, L. *see* **Le Yaouanc, A.; et al., 89b:81167**
Pelissetto, A. *see* **Menotti, P., 89e:81129**
Pène, O. *see* **Le Yaouanc, A.; et al., 89b:81167**
Pertermann, D. (*with* Ranft, J.) Study of $Z(n)$ gauge theories on a three-dimensional pseudorandom lattice. **89f:81144**
Piekarewicz, J. (*with* Zirnbauer, M. R.; Koonin, S. E.) SU(2) lattice gauge theory in the electric-field representation. **89b:81168**
Ranft, J. *see* **Pertermann, D., 89f:81144**
Raynal, J.-C. *see* **Le Yaouanc, A.; et al., 89b:81167**
Reisz, Thomas A power counting theorem for Feynman integrals on the lattice. **89g:81062**
Reusch, H.-J. *see* **Baier, R.; et al.,** (Not in MR)
Rossi, Pietro (*with* Davies, C. T. H.; Lepage, G. P.) A comparison of a variety of matrix inversion algorithms for Wilson fermions on the lattice. **89b:81169**
Rudolph, Gerd *see* **Kijowski, Jerzy; et al., 89d:81082**
Saleur, H. Partition functions of the two-dimensional Ashkin-Teller model on the critical line. **89e:81130**
Schiemann, J. *see* **Müller, V. F., 89m:81125**
Serot, Brian D. *see* **Furnstahl, R. J., 89f:81143**
Sharpe, Stephen R. *see* **Karliner, Marek; et al., 89e:81125**
Shrock, Robert E. *see* **Von Löhneysen, L.; et al., 89d:81084; Lee, I-Hsiu, 89m:81123** *and* **89m:81124**
Smit, Jan (*with* Vink, Jeroen C.) Renormalized Ward-Takahashi relations and topological susceptibility with staggered fermions. **89b:81170**
— (*with* Vink, Jeroen C.) Topological charge and fermions in the two-dimensional lattice U(1) model. I. Staggered fermions. **89f:81145**
Stamatescu, I. O. *see* **Von Löhneysen, L.; et al., 89d:81084**
Suzuki, Masuo *see* **Inoue, Makoto**^{2}**, 89k:81119**
Szlachányi, Kornél Charged sectors in the tetrahedral Higgs model. **89f:81146**
Teper, M. *see* **Michael, C.,** (Not in MR)
Testa, M. Chiral symmetry on the lattice with Wilson fermions. **89k:81121**
Thielmann, Artur *see* **Kijowski, Jerzy; et al., 89d:81082**
Trivedi, Anil K. Evidence of ultraviolet divergence on the lattice. **89h:81155**
Tuite, M. P. (*with* Lavelle, M. J.) Stochastic quantisation and gauge fixing for nonabelian lattice gauge theories. **89c:81096**
Vilela Mendes, Rui Euclidean gauge fields in four dimensions from stochastic differential equations. **89e:81131**
— Nonequivalent stochastic models in lattice gauge theory. **89g:81063**
— *see also* **Eleutério, S. M., 89a:81101** *and* **89c:81093**
Vink, Jeroen C. Topological charge and fermions in the two-dimensional lattice U(1) model. II. Wilson fermions. **89k:81122**
— *see also* **Smit, Jan, 89b:81170** *and* **89f:81145**
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Watanabe, Hiroshi^2 *see* **Hattori, Kumiko; et al., 89k:81118**
Weisz, P. *see* **Lüscher, M., 89d:81083** *and* **89e:81128**
Wu, Tai Tsun *see* **Bartels, J., 89m:81120**
Xue, She Sheng Stochastic fermions on the lattice. **89a:81156**
— A mean field solution to the Fokker-Planck equation in lattice gauge theories. (Chinese. English summary) **89f:81147**
Yamada, Mitsuru *see* **Koibuchi, Hiroshi, 89m:81121**
Yang, Sung-Kil (*with* Zheng, Hai Bin) Superconformal invariance in the two-dimensional Ashkin-Teller model. **89h:81156**
Zheng, Hai Bin *see* **Yang, Sung-Kil, 89h:81156**
Zhizhina, E. A. Excited one-particle states of the transfer matrix of a lattice gauge Yang-Mills field with gauge group U(1). **89c:81097**
Zirnbauer, M. R. *see* **Piekarewicz, J.; et al., 89b:81168**
Zmushko, V. V. (*with* Migdal, A. A.) Generation of triangulated random surfaces by the Monte Carlo method in the grand canonical ensemble. **89j:81151**

Items with secondary classifications in 81E25

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Barsky, David J. *see* **Aizenman, Michael; et al., 89f:82013**
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Burkitt, A. N. (*with* Irving, A. C.) Identity of the conjugate gradient and Lanczos algorithms for matrix inversion in lattice fermion calculations. **89c:81006**
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Date, E. (*with* Jimbo, Michio; Kuniba, A.; Miwa, Tetsuji; Okado, Masato) Exactly solvable SOS models: local height probabilities and theta function identities. **89d:82114**
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— *see also* **Katz, G. R.; et al., 89g:81004b**
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Dotsenko, Vl. S. (*with* Polyakov, A. M.) Fermion representations for the 2D and 3D Ising models. **89m:82075**
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Falck, N. K. *see* **Bartels, J., 89j:81055**
Federbush, Paul A phase cell approach to Yang-Mills theory. VI. Nonabelian lattice-continuum duality. (French summary) **89h:81103**
Fernández, Roberto *see* **Aizenman, Michael; et al., 89f:82013**
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de Forcrand, Philippe *see* **Gupta, Rajan; et al., 89h:81007**
Fredenhagen, Klaus *see* **Barata, João C. A., 89e:81078**
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Gölzer, B. (*with* Holz, A.) Exact solutions to anisotropic SU($\mathcal{N} \geq 3$) chains. **89a:82042**
González-Arroyo, A. (*with* Salas, J.) Computing the couplings of Ising systems from Schwinger-Dyson equations. **89k:82031**
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Hara, Takashi (*with* Tasaki, Hal) Rigorous renormalization group analysis of φ^4 field theory. **89d:81055**
Hasenfratz, Anna *see* **Decker, Karsten; et al., 89g:82022b**
Hasenfratz, Peter *see* **Decker, Karsten; et al., 89g:82022b**
Holz, A. *see* **Gölzer, B., 89a:82042**

Horn, David (*with* Langeveld, W. G. J.; Quinn, H. R.; Weinstein, Marvin) Operator renormalization group. **89j:81005**
Imbrie, John Z. *see* **Bałaban, Tadeusz; et al., 89e:81077**
Irving, A. C. *see* **Burkitt, A. N., 89c:81006**
Izergin, A. G. *see* **Bogolyubov, N. M.; et al., 89b:82020**
Jaffe, Arthur *see* **Bałaban, Tadeusz; et al., 89e:81077**
Jimbo, Michio *see* **Date, E.; et al., 89d:82114**
Johannesson, Henrik Universality classes of critical antiferromagnets. **89k:82096**
— Central charge for the integrable higher-spin XXZ model. **89m:82077**
Johnson, James Daniel *see* **Baker, George A., Jr., 89g:81038**
Jolicoeur, T. *see* **Hansel, D.; et al., 89f:82078**
Kaku, Michio Generally covariant lattices, the random calculus, and the strong coupling approach to the renormalisation of gravity. **89k:83052**
Kardar, Mehran (*with* Nelson, David R.) Statistical mechanics of self-avoiding tethered manifolds. **89f:82052**
Kashiwara, Masaki Algebraic analytical research applied in mathematical physics. (Japanese) **89g:58191**
Katz, G. R. (*with* Batrouni, G.; Davies, C. T. H.; Kronfeld, A.; Lepage, G. P.; Rossi, Pietro; Svetitsky, B.; Wilson, K.) Fourier acceleration in lattice gauge theories. II. Matrix inversion and the quark propagator. **89g:81004b**
— *see also* **Davies, C. T. H.; et al., 89g:81004a**
Kennedy, Tom *see* **Brydges, D. C., 89f:82004**
Kilcup, Gregory W. *see* **Gupta, Rajan; et al., 89h:81007**
King, Christopher K. Meson masses in lattice QCD at strong coupling. (*see* **89g:81002**)
Kleinert, H. (*with* Miller, Wolfram) Renormalization of charge due to magnetic monopoles in the Villain form of U(1) lattice gauge theory. **89h:81108**
Klimek, S. (*with* Kondracki, W.) A construction of two-dimensional quantum chromodynamics. **89g:81046**
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— Inconsistency of the $\lambda\Phi^4$ field theory in high dimensions constructed from the broken-symmetry phase. **89m:81087**
Kondracki, W. *see* **Klimek, S., 89g:81046**
Kronfeld, A. *see* **Davies, C. T. H.; et al., 89g:81004a** *and* **Katz, G. R.; et al., 89g:81004b**
Kuniba, A. *see* **Date, E.; et al., 89d:82114**
Langeveld, W. G. J. *see* **Horn, David; et al., 89j:81005**
Lepage, G. P. *see* **Davies, C. T. H.; et al., 89g:81004a** *and* **Katz, G. R.; et al., 89g:81004b**
Maillard, J.-M. *see* **Hansel, D.; et al., 89f:82078**
Makeenko, Yu. M. Renormalization group in lattice gauge theories. (Russian. English summary) (*see* **89a:81002**)
Manton, N. S. Connections on discrete fibre bundles. **89a:81075**
Marchetti, Pieralberto *see* **Fröhlich, Jürg, 89m:81086**
Marston, J. Brad U(1) gauge theory of the Heisenberg antiferromagnet. **89h:82049**
Martins, Márcio J. *see* **Alcaraz, Francisco C., 89m:82069**
Midtdal, J. *see* **Fjeldsø, N.; et al., 89g:82006**
Miller, Wolfram *see* **Kleinert, H., 89h:81108**
Miwa, Tetsuji *see* **Date, E.; et al., 89d:82114**
Moriarty, K. J. M. *see* **Brower, Richard C.; et al.**, (**89c:65005**)
Murthy, Ganpathy N. Critical behavior of the N-component Ashkin-Teller model with bond impurities. **89b:82115**
Myers, Eric *see* **Brower, Richard C.; et al.**, (**89c:65005**)
Nelson, David R. *see* **Kardar, Mehran, 89f:82052**
Okado, Masato *see* **Date, E.; et al., 89d:82114**
Olmedilla, Eugenio (*with* Wadati, Miki) Conserved quantities for spin models and fermion models. **89f:82088**
Orland, Peter World-sheet action for the three-dimensional Ising model. **89b:82117**
Patel, Apoorva *see* **Gupta, Rajan; et al., 89h:81007**
Plechko, V. N. A fermion functional integral in two-dimensional Ising models on decorated lattices. (Russian) **89m:82085**
Plokhotnikov, K. È. Discrete space-time and quantum electrodynamics. (Russian) **89h:81282**
Polyakov, A. M. *see* **Dotsenko, Vl. S., 89m:82075**
Popowicz, Ziemowit Recent results in Toda lattice. **89h:58215**
Quinn, H. R. *see* **Horn, David; et al., 89j:81005**
Ravndal, F. *see* **Fjeldsø, N.; et al., 89g:82006**
Rebbi, Claudio *see* **Brower, Richard C.; et al.**, (**89c:65005**)
Rehren, K.-H. (*with* Schroer, Bert) Exchange algebra on the light-cone and order/disorder $2n$-point functions in the Ising field theory. **89a:81051**
Reisz, Thomas Renormalization of Feynman integrals on the lattice. **89i:81083**
— Renormalization of lattice Feynman integrals with massless propagators. **89m:81111**
Renteln, Paul A new lattice regularization for quantum gravity. (*see* **89m:83003**)
Reshetikhin, N. Yu. *see* **Bogolyubov, N. M.; et al., 89b:82020**
Rossi, Pietro *see* **Davies, C. T. H.; et al., 89g:81004a** *and* **Katz, G. R.; et al., 89g:81004b**
Salas, J. *see* **González-Arroyo, A., 89k:82031**
Saleur, H. Correlation functions of the critical Ashkin-Teller model on a torus. **89h:82053**
Schellekens, A. N. Multiloop modular invariance of the covariant lattice construction of fermionic strings. **89d:81112**
Schempp, Walter The oscillator representation of the metaplectic group applied to quantum electronics and computerized tomography. **89k:22013**
Schroer, Bert *see* **Rehren, K.-H., 89a:81051**
Sharpe, Stephen R. *see* **Gupta, Rajan; et al., 89h:81007**
Sklyanin, E. K. Boundary conditions for integrable quantum systems. **89h:81258**
Sokal, Alan D. *see* **Edwards, Robert G., 89i:82003**
Sugiyama, Yūki *see* **Kondo, Kei-ichi, 89d:82014**
Svetitsky, B. *see* **Davies, C. T. H.; et al., 89g:81004a** *and* **Katz, G. R.; et al., 89g:81004b**
Tasaki, Hal *see* **Hara, Takashi, 89d:81055**
Verbaarschot, J. J. M. Graded symmetry and Anderson localization on the Bethe lattice for time-reversal invariant systems. **89f:82095**
Volkov, A. Yu. The Miura transformation on a lattice. **89g:58186**
Wadati, Miki *see* **Olmedilla, Eugenio, 89f:82088**
Weinstein, Marvin *see* **Horn, David; et al., 89j:81005**
Wilson, K. *see* **Davies, C. T. H.; et al., 89g:81004a** *and* **Katz, G. R.; et al., 89g:81004b**
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Ziegler, Klaus The $(n = 0)$-component Gross-Neveu model as a description of polymers in two dimensions. **89i:82062**
Zirnbauer, M. R. Migdal-Kadanoff fixed point of the graded nonlinear σ model for disordered single-particle systems without time-reversal symmetry. **89d:82023**

81E30 String and superstring theories (use only for secondary classification)

Items with secondary classifications in 81E30

Abad, J. (*with* Rodriguez-Trías, R.) Study of the BRS charge in the Polyakov string by the Kugo-Ojima method. **89f:81148**
Abdalla, E. (*with* Lima Santos, A.) Factorizable S-matrix for $\mathrm{SO}(D)/\mathrm{SO}(2) \otimes \mathrm{SO}(D-2)$ nonlinear σ models with fermions. **89a:81056**
Abe, Mitsuko (*with* Kubota, Hiroshi; Sakai, Norisuke) Loop corrections to the $E_8 \times E_8$ heterotic string effective Lagrangian. **89f:81149**
— (*with* Kubota, Hiroshi; Sakai, Norisuke) Loop corrections to the heterotic string effective Lagrangian. **89h:81157a**
— (*with* Kubota, Hiroshi; Sakai, Norisuke) Addendum: "Loop corrections to the heterotic string effective Lagrangian". **89h:81157b**
— *see also* **Sakai, Norisuke, 89h:81229**
Achúcarro, A. (*with* Evans, J. M.; Townsend, P. K.; Wiltshire, D. L.) Super p-branes. **89f:83082**
Ader, J. P. (*with* Wallet, J. C.) Beltrami parametrization and gauged BRST symmetry for the free bosonic string. **89e:81132**
— (*with* Bouda, A.; Wallet, J. C.) Perturbative BRST current algebra anomalies for the free bosonic string. **89j:81076**
Ahmed, Elsayed Mohamed Two-dimensional percolation and classical string theory. **89j:82048**
— Interacting superstrings at finite temperature. **89a:81106**
Aldazabal, Gerardo (*with* Bonini, M.; Iengo, R.; Núñez, Carmen) Intrinsic normal-ordered vertex operators from the multiloop N-tachyon amplitude. **89h:81158**
Altschüler, D. (*with* Lacki, J.; Zaugg, Ph.) The affine Weyl group and modular invariant partition functions. **89c:17014**
Alvarez, Orlando (*with* Windey, P.) The geometrical meaning of currents in string theory. (*see* **89m:81001**)
Alvarez-Gaumé, L. Geometrical methods in the quantum theory of fields and strings. (*see* **89f:81005**)
— Operator methods in string theory. **89k:81124**
— (*with* Gómez, César; Moore, Gregory W.; Vafa, Cumrun) Strings in the operator formalism. **89b:81171**
— (*with* Nelson, Philip C.; Gómez, César; Sierra, Germán; Vafa, Cumrun) Fermionic strings in the operator formalism. **89m:81126**
de Alwis, S. P. (*with* Grisaru, Marcus T.; Mezincescu, Luca) Quantization and unitarity in antisymmetric tensor gauge theories. **89g:81042**
— (*with* Ohta, Nobuyoshi) Gauge fixing in fully gauge-invariant field theory of closed bosonic and Neveu-Schwarz strings. **89a:81057**
Ambjørn, Jan (*with* Durhuus, Bergfinnur; Fröhlich, Jürg; Jónsson, Thórdur) Regularized strings with extrinsic curvature. **89b:81164**
— (*with* Durhuus, Bergfinnur; Jónsson, Thórdur) Statistical mechanics of paths with curvature-dependent action. **89f:82040**
Andreev, O. D. (*with* Tseytlin, A. A.) Two-loop beta function in the open string sigma model and equivalence with string effective equations of motion. **89i:81077**
— (*with* Tseytlin, A. A.) Partition-function representation for the open superstring effective action: cancellation of Möbius infinities and derivative corrections to Born-Infeld Lagrangian. **89k:81125**
— (*with* Tseytlin, A. A.) Generating functional for scattering amplitudes and the effective action in the open superstring theory. **89f:81151**
Antoniadis, I. (*with* Bachas, C.) 4d fermionic superstrings with arbitrary twists. **89d:81085**
— (*with* Ditsas, P.; Floratos, E. G. F.; Iliopoulos, J.) New realizations of the Virasoro algebra as membrane symmetries. **89i:17012**
— (*with* Ellis, Jonathan Richard; Hagelin, J. S.; Nanopoulos, D. V.) Cut model-building with fermionic four-dimensional strings. **89k:81190**
Aoyama, Hideaki $\mathrm{OSp}(1,1|4)$ BRST-symmetry for string field with the world-sheet metric. **89a:81107**
— $\mathrm{OSp}(2,2|4)$ for open-string fields. **89h:81159**
Aoyama, S. (*with* Hong Tuan, R.) Conformally invariant U(1)-gauge theory in two dimensions. **89b:81112**
— Nonlinear realization of the Virasoro-Kac-Moody algebras and the anomalies. **89h:22039**
Aragone, C. Stringy characteristics of effective gravity. **89d:83035**
Arakawa, Kouichi (*with* Maeno, Masahiro) Bosonization of superstring. **89a:81108**
Arakelyan, T. A. (*with* Savvidi, G. K.) Cocycles of area-preserving diffeomorphisms and anomalies in the theory of relativistic surfaces. **89j:81154**
Aratyn, Henrik (*with* Ingermanson, Randall; Niemi, Antti J.) Covariant canonical superstrings. **89b:81172**
— (*with* Ingermanson, Randall; Niemi, Antti J.) $\mathrm{OSp}(1,1/2)$ and Parisi-Sourlas supersymmetry for closed strings. **89a:81110**
— (*with* Ingermanson, Randall; Niemi, Antti J.) Parisi-Sourlas fermions from Ramond superstring. **89a:81111**
— (*with* Ingermanson, Randall; Niemi, Antti J.) Interacting field theory of relativistic point particles. **89c:81100**
— (*with* Ingermanson, Randall) Abelising the Virasoro operators. **89j:58025**
— (*with* Ingermanson, Randall) Algebraic approach to the geometry of the (super-) string model. **89f:81153**
— (*with* Ingermanson, Randall) Geometric interpretation of the string vertex operator. **89m:81127**
(**Arcuri, R.**) *see* **Olive, D. I., 89c:17027**

Aref'eva, I. Ya. (*with* Medvedev, P. B.) Field theory of interacting open superstrings in fermionic ghost representation. **89k:81126**
— (*with* Medvedev, P. B.) Truncation, picture-changing operation and spacetime supersymmetry in Neveu-Schwarz-Ramond string field theory. **89j:81155**
— (*with* Medvedev, P. B.) Anomalies in Witten's field theory of the NSR string. **89m:81128**
Arik, M. (*with* Neyzi, Fahrünisa) Grassmannian σ-models and strings. **89f:81154**
Asada, Akira Nonabelian de Rham theory. **89m:58005**
Atick, Joseph J. (*with* Rabin, Jeffrey M.; Sen, Ashoke) An ambiguity in fermionic string perturbation theory. **89f:81156**
— (*with* Moore, Gregory W.; Sen, Ashoke) Some global issues in string perturbation theory. **89j:81156**
Awada, M. A. (*with* Chamseddine, A. H.) Superstring and graded Grassmannians. **89f:81157**
Axenides, Minos (*with* Ellis, Stephen D.; Kounnas, Costas) Universal behavior of D-dimensional superstring models. **89c:81101**
Babul, Arif (*with* Piran, Tsvi; Spergel, David N.) Bosonic superconducting cosmic strings. I. Classical field theory solutions. **89b:83098**
— (*with* Piran, Tsvi; Spergel, David N.) Superconducting cosmic strings. II. Spacetime curvature. **89j:83091**
Bachas, C. *see* **Antoniadis, I., 89d:81085**
Bagger, J. A. Strings without string. **89h:81161**
Bailin, David (*with* Love, Alex; Thomas, Steven) Generalised GSO projections for Z-orbifold heterotic string compactifications with "Wilson lines". **89d:83060**
— (*with* Love, Alex; Thomas, Steven) Orbifold compactified superstring models with tetrahedral and octahedral point groups. **89a:81167**
— (*with* Love, Alex) Four-dimensional heterotic string models with SU(5) and SO(10) grand unification. **89c:81194**
— (*with* Dunbar, David C.; Love, Alex) Four-dimensional heterotic string models with rank ≤ 6 observable gauge group. **89i:81145**
— (*with* Dunbar, David C.; Love, Alex) Yukawa couplings in four-dimensional fermionic string models. (Not in MR)
Bakas, I. (*with* McMullan, D.) Group theoretical quantization on loop spaces and the Sugawara construction. **89h:81079**
— Conformal invariance, the KdV equation and coadjoint orbits of the Virasoro algebra. **89k:81054**
— Remarks on the quantization of conformal fields. **89e:81133**
Balog, J. (*with* Forgács, P.; Horváth, Z.; Vecsernyés, P.) Lattice classification of the four-dimensional heterotic strings. **89b:81245**
Banks, Thomas (*with* Dixon, Lance J.; Friedan, D.; Martinec, Emil) Phenomenology and conformal field theory or can string theory predict the weak mixing angle? **89b:81244**
— (*with* Dixon, Lance J.) Constraints on string vacua with spacetime supersymmetry. **89h:81163**
Bántay, P. Orbifold compactification of heterotic string theories. **89h:81164**
Baranov, M. A. (*with* Shvarts, A. S.) On the multiloop contribution to the string theory. **89e:81134**
Barbashov, B. M. (*with* Chervyakov, A. M.) A geometric method for solving a boundary value problem in the theory of a relativistic string with masses on the ends. **89j:81157**
Barbero, F. (*with* Julve, J.; Tiemblo, A.; Tresguerres, R.) Dynamical approach to conformal gravity and the bosonic string effective action. **89m:81089**
Bardakci, K. (*with* Rabinovici, E.; Säring, B.) String models with $c < 1$ components. **89f:81159**
Bars, Itzhak (*with* Yankielowicz, Shimon) The string field embedded in a loop space geometry. **89b:81116**
— (*with* Pope, C. N.; Sezgin, E.) Massless spectrum and critical dimension of the supermembrane. **89b:81152**
— First massive level and anomalies in the supermembrane. **89j:81159**
— (*with* Pope, C. N.; Sezgin, E.) Central extensions of area preserving membrane algebras. **89j:81158**
Batalin, I. A. The Fradkin operator method. **89h:81060**
Baulieu, Laurent (*with* Bellon, M.; Grimm, Richard) Beltrami parametrization for superstrings. **89e:81135**
— (*with* Bellon, M.) Beltrami parametrization and string theory. **89g:81066**
— (*with* Bergshoeff, Eric; Sezgin, E.) Open BRST algebras, ghost unification and string field theory. **89k:81127**
— (*with* Bellon, M.) BRST symmetry for finite-dimensional invariances: applications to global zero modes in string theory. **89c:81071**
Becchi, C. On the covariant quantization of the free string: the conformal structure. **89j:81160**
de Beer, Willem Conformal counterterms and boundary conditions for open strings. **89k:81128**
Beĭlinson, A. A. (*with* Manin, Yu. I.; Shekhtman, V. V.) Sheaves of the Virasoro and Neveu-Schwarz algebras. **89j:58039**
Belavin, A. A. (*with* Knizhnik, V. G.; Morozov, A. Yu.; Perelomov, A. M.) Two- and three-loop amplitudes in bosonic string theory. **89h:81165**
Bellon, M. *see* **Baulieu, Laurent, 89c:81071; 89e:81135** *and* **89g:81066**
Bellucci, Stefano (*with* Gates, S. James, Jr.) $D = 10$, $N = 1$ superspace supergravity and the Lorentz Chern-Simons form. **89e:83077**
Bengtsson, Anders K. H. (*with* Bengtsson, Ingemar; Cederwall, M.; Linden, Noah) Particles, superparticles, and twistors. **89b:81088**
Bengtsson, Ingemar The fermionic gauge symmetry in the Green-Schwarz action. **89a:81168**
— *see also* **Bengtsson, Anders K. H.; et al., 89b:81088**
Bergshoeff, Eric (*with* Duff, M. J.; Pope, C. N.; Sezgin, E.) Supersymmetric supermembrane vacua and singletons. **89f:83083**
— (*with* Sezgin, E.; Tanii, Yoshiaki) Hamiltonian formulation of the supermembrane. **89c:81102**
— (*with* Salam, A.; Sezgin, E.; Tanii, Yoshiaki) $N = 8$ supersingleton quantum field theory. **89j:81136**
— (*with* Salam, A.; Sezgin, E.; Tanii, Yoshiaki) Singletons, higher spin massless states and the supermembrane. **89d:83061**
— *see also* **Baulieu, Laurent; et al., 89k:81127**
Berkovits, Nathan Supersheet functional integration and the interacting Neveu-Schwarz string. **89f:81160**
Bern, Z. (*with* Shimada, T.) Field redefinitions and Chern-Simons terms in the heterotic string. **89c:81103**
— (*with* Dunbar, David C.) Coupling of open to closed bosonic strings in four dimensions. **89f:81161**
Bershadskiĭ, M. A. Off-shell string amplitudes and singular states in bosonic string theory. **89b:81174**
— (*with* Radul, A.) g-loop amplitudes in bosonic string theory in terms of branch points. **89e:81136**
— Off-shell states in the theory of a bosonic string. **89g:81068**
— The superbranch points and two-loop correction in the heterotic string theory. **89f:81128**
— The loop measure over supermoduli space. **89d:81086**
Bilal, Adel (*with* Gervais, Jean-Loup) Modular invariance for closed strings at the new critical dimensions. **89a:81113**
— (*with* Gervais, Jean-Loup) Liouville superstring and Ising model in three dimensions. **89e:81137**
Biran, B. (*with* Floratos, E. G. F.; Savvidi, G. K.) The self-dual closed bosonic membranes. **89g:81069**
Birmingham, Danny (*with* Torre, C. G.) Functional integral construction of the BRST invariant string ground state. **89c:81104**
Blau, Steven K. (*with* Clements, Minot; Della Pietra, Stephen; Carlip, Steven; Della Pietra, Vincent) The string amplitude on surfaces with boundaries and crosscaps. **89h:81168**
Blencowe, M. P. (*with* Duff, M. J.) Supersingletons. **89j:81163**
Bochicchio, Marco BRST quantization of superstring field theory. **89c:81105**
Bogojević, Aleksandar R. BRST invariance of the measure in string field theory. **89a:81114**
Bonini, M. (*with* Iengo, R.) Correlation functions and zero modes on higher genus Riemann surfaces. **89h:81169**
— *see also* **Aldazabal, Gerardo; et al., 89h:81158**
Bonora, L. (*with* Cotta-Ramusino, P.; Rinaldi, M.; Stasheff, James) The evaluation map in field theory, sigma-models and strings. I. **89d:53120**
— (*with* Martellini, M.; Viallet, C.-M.) Bosonic strings and complex structures. **89e:81138**
— (*with* Cotta-Ramusino, P.; Rinaldi, M.) Generalized Wess-Zumino terms and global anomalies in string sigma models. **89h:81141**
— (*with* Cotta-Ramusino, P.; Rinaldi, M.) Generalized Wess-Zumino terms. (*see* **89g:81058**)
— (*with* Cotta-Ramusino, P.; Rinaldi, M.; Stasheff, James) The evaluation map in field theory, sigma-models and strings. II. **89d:53121**
— (*with* Bregola, M.; Lechner, K.; Pasti, P.; Tonin, M.) Anomaly-free supergravity and super-Yang-Mills theories in ten dimensions. **89c:83050**
Borodulin, V. I. (*with* Zorin, O. L.; Pron'ko, G. P.; Razumov, A. V.; Solov'ev, L. D.) A string model of hadrons and of their interactions. (Russian) (*see* **89d:81001**)
Bost, J.-B. Conformal and holomorphic anomalies on Riemann surfaces and determinant line bundles. **89h:58178**
Bouda, A. Gauged BRS symmetry for the Weyl×Lorentz×diffeomorphism group. **89k:81098**
— *see also* **Ader, J. P.; et al., 89j:81076**
Bowick, M. J. (*with* Rajeev, S. G.) The holomorphic geometry of closed bosonic string theory and $\operatorname{Diff} S^1/S^1$. **89a:81085**
— (*with* Rajeev, S. G.) The complex geometry of string theory and loop space. **89h:81074**
Braden, H. W. Extending $N = \frac{1}{2}$ supersymmetries. **89d:81122**
Bregola, M. *see* **Bonora, L.; et al., 89c:83050**
Brekke, Lee (*with* Freund, Peter G. O.; Olson, Mark; Witten, Edward) Non-Archimedean string dynamics. **89k:81131**
Bressloff, P. C. (*with* Taylor, John G.; Restuccia, A.) A functional light-cone gauge construction of a bosonic string compactified on a torus. **89j:81164**
Brink, Lars (*with* Henneaux, M.) ★ Principles of string theory. **89i:81001**
— *see also* **Unification of fundamental interactions, 89f:81005**
Brooks, Roger (*with* Gates, S. James, Jr.) NSR BRST. **89a:81116**
— *see also* **Gates, S. James, Jr.; et al., 89c:81123**
Brustein, Ram (*with* Nemeschansky, Dennis; Yankielowicz, Shimon) Beta functions and S-matrix in string theory. **89h:81170**
Budinich, P. (*with* Dąbrowski, L.; Furlan, P.) Minimal surfaces and strings from spinors: a realization of the Cartan programme. (Italian summary) **89b:53012**
Bullinaria, J. A. Comment on Jourjine's space-time Dirac-Kähler spinors and string model: "Space-time Dirac-Kähler spinors" [Phys. Rev. D (3) **35** (1987), no. 2, 757–758; MR 88c:81044] and "String model with Dirac-Kähler spinors" [ibid. D (3) **34** (1986), no. 4, 1217–1218; MR 87i:81212] by A. Jourjine. **89b:81080**
Burgess, C. P. (*with* Morris, T. R.) Open and unoriented strings à la Polyakov. **89d:81087a**
— (*with* Morris, T. R.) Open superstrings à la Polyakov. **89d:81087b**
Bytsenko, A. A. *see* **Goncharov, Yu. P., 89e:83083**
Cai, Yunhai (*with* He, Anming) Scattering amplitude for Witten's open superstring field theory. **89a:81117**
— *see also* **Polchinski, J., 89i:81125**
Callan, Curtis G., Jr. Strings in background fields. (*see* **89f:81005**)
Calucci, Giorgio Effective Lagrangian for low-lying states of interacting bosonic strings. **89f:81162**
Campostrini, Massimo (*with* Curci, Giuseppe; Rossi, Paolo^{1}) The Gross-Neveu model and the pseudofermion algorithm. **89k:81132**
Candelas, P. Yukawa couplings between (2, 1)-forms. (*see* **89m:81001**)
Carlip, Steven Sewing closed string amplitudes. **89j:81165**
— Quadratic differentials and closed string vertices. **89j:81166**
— *see also* **Blau, Steven K.; et al., 89h:81168**
Carow-Watamura, Ursula (*with* Watamura, Satoshi) N-string vertex, canonical forms and bosonization. **89e:81139**
— (*with* Ezawa, Z. F.; Watamura, Satoshi) N-loop superstring amplitude from Feynman-like rules; spin structures including Ramond sector, handle operator and g-vacuum. **89k:81133**
Casas, J. A. (*with* Muñoz, C.) Three-generation $\mathrm{SU}(3) \times \mathrm{SU}(2) \times \mathrm{U}(1)_Y \times \mathrm{U}(1)$ orbifold

models through Fayet-Iliopoulos terms. **89f:81249**
— (*with* Muñoz, C.) Inflation from superstrings. **89m:83099**
Castagnino, Mario *see* **Mazzitelli, F. D.; et al., 89a:81105**
Castellani, L. String field theory as general relativity of loops. **89m:81131**
Cecotti, S. (*with* Ferrara, S.; Villasante, M.) Linear multiplets and super Chern-Simons forms in 4D supergravity. **89f:83097**
— (*with* Ferrara, S.; Girardello, L.) Gravitational supervertices in $n = 1$, 4D superstrings. **89a:81118**
— (*with* Ferrara, S.; Girardello, L.; Pasquinucci, A.; Porrati, Massimo) Matter-coupled supergravity with Gauss-Bonnet invariants: component Lagrangian and supersymmetry breaking. **89j:83072**
— (*with* Ferrara, S.; Girardello, L.) Hidden noncompact symmetries in string theory. **89k:81134**
— (*with* Ferrara, S.; Girardello, L.) A topological formula for the Kähler potential of 4D $N = 1, 2$ strings, and its implications for the moduli problem. **89m:53131**
Cederwall, M. Interactions in new string theories. **89a:81119**
— *see also* **Bengtsson, Anders K. H.; et al., 89b:81088**
Chaichian, Masud (*with* Fischer, Jan) Unitarity of the scattering amplitude in higher dimension. **89f:81163**
Chamseddine, A. H. (*with* Derendinger, J.-P.) Twisted superstrings in four dimensions. **89e:81087**
— (*with* Derendinger, J.-P.; Quirós, M.) Nonsupersymmetric four-dimensional strings. **89k:81135**
— *see also* **Awada, M. A., 89f:81157**
Chang, Darwin (*with* Kumar, Alok^2) Uniqueness of 10-dimensional superstring models in the fermionic construction. **89g:81070**
— (*with* Kumar, Alok^2) Gauge symmetry breaking by Thirring interaction in fermionic construction of superstring models. **89i:81105**
Chang, Mei Chu (*with* Ran, Z.) Divisors on $\overline{\mathscr{M}}_g$ and the cosmological constant. (*see* **89m:81001**)
Chang, Ngee-Pong (*with* León, Juan; Pérez-Mercader, Juan) $\mathrm{STr}M^2$ sum rule for a general class of Kähler potentials. **89e:83068**
— (*with* Li, Da-Xi) Models of nonabelian orbifolds. **89f:81250**
— (*with* Li, Da-Xi; Pérez-Mercader, Juan) Cosmological constant and asymmetric orbifolds. **89i:83055**
Chapline, George F. Unification of Yang-Mills theory and superstrings. **89c:81108**
Chaudhuri, Shyamoli (*with* Kawai, Hikaru; Tye, S.-H. H.) Path-integral formulation of closed strings. **89d:81088**
Chaves, Máximo Superstrings and the quantization of gravity. (Spanish. English summary) **89c:83035**
Cheeger, Jeff On the formulas of Atiyah-Patodi-Singer and Witten. **89g:58224**
Chen, Wei (*with* Guo, Han Ying; Hu, Hong Liang; Yu, Yue) Remarks on superstring field theories. II. **89h:81172**
— (*with* Guo, Han Ying; Hu, Hong Liang; Yu, Yue) Symmetry, cohomology and string field theories—a Fock space formalism. **89k:81072**
— (*with* Huang, Chao Shang; Zhao, Wei Dong) Modular invariance of twisted string theories on group manifolds. **89h:81173**
Chen, Yi Xin *see* **Liu, Bang Gui, 89f:81193** *and* **89k:81160**
Cheng, Yi Xin Nilpotency of BRST charge in weak background fields. **89k:81136**
Chervyakov, A. M. *see* **Barbashov, B. M., 89j:81157**
Chung, K.-W. (*with* Sudbery, A.) Octonions and the Lorentz and conformal groups of ten-dimensional space-time. **89a:81169**
Chung, Ki Soo (*with* Han, Chang Woo; Kim, Jae Kwan; Koh, I. G.) Becchi-Rouet-Stora structure and gauge-invariant actions for higher-spin fields. **89j:81096**
Clarizia, A. (*with* Pezzella, F.) N-reggeon vertex for the Neveu-Schwarz string. **89c:81109**
— (*with* Pezzella, F.) BRST invariant mixed string vertex for the bosonic string. **89j:81097**
Clavelli, L. Parity odd effects in open superstring theory. (*see* **89a:81005**)
— (*with* Cox, P. H.; Harms, B.) Operatorial Chan-Paton factors. **89e:81140**
— (*with* Harms, B.) Excited-state vertices for type-I superstrings. **89h:81249**
— (*with* Cox, P. H.; Harms, B.) Finiteness of lower-dimensional open-string theories. **89f:81164**
Clements, Minot *see* **Blau, Steven K.; et al., 89h:81168**
Cline, James M. The conformal Killing anomaly of the Polyakov string. **89h:81174**
Cohn, J. D. Modular geometry of superconformal field theory. **89m:32035**
Comtet, A. (*with* Gibbons, Gary) Bogomol'nyĭ bounds for cosmic strings. **89h:83042**
Corrigan, E. (*with* Hollowood, T. J.) A bosonic representation of the twisted string emission vertex. **89h:81175**
— (*with* Hollowood, T. J.) Comments on the algebra of straight, twisted and intertwining vertex operators. **89h:81176**
— (*with* Hollowood, T. J.) A string construction of a commutative nonassociative algebra related to the exceptional Jordan algebra. **89i:81106**
Cotta-Ramusino, P. *see* **Bonora, L.; et al., 89d:53120; 89d:53121; 89h:81141** *and* (**89g:81058**)
Cougo-Pinto, M. V. The construction of $B_l^{(1)}$ in terms of vertex operators and a Lie-admissible not associative algebra. **89m:17039**
Cox, P. H. *see* **Clavelli, L.; et al., 89e:81140** *and* **89f:81164**
Cremmer, E. The vertex function in Witten's formulation of string field theory. **89b:81180**
Cristofano, G. (*with* Maiella, G.; Musto, R.; Nicodemi, F.; Pettorino, R.) Twisted bosonic strings and $\mathrm{O}(16) \otimes \mathrm{O}(16)$ heterotic model. **89a:81120**
— (*with* Musto, R.; Nicodemi, F.; Pettorino, R.) The multiloop covariant tadpole operator and amplitudes for the bosonic string. **89j:81123**
Crnković, Čedomir Symplectic geometry and (super-) Poincaré algebra in geometrical theories. **89b:81120**
Curci, Giuseppe *see* **Campostrini, Massimo; et al., 89k:81132**
Curtright, Thomas Counting symmetry patterns in the spectra of strings. **89a:81170**
— (*with* van Nieuwenhuizen, P.) Supersprings. **89a:81121**
— Are there any superstrings in eleven dimensions? **89b:81181a**
— Erratum: "Are there any superstrings in eleven dimensions?". **89b:81181b**
Cvetič, Mirjam Blown-up orbifolds. **89j:83073**
— Exact construction of $(0, 2)$ Calabi-Yau manifolds. **89a:53052**
— How chiral are type-II superstrings? **89i:81107**
— (*with* Louis, Jan; Ovrut, Burt A.) A string calculation of the Kähler potentials for moduli of Z_N orbifolds. **89j:83074**
Dąbrowski, L. (*with* Percacci, R.) Diffeomorphisms, orientation, and Pin structures in two dimensions. **89d:57033**
— *see also* **Budinich, P.; et al., 89b:53012**
D'Adda, A. (*with* Rego Monteiro, M. A.; Sciuto, S.) BRST invariant N-reggeon vertex with bosonized ghosts. **89a:81122**
Dai, Jian Hui *see* **Zha, Chao Zheng, 89h:83041**
Dai, Yuan Ben (*with* Xiong, Chuan Sheng; Zhao, Wei Dong) On stochastic quantization of Witten's field theory of interacting string. **89h:81131**
— (*with* Xiong, Chuan Sheng; Zhao, Wei Dong) Stochastic quantization of covariant field theory of interacting string. **89f:81166**
Das, Ashok (*with* Panigrahi, Prasanta K.; Maharana, J.) Path integral derivation of the Chern-Simons terms in string theories. **89f:83085**
— Nilpotency of Q_{BRST} and the vanishing β-function in string theories. **89i:81109**
D'Auria, R. (*with* Fré, P.) Minimal 10D anomaly-free supergravity and the effective superstring theory. **89g:83054**
David, François Louis Comment on: "Perturbative stability of smooth strings" [Phys. Rev. Lett. **58** (1987), no. 13, 1300–1303; MR 87m:81174] by R. D. Pisarski. **89h:81178**
Davidson, Aharon (*with* Wali, Kameshwar) Abelian self-interaction of a test loop. **89i:81140**
Davis, Richard Lynn (*with* Shellard, E. P. S.) Antisymmetric tensors and spontaneous symmetry breaking. **89i:81055**
Dayi, Ömer F. Four-photon scattering amplitude in bosonic open string field theory. **89a:81123**
— A note on the BFV-BRST operator quantization method. **89m:81134**
Delbourgo, R. (*with* Jarvis, P. D.; Zhang, R. B.; Thompson, George) Gauge fixing of stringlike models via $\mathrm{OSp}(D/2)$. **89a:81068**
Del Duca, V. (*with* Magnea, L.; van Nieuwenhuizen, P.) Equivalence of the Lagrangian and Hamiltonian BRST charges for the bosonic string in the harmonic and conformal gauges. **89c:81111**
Della Pietra, Stephen *see* **Blau, Steven K.; et al., 89h:81168**
Della Pietra, Vincent *see* **Blau, Steven K.; et al., 89h:81168**
Derendinger, J.-P. *see* **Chamseddine, A. H., 89e:81087** *and* **89k:81135**
Deser, S. Gravity from strings. (*see* **89f:81005**)
Dhar, Avinash The spinning particle with extrinsic curvature. **89m:81064**
D'Hoker, Eric Unitarity of the closed bosonic Polyakov string. **89h:81177**
— (*with* Phong, D. H.) Geometry of quantum strings. (*see* **89m:81001**)
— (*with* Phong, D. H.) The geometry of string perturbation theory. **89m:81132**
Dine, Michael Renormalization and nonrenormalization in string theory. (*see* **89a:81005**)
— (*with* Seiberg, Nathan) Microscopic knowledge from macroscopic physics in string theory. **89c:81113**
— (*with* Seiberg, Nathan) Are $(0, 2)$ models string miracles? **89f:81171**
Distler, Jacques Resurrecting $(2, 0)$ compactifications. **89a:81124**
— (*with* Greene, Brian R.; Kirklin, Kelley H.; Miron, Paul) Evaluation of $\overline{27}^3$ Yukawa couplings in a three-generation superstring model. **89c:81114**
— (*with* Greene, Brian R.) Aspects of $(2, 0)$ string compactifications. **89m:81135**
Ditsas, P. (*with* Floratos, E. G. F.) Finite temperature closed bosonic string in a finite volume. **89j:81170**
— *see also* **Antoniadis, I.; et al., 89i:17012**
Di Vecchia, P. Covariant quantization and the three-reggeon vertex. (*see* **89f:81005**)
— (*with* Hornfeck, K.; Yu, Ming) Infinite number of conserved charges and the N-string vertex. **89f:81168**
— (*with* Frau, M.; Lerda, A.; Sciuto, S.) A simple expression for the multiloop amplitude in the bosonic string. **89f:81169**
— (*with* Frau, M.; Lerda, A.; Sciuto, S.) N-string vertex and loop calculation in the bosonic string. **89f:81170**
— (*with* Hornfeck, K.; Frau, M.; Lerda, A.; Sciuto, S.) BRST invariant operator formalism for the superstring. **89e:81142**
Dixon, Lance J. (*with* Kaplunovsky, Vadim S.; Vafa, Cumrun) On four-dimensional gauge theories from type II superstrings. **89g:81045**
— *see also* **Banks, Thomas; et al., 89b:81244** *and* **89h:81163**
Dobrev, V. K. Characters of the unitarizable highest weight modules over the $N = 2$ superconformal algebras. **89a:17020**
Dolan, B. P. (*with* Tchrakian, D. H.) New Lagrangians for bosonic m-branes with vanishing cosmological constant. **89i:81087**
Domokos, G. Loop algebras and composite structures. (*see* **89a:81005**)
Dong, Zhi Hua (*with* Liu, Jian Heng; Shi, Wan Zhong; Ying, Peng Cheng) Pattern of E_6 symmetry breaking in the superstring theory. **89d:81092**
Dotsenko, Vl. S. 3D Ising model as a free fermion string theory: an approach to the thermal critical index calculation. **89g:82067**
— (*with* Polyakov, A. M.) Fermion representations for the 2D and 3D Ising models. **89m:82075**
Dresse, Alain (*with* Fisch, Jean; Henneaux, M.; Schomblond, Christiane) Consistent elimination of redundant second-class constraints. **89j:81171**
Droz-Vincent, Philippe New quantizations of the free Nambu string. **89c:81115**
Duan, Yi Shi (*with* Liu, Ji Cheng) φ-mapping method, topological current, and string theory. **89f:81130**
Duff, M. J. Supergravity, Kaluza-Klein and superstrings. **89b:83078**
— Supermembranes: the first fifteen weeks. **89d:83072**
— (*with* Inami, T.; Pope, C. N.; Sezgin, E.; Stelle, K. S.) Semiclassical quantization of the supermembrane. **89h:81179**
— *see also* **Bergshoeff, Eric; et al., 89f:83083** *and* **Blencowe, M. P., 89j:81163**
Dunbar, David C. *see* **Bern, Z., 89f:81161; Bailin, David; et al., 89i:81145** *and* (Not in MR)
Duncan, M. J. (*with* Segrè, G.) A simplified model for superstring compactification. **89a:81125**
Durhuus, Bergfinnur *see* **Ambjørn, Jan; et al., 89b:81164** *and* **89f:82040**
Dyer, C. C. (*with* Oattes, L. M.; Starkman, G. D.) Vacuum strings in FRW models. **89b:83101**
Eastaugh, A. (*with* McCarthy, J. G.) A study of the vertex in Witten's string field theory.

89b:81184
Ellis, Jonathan Richard Superstring phenomenology. (*see* **89f:81005**)
— (*with* Jetzer, Philippe; Mizrachi, Leah) One-loop string corrections to the effective field theory. **89f:81173**
— (*with* Enqvist, K.; Nanopoulos, D. V.; Olive, K. A.) Can the superstring inspire the standard model? **89f:81252**
— (*with* Enqvist, K.; Kalara, S.; Nanopoulos, D. V.; Olive, K. A.) Phenomenological studies of rank-5 Calabi-Yau models. **89f:81259**
— *see also* **Antoniadis, I.; et al., 89k:81190**
Ellis, Stephen D. *see* **Axenides, Minos; et al., 89c:81101**
Ellwanger, U. (*with* Fuchs, Jürgen) String field equations and the dual S-matrix from the exact renormalization group. **89k:81088**
Embacher, F. Free bosonic string field theory without supplementary fields. **89j:81172**
Englert, F. Hidden superstrings. **89h:81182**
Enqvist, K. *see* **Ellis, Jonathan Richard; et al., 89f:81252** *and* **89f:81259**
Eskin, Alex Conformal transformations and string field redefinitions. **89g:81071**
Evans, J. M. Super p-brane Wess-Zumino terms. **89f:83087**
— *see also* **Achúcarro, A.; et al., 89f:83082**
Ezawa, Z. F. (*with* Nakamura, Shigeru) Picture-changing operation and space-time supersymmetry in superstring field theory. **89a:81126**
— (*with* Nakamura, Shigeru; Tezuka, A.) Vertex operator construction of the SO(9, 1) Majorana-Weyl spinors in the Neveu-Schwarz-Ramond model. **89a:81127**
— (*with* Nakamura, Shigeru; Tezuka, A.) Space-time fermions and superghosts from the bosonic string: generation of $\mathrm{OSp}(9,1|2)\times\mathrm{OSp}(3,3|6)$ affine superalgebra. **89b:81185**
— *see also* **Carow-Watamura, Ursula; et al., 89k:81133**
Fairlie, D. B. (*with* Nuyts, J.; Zachos, C. K.) Construction of classical Virasoro algebras as SU(1, 1) extensions. **89h:17027**
Ferrara, S. The point-field limit of four-dimensional superstrings. (*see* **89a:81005**)
— Higher curvature supergravity and superstrings. (*see* **89f:81005**)
— Supergravities and superstrings. **89m:83092**
— Supertheories. **89m:81137**
— (*with* Kounnas, Costas; Porrati, Massimo) Superstring solutions with spontaneously broken four-dimensional symmetries. **89h:81183**
— (*with* Kounnas, Costas; Porrati, Massimo) $N=1$ superstrings with spontaneously broken symmetries. **89h:81184**
— (*with* Porrati, Massimo) The manifolds of scalar background fields in Z_N orbifolds. **89m:53132**
— *see also* **Cecotti, S.; et al., 89a:81118; 89f:83097; 89j:83072; 89k:81134** *and* **89m:53131**
Filippov, A. T. ★ Gauge theories of particles, string and corresponding fields. **89b:81125**
— Gauge formulation of theories of relativistic particles and strings. **89h:81104**
— ★ Введение в теорию суперструн. (Russian) [Introduction to superstring theory] **89j:81175**
Filk, T. (*with* Römer, H.) Topological weights and combinatorical unitarity in first and second quantization. **89g:81072**
Fisch, Jean (*with* Henneaux, M.) Representations of the ghost canonical commutation relations and nilpotency of the BRST charge in string theory. **89f:81175**
— *see also* **Dresse, Alain; et al., 89j:81171**
Fischer, Jan *see* **Chaichian, Masud, 89f:81163**
Fisher, A. W. Consistency condition calculations of supersymmetry anomalies. **89a:81071**
Fisk, Mark (*with* Srednicki, Mark) Magnetic string fields. **89m:81138**
Floratos, E. G. F. (*with* Iliopoulos, J.) A note on the classical symmetries of the closed bosonic membranes. **89c:81074**
— *see also* **Biran, B.; et al., 89g:81069; Antoniadis, I.; et al., 89i:17012** *and* **Ditsas, P., 89j:81170**
Floreanini, Roberto Representing functionally the two-dimensional conformal group. **89d:81093**
Foakes, A. P. (*with* Mohammedi, N.; Ross, Douglas A.) Three-loop β-functions for the superstring and heterotic string. **89j:81178**
— (*with* Mohammedi, N.; Ross, Douglas A.) Effective action and β-functions for the heterotic string. **89b:81148**
Foerster, D. On $d=2$ Regge calculus without triangulation: the supersymmetric case. **89a:83042**
Font, A. (*with* Ibáñez, L. E.; Nilles, H. P.; Quevedo, F.) Degenerate orbifolds. **89j:81179a**
— (*with* Ibáñez, L. E.; Nilles, H. P.; Quevedo, F.) Erratum: "Degenerate orbifolds". **89j:81179b**
— (*with* Ibáñez, L. E.; Nilles, H. P.; Quevedo, F.) Yukawa couplings in degenerate orbifolds: towards a realistic $\mathrm{SU}(3)\times\mathrm{SU}(2)\times\mathrm{U}(1)$ superstring. **89m:81139a**
— (*with* Ibáñez, L. E.; Nilles, H. P.; Quevedo, F.) Errata: "Yukawa couplings in degenerate orbifolds: towards a realistic $\mathrm{SU}(3)\times\mathrm{SU}(2)\times\mathrm{U}(1)$ superstring". **89m:81139b**
Foot, R. (*with* Joshi, G. C.) String theories and the Jordan algebras. **89b:81187**
— (*with* Joshi, G. C.) A connection between the octonions and the superstring. **89m:81140**
Forgács, P. *see* **Balog, J.; et al., 89b:81245**
Frampton, Paul H. (*with* Okada, Yasuhiro; Ubriaco, Marcelo R.) On adelic formulas for the p-adic string. **89j:81180**
— (*with* Okada, Yasuhiro) Effective scalar field theory of p-adic string. **89k:81140**
— (*with* Okada, Yasuhiro) p-adic string N-point function. **89h:81185**
Frau, M. *see* **Di Vecchia, P.; et al., 89e:81142; 89f:81169** *and* **89f:81170**
Fré, P. (*with* Gliozzi, F.) Four-dimensional superstrings live on group manifolds. **89h:81186**
— *see also* **D'Auria, R., 89g:83054**
Freed, Daniel S. (*with* Vafa, Cumrun) Global anomalies on orbifolds. **89c:58130**
— (*with* Vafa, Cumrun) Comment: "Global anomalies on orbifolds" [Comm. Math. Phys. **110** (1987), no. 3, 349–389; MR 89c:58130]. **89h:58197**
— Z/k-manifolds and families of Dirac operators. **89f:58127**
Freedman, Daniel Z. (*with* Ginsparg, P.; Sommerfield, C. M.; Warner, N. P.) String-ghost interactions and the trace anomaly. **89a:81128**
— (*with* Giddings, Steven B.; Shapiro, Joel A.; Thorn, Charles B.) The nonplanar one-loop amplitude in Witten's string field theory. **89c:81119**
Freeman, M. D. (*with* West, Peter) Ghost vertices for the bosonic string using the group-theoretic approach to string theory. **89h:81187a**
Freund, Peter G. O. (*with* Olson, Mark) Non-Archimedean strings. **89d:81094**
— (*with* Witten, Edward) Adelic string amplitudes. **89d:81095**
— *see also* **Brekke, Lee; et al., 89k:81131**
Friedan, D. A new formulation of string theory. (*see* **89f:81005**)
— *see also* **Banks, Thomas; et al., 89b:81244**
Fröhlich, Jürg *see* **Ambjørn, Jan; et al., 89b:81164**
Fuchs, Jürgen *see* **Ellwanger, U., 89k:81088**
Fujikawa, Kazuo (*with* Kubo, Jisuke) On the quantization of membrane theories. **89g:81073**
— Path integral, BRS symmetry, and string and membrane theories. **89k:81079**
— (*with* Inagaki, Takeshi; Suzuki, Hiroshi) BRS anomaly and the Weyl freedom in string theory. **89h:81188**
— (*with* Lindström, U.; Nielsen, N. K.; Roček, M.; van Nieuwenhuizen, P.) Regularized BRST-coordinate-invariant measure. **89f:81176**
Furlan, P. *see* **Budinich, P.; et al., 89b:53012**
Gambini, Rodolfo (*with* Trias, Antoni) Nonparametric strings. **89h:81189**
Gamboa, Jorge (*with* Zanelli, Jorge) Ground-state representation and the square root of the bosonic string. **89h:81190**
— (*with* Ruiz-Altaba, M.) Functional diffusion equation for membranes. **89j:81182**
Gandhi, S. K. (*with* Stelle, K. S.) Vanishing of the supermembrane partition function. **89m:81098**
Gangopadhyay, Debashis (*with* Singh, Lambodar Prasad) Fujikawa-type formulation of gauged BRST symmetry for the free bosonic string. **89j:81183**
Ganoulis, N. (*with* Lazarides, G.) Generalized index theorem for string superconductivity in realistic models. **89k:81141**
Gao, Hong Bo (*with* Sun, Yi) The local product structure of the internal space and some properties of the heterotic string action. (Chinese. English summary) **89h:81191**
— Do quantum strings need a quasiconformal instanton? **89j:81184**
Gao, Yi Hong (*with* Li, Miao) Classification of world sheet instantons and the path integral measure in string theories. **89a:81129**
— String models and the geometry of the mapping space. (Chinese. English summary) **89j:81140**
Garreis, Reiner (*with* Louis, Jan; Ovrut, Burt A.) Topology and heterotic, gravitational, Lorentz and super-Weyl anomalies. **89f:81177**
— *see also* **Louis, Jan; et al., 89c:81144**
Gastmans, R. (*with* Sevrin, A.; Troost, W.; Van Proeyen, A.) Infinite-dimensional extended superconformal Lie algebras. **89c:17036**
Gates, S. James, Jr. Unidexterous superconformal theories. **89e:81145**
— (*with* Brooks, Roger; Muhammad, Fuad) Unidexterous superspace: the flax of (super)strings. **89c:81123**
— (*with* Siegel, Warren) Leftons, rightons, nonlinear σ-models, and superstrings. **89k:81142**
— *see also* **Brooks, Roger, 89a:81116; Bellucci, Stefano, 89e:83077** *and* **Workshop: Superstrings, Cosmology, Composite Structures, 89a:81005**
Gell-Mann, Murray Superstring theory: closing talk at the second Nobel symposium on particle physics, Marstrand, Sweden, June 7, 1986. (*see* **89f:81005**)
Gepner, Doron New conformal field theories associated with Lie algebras and their partition functions. **89b:81188**
— Exactly solvable string compactifications on manifolds of SU(N) holonomy. **89h:83035**
— Space-time supersymmetry in compactified string theory and superconformal models. **89b:81189**
Gershun, V. D. (*with* Pashnev, A. I.) A relativistic system of interacting points as a discrete string. (Russian. English summary) **89f:81031**
Gervais, Jean-Loup (*with* Sakita, B.) Dual-resonance models. **89i:81111**
— *see also* **Bilal, Adel, 89a:81113** *and* **89e:81137**
Gibbons, Gary *see* **Comtet, A., 89h:83042**
Giddings, Steven B. String field theory and the geometry of moduli space. (*see* **89m:81001**)
— Conformal techniques in string theory and string field theory. **89k:81143**
— *see also* **Freedman, Daniel Z.; et al., 89c:81119**
Gilbert, Gerald (*with* Johnston, Desmond) Equivalence of the Kallosh and Carlip quantizations of the Green-Schwarz action for the heterotic string. **89d:81097**
Ginsparg, P. *see* **Freedman, Daniel Z.; et al., 89a:81128**
Girardello, L. *see* **Cecotti, S.; et al., 89a:81118; 89j:83072; 89k:81134** *and* **89m:53131**
Girardi, G. (*with* Grimm, Richard) Chern-Simons forms and four-dimensional $N=1$ superspace geometry. **89c:81124**
Giveon, A. Constraints on asymmetric orbifolds. **89b:81190**
Gliozzi, F. Multiloop modular invariance and the cosmological constant. **89b:81191**
— *see also* **Fré, P., 89h:81186**
Goddard, Peter (*with* Olive, D. I.; Waterson, G.) Superalgebras, symplectic bosons and the Sugawara construction. **89c:17030**
(**Gomes, J. F.**) *see* **Olive, D. I., 89c:17027**
Gómez, César *see* **Alvarez-Gaumé, L.; et al., 89b:81171** *and* **89m:81126**
Goncharov, Yu. P. (*with* Spokoĭnyĭ, B. L.) Linear real bundles, spinorial structures and automorphic forms in quantum geometry of strings. **89e:58022**
— (*with* Bytsenko, A. A.) The inflationary universe in the gauged $N=8$ supergravity induced from a superstring. **89e:83083**
González, J. String effective action in the inverse-dimensional expansion. **89c:81125**
Goodman, Mark W. Exponential suppression of string interactions on orbifolds. **89j:83077**
Govaerts, Jan Isometric compactifications of gravity-Yang-Mills theories. **89a:83058**
— String and superstring theories: an introduction. **89k:81144**
Green, Michael B. Introduction to string and superstring theory. I. **89e:81001a**
— Superstring theory. **89c:81002**
— Developments in superstring field theory. **89e:81148**
— Strings and superstrings. (*see* **89f:81005**)
— Superstrings. (Bulgarian) **89e:81149**
— (*with* Schwarz, John H.; Witten, Edward) ★ Superstring theory. Vol. 1. **89f:81001a**
— (*with* Schwarz, John H.; Witten, Edward) ★ Superstring theory. Vol. 2. **89f:81001b**
— (*with* Seiberg, Nathan) Contact interactions in superstring theory. **89g:81076**
Greene, Brian R. (*with* Kirklin, Kelley H.; Miron, Paul) Topology and geometry in superstring-inspired phenomenology. (*see* **89m:81001**)

— *see also* **Distler, Jacques; et al., 89c:81114** *and* **89m:81135**

Greensite, J. Contact interactions of closed superstrings. **89c:81126**

— (*with* Klinkhamer, F. R.) Superstring amplitudes and contact interactions. **89e:81106**

Grimm, Richard *see* **Girardi, G., 89c:81124** *and* **Baulieu, Laurent; et al., 89e:81135**

Grisaru, Marcus T. (*with* Xu, Rui-Ming) Quantum supergravities in two dimensions. **89f:81179**

— (*with* Nishino, Hitoshi; Zanon, D.) β-function approach to the Green-Schwarz superstring. **89k:81090**

— (*with* Nishino, Hitoshi; Zanon, D.) β-functions for the Green-Schwarz superstring. **89k:81145**

— *see also* **de Alwis, S. P.; et al., 89g:81042**

de Groot, M. (*with* Mansfield, P.) The relationship between the canonical super-Virasoro and functional super-Weyl anomalies. **89c:81127**

Gross, David J. The heterotic string theory. (*see* **89f:81005**)

— (*with* Periwal, Vipul) Heterotic string light-cone field theory. **89b:81192**

— (*with* Mende, Paul F.) The high-energy behavior of string scattering amplitudes. **89c:81187**

— (*with* Mende, Paul F.) String theory beyond the Planck scale. **89f:81180**

— High-energy symmetries of string theory. **89a:81130**

— (*with* Periwal, Vipul) String perturbation theory diverges. **89f:81118**

Grosse, H. ★ Models in statistical physics and quantum field theory. **89i:82001**

Guadagnini, E. (*with* Martellini, M.; Mintchev, M.) Vanishing of the cosmological constant for heterotic-type lower-dimensional superstrings. **89h:81192**

— Beta-function computation without the use of normal coordinates. **89h:81132**

Guo, Han Ying *see* **Chen, Wei; et al., 89h:81172** *and* **89k:81072**

Gürsey, Feza Super Poincaré groups and division algebras. **89b:17003**

Hagelin, J. S. *see* **Antoniadis, I.; et al., 89k:81190**

Hamada, K.-J. Automorphic functions on super Riemann surfaces and fermionic string. **89f:81181**

Han, Chang Woo *see* **Chung, Ki Soo; et al., 89j:81096**

Harari, Diego (*with* Hong, Deog Ki; Ramond, P.; Rodgers, V. G. J.) The superstring, Diff S^1/S^1, and holomorphic geometry. **89d:58021**

Harms, B. *see* **Clavelli, L.; et al., 89e:81140; 89f:81164** *and* **89h:81249**

Harris, Joseph Daniel *see* **Moore, Gregory W.; et al., 89c:81087**

Harvey, Jeffrey A. Minimal conformal models and string compactification. **89i:81112**

— Orbifolds and twisted strings. (*see* **89f:81005**)

— (*with* Moore, Gregory W.; Vafa, Cumrun) Quasicrystalline compactification. **89m:81144**

Hata, Hiroyuki (*with* Itoh, Katsumi; Kugo, Taichiro; Kunitomo, Hiroshi; Ogawa, Kaku) BRS invariant vertex of Neveu-Schwarz-Ramond superstring. **89c:81128**

Hatfield, B. F. Introduction to quantum field theory, path integrals, and strings. (*see* **89m:81001**)

Hatsuda, Machiko Tatewaki *see* **Kato, Mitsuhiro; et al., 89j:81255**

Hawking, S. W. (*with* Laflamme, R.) Baby universes and the nonrenormalizability of gravity. **89h:83021**

Hayashi, Masahito (*with* Kawamoto, Noboru; Kuramoto, Tetsuji; Shigemoto, Kazuyasu) Modular invariance and the gravitational anomaly in type II superstring theory. **89a:81131**

— (*with* Kawamoto, Noboru; Kuramoto, Tetsuji; Shigemoto, Kazuyasu) Gravitational anomaly cancellation in type I superstring theory. **89b:81193**

He, Anming *see* **Cai, Yunhai, 89a:81117**

Henneaux, M. (*with* Teitelboim, Claudio) p-form electrodynamics. **89b:81101**

— *see also* **Fisch, Jean, 89f:81175; Brink, Lars, 89i:81001** *and* **Dresse, Alain; et al., 89j:81171**

Hermann, Robert Differential form methods in the theory of variational systems and Lagrangian field theories. **89m:58054**

Hloušek, Zvonimir New formulas for the arbitrary four-point amplitudes in open-string theory. **89h:81193**

Ho, Choon Lin (*with* Hosotani, Yutaka) Field theory of geometric membranes. **89c:81129**

Hodgkin, Luke Super Teichmüller spaces: punctures and elliptic points. **89m:32039**

Hollowood, T. J. (*with* Myhill, R. G.) The 112 breakings of E_8. **89m:17041**

— *see also* **Corrigan, E., 89h:81175; 89h:81176** *and* **89i:81106**

Holman, Richard (*with* Kephart, T. W.) Modular invariance and anomalies in lower-dimensional superstring theories. **89e:81151**

Hong, Deog Ki The conformal factor and Diff S^1/S^1. **89i:81113**

— *see also* **Harari, Diego; et al., 89d:58021**

Hong Tuan, R. *see* **Aoyama, S., 89b:81112**

t Hooft, G. Strings from gravity. (*see* **89f:81005**)

Hoppe, Jens Diff$_A T^2$, and the curvature of some infinite-dimensional manifolds. **89k:58046**

Hori, Takayuki Generalization of general relativity to the space of closed strings. **89b:81155**

Hornfeck, K. *see* **Di Vecchia, P.; et al., 89e:81142** *and* **89f:81168**

Horowitz, Gary T. String theory without a background spacetime geometry. (*see* **89m:81001**)

— (*with* Martin, Stephen P.) Conformal field theory and the symmetries of string field theory. **89b:81194**

— (*with* Morrow-Jones, Jonathan; Martin, Stephen P.; Woodard, R. P.) New exact solutions for the purely cubic bosonic string field theory. **89b:81156**

Horváth, Z. *see* **Balog, J.; et al., 89b:81245**

Hosotani, Yutaka *see* **Ho, Choon Lin, 89c:81129**

Howe, P. S. Two-dimensional nonlinear σ-models. **89b:81127**

Hu, Hong Liang *see* **Chen, Wei; et al., 89h:81172** *and* **89k:81072**

Huang, Chao Guang *see* **Liu, Liao, 89e:83074**

Huang, Chao Shang (*with* Zhao, Wei Dong; Zhao, Zhi Yong) Spinning string models on group manifolds with twisted boundary conditions. **89f:81182**

— *see also* **Chen, Wei; et al., 89h:81173** *and* **Zhang, Zhao Xi, 89m:81194**

Huang, Wung Hong Kaluza-Klein reduction of Gauss-Bonnet curvature. **89e:83070**

Hueffmann, Andreas Classical stability and semiclassical ground state of a nonmoving, rigid glue loop. **89j:81247**

Hughston, L. P. (*with* Shaw, William T.) Real classical strings. **89i:53044**

— (*with* Shaw, William T.) Classical strings in ten dimensions. **89i:53045**

Hull, C. M. Sigma-model conformal anomalies and string effective actions. (*see* **89a:81005**)

— (*with* Townsend, P. K.) String effective actions from sigma-model conformal anomalies. **89e:81114**

— Covariant quantization of chiral bosons and anomaly cancellation. **89k:81148**

Huq, M. On covariant quantization of massive superparticle. **89m:81145**

Hwang, Stephen (*with* Marnelius, R.) Interacting bosonic strings in subcritical dimensions. **89c:81130**

Ibáñez, L. E. (*with* Mas, Javier; Nilles, H. P.; Quevedo, F.) Heterotic strings in symmetric and asymmetric orbifold backgrounds. **89f:81183**

— *see also* **Font, A.; et al., 89j:81179a; 89j:81179b; 89m:81139a** *and* **89m:81139b**

Ichinose, Shoichi Background-field approach to extended string theory. **89h:81194**

Iengo, R. (*with* Ivanov, B. V.) Fermionization of chiral string determinants in factorizable metrics. **89m:81146**

— *see also* **Aldazabal, Gerardo; et al., 89h:81158** *and* **Bonini, M., 89h:81169**

Il′ina, I. L. *see* **Vladimirskiĭ, V. V.; et al., (89d:81001)**

Iliopoulos, J. *see* **Floratos, E. G. F., 89c:81074** *and* **Antoniadis, I.; et al., 89i:17012**

Inagaki, Takeshi *see* **Fujikawa, Kazuo; et al., 89h:81188**

Inami, T. (*with* Kanno, Hiroaki; Kubota, Takahiro) Hexagon gauge anomaly of the type-I superstring in the path integral method. **89a:81133**

— *see also* **Duff, M. J.; et al., 89h:81179**

Inamoto, Tadashi Becchi-Rouet-Stora-Tyutin Hamiltonian method and the membrane model. **89c:81131**

Ingermanson, Randall *see* **Aratyn, Henrik; et al., 89a:81110; 89a:81111; 89b:81172; 89c:81100; 89f:81153; 89j:58025** *and* **89m:81127**

Inoue, Kenzo[2] (*with* Sakamoto, Makoto; Takano, Hiroshi) Nonabelian orbifolds. **89a:81134**

— (*with* Nima, Shuji; Takano, Hiroshi) Zero mode and modular invariance in string on nonabelian orbifold. **89j:81188**

Isham, C. J. Group theory and the canonical quantization of strings on tori. **89j:81189**

— (*with* Pope, C. N.) Nowhere-vanishing spinors and topological obstructions to the equivalence of the NSR and GS superstrings. **89g:53107**

— (*with* Linden, Noah) Group theoretic quantisation of strings on tori. **89m:81070**

Ito, Katsushi Path-integral formulation of the fermionic strings on the light-cone slice. **89g:81077**

Itoh, Katsumi (*with* Ogawa, Kaku; Suehiro, Kazuhiko) BRS invariance of the Witten type vertex. **89d:81099**

— (*with* Kato, Mitsuhiro; Kunitomo, Hiroshi; Sakamoto, Makoto) Vertex construction and zero modes of twisted strings on orbifolds. **89h:81195**

— (*with* Kunitomo, Hiroshi) Covariant string field theory on Z_2-orbifold. **89i:81114**

— *see also* **Hata, Hiroyuki; et al., 89c:81128**

Itoi, Chigaku String vertices in a weakly curved background. **89b:81158**

— (*with* Kubota, Hiroshi) BRST quantization of the string model with extrinsic curvature. **89e:81152**

Ivanov, B. V. *see* **Iengo, R., 89m:81146**

Iwazaki, A. Bosonization of conformal ghosts in Witten's string theory. (Italian summary) **89h:81197**

Jack, I. (*with* Jones, D. R. T.; Ross, Douglas A.) On the relationship between string low-energy effective actions and $O(\alpha'^3)$ σ-model β-functions. **89g:81056**

— (*with* Jones, D. R. T.) Dilaton dependence of the two-loop effective action. **89a:81135**

— (*with* Jones, D. R. T.; Lawrence, A. M.) Ghost freedom and string actions. **89f:81184**

Jain, Sanjay Conformally invariant field theory in two dimensions and strings in curved spacetime. **89i:81094**

Jarvis, P. D. *see* **Delbourgo, R.; et al., 89a:81068**

Jaskólski, Z. The integration of G-invariant functions and the geometry of the Faddeev-Popov procedure. **89b:81196**

— On the Gribov ambiguity in the Polyakov string. **89g:81078**

Jetzer, Philippe *see* **Ellis, Jonathan Richard; et al., 89f:81173**

Jevicki, Antal Construction of interacting string and superstring field theory. **89h:81198**

Jiménez Lorenzo, Fernando (*with* Sierra, Germán) Quenched string field theory. **89j:81190**

Johnston, Desmond A local fermionic ghost number anomaly for the Kallosh quantization of the heterotic string? **89i:81115**

— *see also* **Gilbert, Gerald, 89d:81097**

Jones, D. R. T. *see* **Jack, I., 89a:81135; 89f:81184** *and* **89g:81056**

Jónsson, Thórdur *see* **Ambjørn, Jan; et al., 89b:81164** *and* **89f:82040**

Joshi, G. C. *see* **Foot, R., 89b:81187** *and* **89m:81140**

(Jourjine, A.) *see* **Bullinaria, J. A., 89b:81080**

Julve, J. *see* **Barbero, F.; et al., 89m:81089**

Jun, Jin Woo (*with* Kim, Jae Kwan) Evaluation of the conformal anomaly of Polyakov's string theory by the stochastic quantization method. **89f:81185**

Kaku, Michio Why are there two BRST string field theories? **89c:81133**

Kalara, S. (*with* Kounnas, Costas; Olive, K. A.) Gravitational equations of motion at the string scale. **89j:83078**

— *see also* **Ellis, Jonathan Richard; et al., 89f:81259**

(Kalitzin, S.) *see* **Green, Michael B., 89e:81149**

Kallosh, R. Strings and superspace. (*see* **89f:81005**)

— (*with* Morozov, A. Yu.) Green-Schwarz action and loop calculations for superstring. **89j:81191**

— (*with* Morozov, A. Yu.) Renormalization theorems for heterotic strings. **89j:81127**

— (*with* Morozov, A. Yu.) On the vanishing of multiloop contributions to the 0-, 1-, 2-, 3-point functions in the Green-Schwarz formalism for heterotic strings. **89f:81186**

— (*with* Rakhmanov, M. A.) Covariant quantization of the Green-Schwarz superstring. **89f:81187**

— (*with* Rakhmanov, M. A.) Gauge algebra and quantization of type II superstrings. **89i:81116**

— (*with* Troost, W.; Van Proeyen, A.) Quantization of superparticle and superstring with Siegel's modification. **89m:81147**

Kalyana Rama, S. *see* **Louis, Jan; et al., 89m:81152**

Kamata, Masaru *see* **Osanai, A.; et al., 89g:81088**

Kamimura, Kiyoshi (*with* Tatewaki, Machiko) Modified superstring in the light-cone gauge. **89d:81100**

Kanno, Hiroaki (*with* Nishimura, Kimihide; Tamekiyo, Akira) Two-point functions on supertorus and supermodular invariance. **89f:81132**
— *see also* **Inami, T.; et al., 89a:81133**
Kao, W. F. (*with* Park, Q-Han; Schnitzer, Howard J.) Low energy effective action, to two-loop order, for strings on a group manifold, from compactification of closed Bose strings. **89b:81129**
Kaplunovsky, Vadim S. One-loop threshold effects in string unification. **89f:81254**
— *see also* **Dixon, Lance J.; et al., 89g:81045**
Karabali, Dimitra (*with* Schnitzer, Howard J.) Gauge symmetry enlargement and accidental massless spectrum of string models on group manifolds. **89f:81188**
— (*with* Park, Q-Han; Schnitzer, Howard J.) Nonabelian Bose-Fermi equivalence in the background of Kaluza-Klein scalars and compactifications of closed bosonic strings. **89k:81080**
Karanikas, A. I. (*with* Ktorides, C. N.) Nonlocal bosonization in two dimensions and an effective string field theory with phase transition. **89a:81136**
Karlhede, A. (*with* Lindström, U.) Super-Weyl-invariant spinning p-branes. **89j:83079**
Kasparian, Azniv Calabi-Yau manifolds of some special forms. **89f:32056**
Kato, Mitsuhiro (*with* Matsuda, Satoshi) Oscillator representation of Virasoro algebra and Kac determinant. **89c:17026**
— (*with* Koikawa, Takao; Hatsuda, Machiko Tatewaki) Can SST-II contain the standard model? **89j:81255**
— *see also* **Itoh, Katsumi; et al., 89h:81195**
Kavalov, An. R. (*with* Sedrakyan, A. G.) Fermion representation of the three-dimensional Ising model. **89g:82071**
Kawai, Hikaru (*with* Lewellen, D. C.; Schwartz, J. A.; Tye, S.-H. H.) The spin structure construction of string models and multiloop modular invariance. **89h:81199**
— *see also* **Chaudhuri, Shyamoli; et al., 89d:81088**
Kawai, Toshiya Two-cocycle and transformation law of the current. **89g:81033**
Kawamoto, Noboru *see* **Hayashi, Masahito; et al., 89a:81131** *and* **89b:81193**
Kazama, Yoichi Introduction to twisted conformal fields. **89g:81079**
Keller, Georg (*with* Silvotti, Roberto) Quantum measure and Weyl anomaly of two-dimensional bosonic nonlinear σ-models. **89j:58020**
Kenmoku, M. (*with* Okamoto, Yuko; Shigemoto, Kazuyasu) Möbius and super-Möbius gauge fixing for the closed string amplitudes on the disk. **89j:81192**
Kephart, T. W. *see* **Holman, Richard, 89e:81151**
Ketov, S. V. Supersymmetric σ-models with torsion in supergravity background and critical dimensions for string theories. **89a:81094**
— Three-loop finiteness of the two-dimensional supersymmetric nonlinear σ-models on generalized Ricci-flat manifolds with torsion. **89m:81106**
Khlopov, M. Yu. *see* **Kogan, Ya. I., 89c:81135**
Kikkawa, Keiji Covariant field theory of the interacting string. (*see* **89f:81005**)
— (*with* Maeno, Masahiro; Sawada, Shiro) String field theory in curved space. **89f:81133**
Kiklevich, E. A. *see* **Vladimirskiĭ, V. V.; et al.,** (**89d:81001**)
Killingback, T. P. Global anomalies, string theory and spacetime topology. **89i:53055**
Kim, Jae Kwan *see* **Jun, Jin Woo, 89f:81185** *and* **Chung, Ki Soo; et al., 89j:81096**
Kim, Jihn E. The strong CP problem in orbifold compactifications and an SU(3) ⊗ SU(2) ⊗ U(1)^n model. **89f:81255**
Kim, Kee Yong *see* **l'Yi, W. S.; et al., 89h:81242**
Kim, Yong Duk *see* **l'Yi, W. S.; et al., 89h:81242**
Kiritsis, Elias B. A bosonic representation of the Ising model. **89d:81102**
Kirklin, Kelley H. *see* **Distler, Jacques; et al., 89c:81114** *and* **Greene, Brian R.; et al.,** (**89m:81001**)
Kirschner, R. Parisi-Sourlas type symmetry and Hamiltonian BRST formalism. **89f:81189**
Kitazawa, Y. Explicit parametrizations of degenerate surfaces from the KP equation and closed bosonic string amplitudes. **89e:81154**
Kitazoe, T. (*with* Nishimura, Haruhiko; Tabuse, M.) Orbifold compactifications of $D < 10$ dimensional fermionic heterotic string. **89h:81200**
Klebanov, Igor (*with* Susskind, Leonard) Continuum strings from discrete field theories. **89k:81151**
— (*with* Susskind, Leonard) Renormalization group and string amplitudes. **89b:81149**
Kleppe, Gary (*with* Ramond, P.; Viswanathan, R. Raju) A reparametrization-invariant approach to string field theory. **89k:81152**
Klinkhamer, F. R. *see* **Greensite, J., 89e:81106**
Knizhnik, V. G. Analytic fields on Riemannian surfaces. **89b:81198**
— Analytic fields on Riemann surfaces. II. **89b:81199**
— An explicit equation for a two-loop measure in a heterotic-string model. **89f:81190**
— Explicit expression for the two-loop measure in the heterotic string theory. **89f:81191**
— *see also* **Belavin, A. A.; et al., 89h:81165**
Kobayashi, Ken-ichiro (*with* Sakamoto, Makoto) Orbifold-compactified models in torus-compactified string theories. **89k:81153**
Kogan, Ya. I. (*with* Morozov, A. Yu.; Ol'shanetskiĭ, M. A.; Shifman, M. A.) The construction of valleys in a supersymmetric model with gauge group E_6 and a matter 27-plet. **89a:81171**
— Vortices on the world sheet of a string; critical dynamics. **89a:81095**
— (*with* Khlopov, M. Yu.) Homotopically stable particles in the theory of superstrings. **89c:81135**
Koh, I. G. *see* **Chung, Ki Soo; et al., 89j:81096**
Koikawa, Takao *see* **Kato, Mitsuhiro; et al., 89j:81255**
Konishi, Kenichi Dynamical breaking of symmetries in supersymmetric gauge theories. (*see* **89a:81005**)
Konisi, Gaku (*with* Saito, Takesi; Shigemoto, Kazuyasu; Takahasi, Wataru) Covariant Lagrangian formulation of interacting heterotic strings. **89j:81193**
Konno, Hitoshi A covariant multiloop planar operator in bosonic string theory. **89i:81117**
Kostelecký, V. Alan (*with* Lechtenfeld, Olaf; Lerche, W.; Samuel, Stuart; Watamura, Satoshi) Conformal techniques, bosonization and tree-level string amplitudes. **89b:81201**
— (*with* Lechtenfeld, Olaf; Samuel, Stuart) Covariant string amplitudes on exotic topologies to one loop. **89c:81136**
— (*with* Samuel, Stuart) The static tachyon potential in the open bosonic string theory. **89d:81103**
Kostov, Ivan Two-point correlator for the $D = 1$ closed bosonic string. **89m:81122**
Kounnas, Costas Strings and superstrings in less than ten dimensions. **89e:81155**
— (*with* Quirós, M.; Zwirner, Fabio) A custodial symmetry for the cosmological constant in the effective theories of four-dimensional superstrings. **89f:81192**
— (*with* Porrati, Massimo) Spontaneous supersymmetry breaking in string theory. **89j:81194**
— *see also* **Axenides, Minos; et al., 89c:81101; Ferrara, S.; et al., 89h:81183; 89h:81184** *and* **Kalara, S.; et al., 89j:83078**
Kraemmer, Ulrike *see* **Rebhan, Anton, 89b:81141**
Krasnikov, N. V. (*with* Rozhanskiĭ, L. V.) Structure of the low-energy superpotential in superstring theories. **89e:81156**
Kripfganz, J. (*with* Perlt, H.) Cosmological impact of winding strings. **89e:83071**
Ktorides, C. N. *see* **Karanikas, A. I., 89a:81136**
Kubo, Jisuke Nonabelian gauge bosons in the compactified bosonic membrane theory. **89i:81071**
— *see also* **Fujikawa, Kazuo, 89g:81073**
Kubo, Reijiro Geometry, heat equation and path integrals on the Poincaré upper half-plane. **89m:81057**
Kubota, Hiroshi *see* **Itoi, Chigaku, 89e:81152; Abe, Mitsuko; et al., 89f:81149; 89h:81157a** *and* **89h:81157b**
Kubota, Takahiro (*with* Veneziano, G.) Off-shell effective actions in string theory. **89e:81157**
— *see also* **Inami, T.; et al., 89a:81133**
Kugo, Taichiro (*with* Kunitomo, Hiroshi; Suehiro, Kazuhiko) BRS invariance of string vertex on general ghost vacuum. **89c:81138**
— Lorentz transformation in the light-cone gauge string field theory. **89h:81202**
— Gauge string field theory. **89m:81150**
— *see also* **Hata, Hiroyuki; et al., 89c:81128**
Kumar, Alok^2 *see* **Chang, Darwin, 89g:81070** *and* **89i:81105**
Kunitomo, Hiroshi *see* **Hata, Hiroyuki; et al., 89c:81128; Kugo, Taichiro; et al., 89c:81138; Itoh, Katsumi; et al., 89h:81195** *and* **89i:81114**
Kuramoto, Tetsuji *see* **Hayashi, Masahito; et al., 89b:81193** *and* **89a:81131**
Kurokawa, Nobushige String theories and prime number theories. **89j:58110**
Kutasov, David Modular invariance, chiral anomalies and contact terms. **89j:81195**
Kuusk, Piret The heterotic superstring and curved, scale-invariant superspace. **89k:81105**
Labastida, J. M. F. (*with* Pernici, M.) $N = 4$ supersymmetric Lagrangian for self-dual fields. **89g:81105**
— (*with* Pernici, M.) Heterotic-string Lagrangean in the bosonic formulation. **89b:81203**
Lacki, J. *see* **Altschüler, D.; et al., 89c:17014**
Laflamme, R. *see* **Hawking, S. W., 89h:83021**
Lam, C. S. GSO projections for aperiodic strings. **89e:81158**
— (*with* Li, Da-Xi) Direct compactification of heterotic strings from 26 to 4 dimensions via T^{22}/G. **89i:81118**
Lancaster, David The Weyl anomaly for singular surfaces. **89g:81047**
— (*with* Mansfield, P.) Relations between disc diagrams. **89k:81155**
Langouche, F. (*with* Leutwyler, H.) Anomalies generated by extrinsic curvature. **89b:81135**
Latorre, José I. Sp(2) BRST invariant quantization of strings: the harmonic gauge. **89g:81081**
Lauer, Jürgen (*with* Lüst, Dieter; Theisen, Stefan) Four-dimensional supergravity from four-dimensional strings. **89k:83077**
Lawrence, A. M. Stability of cosmological solutions to string theory effective actions. **89m:83043**
— *see also* **Jack, I.; et al., 89f:81184**
Lazarides, G. (*with* Shafi, Q.) Matter parities in three-generation superstring models. **89j:81196**
— (*with* Shafi, Q.) Freely acting Z_3 symmetries of a Yau manifold and three-generation superstring models. **89m:83087**
— (*with* Shafi, Q.; Tomaras, T. N.) Nonexistence of spherically symmetric monopole solutions in the three-generation superstring model. **89m:81151**
— *see also* **Ganoulis, N., 89k:81141**
Laziev, M. E. (*with* Savvidi, G. K.) Transversity of a massless relativistic membrane. **89c:81140**
Lebedev, D. R. (*with* Morozov, A. Yu.) Statistical sums of strings on hyperelliptic surfaces. **89j:81197**
Leblanc, Yvan Bosonic string theory at finite temperature. (*see* **89h:81006**)
— Improved integral representation for the finite-temperature propagator in string theory. **89k:81092**
LeBrun, Claude (*with* Rothstein, Mitchell) Moduli of super Riemann surfaces. **89k:32043**
Lechner, K. *see* **Bonora, L.; et al., 89c:83050**
Lechtenfeld, Olaf (*with* Samuel, Stuart) Off-shell conformal methods for the superstring. **89j:81198**
— (*with* Samuel, Stuart) Covariant off-shell string amplitudes with auxiliary fields. **89k:81156**
— (*with* Parkes, Andrew) On the vanishing of the genus two superstring vacuum amplitude. **89h:81204**
— *see also* **Kostelecký, V. Alan; et al., 89b:81201** *and* **89c:81136**
LeClair, André An operator formulation of the superstring. **89h:81203**
Lee, Hoong Chien *see* **Zhu, Zhong Yuan,** (**89h:81006**)
León, Juan *see* **Chang, Ngee-Pong; et al., 89e:83068**
Lerche, W. (*with* Nilsson, B. E. W.; Schellekens, A. N.) Covariant lattices, superconformal invariance and strings. **89e:81159**
— (*with* Nilsson, B. E. W.; Schellekens, A. N.; Warner, N. P.) Anomaly cancelling terms from the elliptic genus. **89g:81082**
— Elliptic index and superstring effective actions. **89k:81157**
— *see also* **Kostelecký, V. Alan; et al., 89b:81201**
Lerda, A. *see* **Di Vecchia, P.; et al., 89e:81142; 89f:81169** *and* **89f:81170**
Leutwyler, H. *see* **Langouche, F., 89b:81135**
Lewellen, D. C. *see* **Kawai, Hikaru; et al., 89h:81199**
Li, Da-Xi One-loop finiteness of the string theory on the T^{22}/G manifold. (French summary) **89e:81160**

— String theory with three families of chiral fermions. **89h:81208**

— *see also* **Chang, Ngee-Pong, 89f:81250; Lam, C. S., 89i:81118** *and* **Chang, Ngee-Pong; et al., 89i:83055**

Li, Keke Global symmetries in maximal supergravities from compactified superstrings. **89c:81141**

Li, Miao Equivariant determinant bundles and supersymmetric closed strings. **89k:58279**

— Breaking of U(1) groups in exactly solvable Calabi-Yau compactifications. **89m:53137**

— *see also* **Gao, Yi Hong, 89a:81129**

Li, Xin Zhou Supermembrane monopole vacua. **89h:81209**

Lima Santos, A. *see* **Abdalla, E., 89a:81056**

Linden, Noah *see* **Bengtsson, Anders K. H.; et al., 89b:81088** *and* **Isham, C. J., 89m:81070**

Lindström, U. (*with* Roček, M.; van Nieuwenhuizen, P.) A Weyl-invariant rigid string. **89c:81142**

— (*with* Roček, M.) Bosonic and spinning Weyl-invariant rigid strings. **89b:81205**

— (*with* Theodoridis, Georgios) Weyl-invariant super p-branes. **89k:81159**

— *see also* **Fujikawa, Kazuo; et al., 89f:81176** *and* **Karlhede, A., 89j:83079**

Liu, Bang Gui (*with* Chen, Yi Xin) A new gauge- and BRST-invariant interacting closed bosonic string field theory. **89f:81193**

— Dilaton vertices of the closed superstring and the heterotic string. **89h:81210**

— (*with* Chen, Yi Xin) A covariant open bosonic string field theory including the endpoint and middlepoint interaction. **89k:81160**

Liu, Ji Cheng *see* **Duan, Yi Shi, 89f:81130**

Liu, Jian Heng *see* **Dong, Zhi Hua; et al., 89d:81092**

Liu, Liao (*with* Huang, Chao Guang) Quantum cosmology in superstring theory—a toy model. **89e:83074**

Lorenz-Petzold, Dieter String-generated generalizations of the Nariai solution. **89d:83066**

Louis, Jan (*with* Ovrut, Burt A.; Garreis, Reiner; Wess, Julius) Schwinger terms, seagulls and the Virasoro anomaly. **89c:81144**

— (*with* Ovrut, Burt A.; Kalyana Rama, S.) Topological approach to Weyl and super-Weyl anomalies in string theory. **89m:81152**

— *see also* **Garreis, Reiner; et al., 89f:81177** *and* **Cvetič, Mirjam; et al., 89j:83074**

Love, Alex *see* **Bailin, David; et al., 89a:81167; 89c:81194; 89d:83060; 89i:81145** *and* (Not in MR)

Luckock, Hugh (*with* Moss, Ian; Toms, David J.) Polyakov strings in background fields: wave functions and quantum cosmology. **89e:81115**

Luo, Liao Fu (*with* Zhao, Gang) A string model of leptons and quarks. **89f:81256**

Lüst, Dieter Covariant fermionic and heterotic strings from the bosonic string. **89e:81161**

— (*with* Theisen, Stefan) Four-dimensional heterotic strings—orbifolds and covariant lattices. **89h:81211**

— *see also* **Lauer, Jürgen; et al., 89k:83077**

Lütken, C. A. (*with* Ross, Graham G.) Taxonomy of heterotic superconformal field theories. **89j:81200**

Lynker, Monika (*with* Schimmrigk, Rolf) Heterotic string compactification on $N=2$ superconformal theories with $c=9$. **89h:81212**

Maeda, Kei-ichi (*with* Turok, Neil) Finite-width corrections to the Nambu action for the Nielsen-Olesen string. **89h:81213**

Maeno, Masahiro (*with* Sawada, Shiro) String field theory in curved space: a nonlinear σ-model analysis. **89m:81115**

— *see also* **Arakawa, Kouichi, 89a:81108** *and* **Kikkawa, Keiji; et al., 89f:81133**

Magnea, L. *see* **Del Duca, V.; et al., 89c:81111**

Maharana, J. BRS Hamiltonian quantization of compactified closed bosonic string. **89g:81084**

— *see also* **Das, Ashok; et al., 89f:83085**

Maiella, G. *see* **Cristofano, G.; et al., 89a:81120**

Mandelstam, Stanley The n-loop string amplitude. **89e:81163**

— The N-loop string amplitude. (*see* **89f:81005**)

Mañes, J. L. An anomalous transformation in string field theory. **89j:81201**

Manin, Yu. I. Quantum strings and algebraic curves. **89g:81085**

— *see also* **Beĭlinson, A. A.; et al., 89j:58039**

Mann, R. B. Regularization dependence of the superstring anomaly graph. **89f:81122**

Mansfield, P. The relationship among canonical quantisation, Polyakov's functional integral and BRST quantisation of the string. **89c:81145**

— (*with* Miramontes, J. L.) The role of the dilaton and tachyon in constructing the string functional integral. **89a:81138**

— *see also* **de Groot, M., 89c:81127** *and* **Lancaster, David, 89k:81155**

Marcus, Neil (*with* Sagnotti, Augusto) BRST quantization and BRST cohomology. (*see* **89m:81001**)

Markushevich, D. G. (*with* Ol′shanetskiĭ, M. A.; Perelomov, A. M.) Description of a class of superstring compactifications related to semisimple Lie algebras. **89a:83061**

Marnelius, R. The formalism of Fradkin and Vilkovisky and the relativistic string. (*see* **89b:81008**)

— *see also* **Hwang, Stephen, 89c:81130** *and* **Unification of fundamental interactions, 89f:81005**

Martellini, M. Algebraic geometry and covariant scattering amplitudes for fermionic closed strings. **89c:81146**

— (*with* Sánchez, Norma) Thermal event horizons, moduli and boson operator formalism on Riemann surfaces. **89b:81083**

— *see also* **Bonora, L.; et al., 89e:81138** *and* **Guadagnini, E.; et al., 89h:81192**

Martin, Stephen P. Conformal field theory representation and background-independent action for superstring field theory. **89m:81153**

— *see also* **Horowitz, Gary T.; et al., 89b:81156** *and* **89b:81194**

Martinec, Emil *see* **Banks, Thomas; et al., 89b:81244**

Mas, Javier *see* **Ibáñez, L. E.; et al., 89f:81183**

Mathur, Samir D. (*with* Mukhi, Sunil) The $N=2$ fermionic string: path integral, spin structures and supermoduli on the torus. **89f:81196**

Matsuda, Satoshi *see* **Kato, Mitsuhiro, 89c:17026**

Matsuki, Takayuki BRS anomaly for string theories. **89j:81204**

— (*with* Viswanathan, K. S.) Critical dimension of strings with an extrinsic curvature. **89c:81147**

Matsumoto, Shuji (*with* Yasui, Yukinori) Chaos on the super Riemann surface. **89i:58092**

Mavromatos, N. E. A remark on the connection between the C-theorem and the central charge action in closed bosonic σ-models. **89f:81198**

Mazur, Paweł O. Are there topological black-hole solitons in string theory? **89b:83054**

Mazzitelli, F. D. (*with* Paz, J. P.; Castagnino, Mario) Cauchy data and Hadamard singularities in time-dependent backgrounds. **89a:81105**

McArthur, I. N. Factorization of determinants in $(1,0)$ supergravity. **89c:83052**

— An obstruction to factorization of determinants on super-Teichmüller parameters in $(1,0)$ supergravity. **89f:81199**

McCarthy, J. G. *see* **Eastaugh, A., 89b:81184**

McGuigan, Michael Finite-temperature string theory and twisted tori. **89i:81120**

McInnes, Brett Spontaneous splitting and internal isometries of superstring vacua. **89h:81215**

— Superstrings and holonomy groups of Kähler manifolds. **89h:53132**

— The geometry of gauge symmetry breaking in the superstring context. **89m:81116**

McMullan, D. *see* **Bakas, I., 89h:81079**

Medvedev, P. B. *see* **Aref′eva, I. Ya., 89j:81155; 89k:81126** *and* **89m:81128**

Meissner, K. A. (*with* Pokorski, S.) Dilaton vertex for open strings. **89c:81149**

Melzer, Ezer $N=2$ supertori and their representation as algebraic curves. **89f:32039**

Mende, Paul F. *see* **Gross, David J., 89c:81187** *and* **89f:81180**

Menskiĭ, M. B. The interaction of strings—on the basis of a path group. (Russian) (*see* **89d:81001**)

Metsaev, R. R. (*with* Tseytlin, A. A.) On loop corrections to string theory effective actions. **89a:81139**

— (*with* Tseytlin, A. A.) Effective equations in string theory and conditions for conformal invariance of the two-dimensional σ model: test of the equivalence hypothesis. **89k:81093**

Mezincescu, Luca (*with* Nepomechie, Rafael I.; Townsend, P. K.) Elliptic functions and the closed spinning-string propagator. **89k:81163**

— *see also* **de Alwis, S. P.; et al., 89g:81042**

Mickelsson, Jouko String quantization on group manifolds and the holomorphic geometry of $\mathrm{Diff}\,S^1/S^1$. **89b:58043**

Migdal, A. A. *see* **Zmushko, V. V., 89j:81151**

Minahan, Joseph A. One-loop amplitudes on orbifolds and the renormalization of coupling constants. **89e:81164**

Mintchev, M. *see* **Guadagnini, E.; et al., 89h:81192**

Miramontes, J. L. *see* **Mansfield, P., 89a:81138**

Miron, Paul *see* **Distler, Jacques; et al., 89c:81114** *and* **Greene, Brian R.; et al., (89m:81001)**

Mitchell, David (*with* Turok, Neil) Statistical properties of cosmic strings. **89b:83103**

Mizrachi, Leah *see* **Ellis, Jonathan Richard; et al., 89f:81173**

Mohammedi, N. *see* **Foakes, A. P.; et al., 89b:81148** *and* **89j:81178**

Mohapatra, Pramoda K. Comments on possible new three-generation Calabi-Yau manifolds. **89m:83088**

(Mohapatra, Rabindra Nath) *see* **Workshop: Superstrings, Cosmology, Composite Structures, 89a:81005**

Montano, David Superstrings on hyperelliptic surfaces and the two-loop vanishing of the cosmological constant. **89f:81200**

Moore, Gregory W. Atkin-Lehner symmetry. **89c:81151a**

— Erratum: "Atkin-Lehner symmetry". **89c:81151b**

— (*with* Morozov, A. Yu.) Some remarks on two-loop superstring calculations. **89m:81109**

— (*with* Nelson, Philip C.; Polchinski, J.) Errata: "Strings and supermoduli" [Phys. Lett. B **169** (1986), no. 1, 47–53; MR 88d:81081]. **89b:81159**

— (*with* Harris, Joseph Daniel; Nelson, Philip C.; Singer, Isadore M.) Errata: "Modular forms and the cosmological constant" [Phys. Lett. B **178** (1986), no. 2-3, 167–173; MR 87m:81170]. **89c:81087**

— *see also* **Alvarez-Gaumé, L.; et al., 89b:81171; Atick, Joseph J.; et al., 89j:81156** *and* **Harvey, Jeffrey A.; et al., 89m:81144**

Morozov, A. Yu. String theory and structure of universal modulus space. **89b:81207**

— (*with* Perelomov, A. M.) Partition functions in superstring theory. Type 2. **89b:81209**

— (*with* Roslyĭ, A. A.) Partition functions for open and/or oriented strings. **89g:32032**

— (*with* Roslyĭ, A. A.) Statistical sums for open and/or oriented strings. **89a:81097**

— String theory and the structure of universal module space. **89b:81208**

— Hyperelliptic statsums in superstring theory. **89c:81152**

— (*with* Perelomov, A. M.) Statistical sums in superstring theory. Genus 2. **89c:81153**

— (*with* Perelomov, A. M.) Partition functions in superstring theory. The case of genus two. **89d:81104**

— (*with* Ol′shanetskiĭ, M. A.) The partition function of a bosonic string compactified on an orbifold. **89d:81105**

— Explicit formulas for the one-, two-, three-, and four-loop string amplitudes in the critical dimension. **89h:81166**

— Hyperelliptic partition functions in the theory of superstrings. **89k:81164**

— Two-loop statsum of superstrings. **89j:81205**

— *see also* **Kogan, Ya. I.; et al., 89a:81171; Belavin, A. A.; et al., 89h:81165; Kallosh, R., 89j:81127; 89j:81191; 89f:81186; Lebedev, D. R., 89j:81197** *and* **Moore, Gregory W., 89m:81109**

Morris, T. R. General covariance and open string interactions. **89c:81154**

— From first to second-quantized string theory. **89i:81123**

— *see also* **Burgess, C. P., 89d:81087a** *and* **89d:81087b**

Morrow-Jones, Jonathan Lorentz transformations as inner derivations in string field theory and the associativity anomaly revisited. **89a:81141**

— *see also* **Horowitz, Gary T.; et al., 89b:81156**

Moshe, Moshe Covariant quantization of the superparticle action—zero mode of the Green and Schwarz superstring. **89f:81135**

Moss, Ian *see* **Luckock, Hugh; et al., 89e:81115**

Muhammad, Fuad *see* **Gates, S. James, Jr.; et al., 89c:81123**

Mukhi, Sunil *see* **Mathur, Samir D., 89f:81196**

Muñoz, C. *see* **Casas, J. A., 89f:81249** *and* **89m:83099**

Musto, R. *see* **Cristofano, G.; et al., 89a:81120** *and* **89j:81123**

Myers, Robert C. New dimensions for old strings. **89c:81088**

— (*with* Penati, S.; Pernici, M.; Strominger, Andrew) Soft dilaton theorem in covariant string field theory. **89k:81165**

Myhill, R. G. *see* **Hollowood, T. J., 89m:17041**

Nagao, Greg Involution-dependent constants and the cancellation of divergences in the one-loop open-string amplitude. **89h:81216**

Nakamura, Shigeru *see* **Ezawa, Z. F., 89a:81126; 89a:81127** *and* **89b:81185**

Nakanishi, Tomoki Generalized supersymmetry on Riemann surfaces and the associated string models. **89k:81166**

Nakazawa, Naohito *see* **Soda, Jiro; et al., 89b:81150**

Nanopoulos, D. V. *see* **Ellis, Jonathan Richard; et al., 89f:81252; 89f:81259** *and* **Antoniadis, I.; et al., 89k:81190**

Narain, K. S. Asymmetric orbifolds. **89f:81201**

Narganes-Quijano, Francisco J. Picture changing operation and BRST-cohomology in superstring field theory. **89j:81207**

Nazarovskiĭ, E. A. (*with* Obukhov, Yu. N.) Dynamics of the geometry in a bosonic string model. (Russian) **89h:81220**

Nelson, Philip C. *see* **Moore, Gregory W.; et al., 89b:81159; 89c:81087** *and* **Alvarez-Gaumé, L.; et al., 89m:81126**

Nemeschansky, Dennis *see* **Brustein, Ram; et al., 89h:81170**

Nepomechie, Rafael I. (*with* Zee, A.) Phase interaction between extended objects. (*see* **89b:81008**)

— *see also* **Mezincescu, Luca; et al., 89k:81163**

Neuberger, Herbert Bosonized string ghosts. **89a:81142**

— BRS cohomology and Casimir operators. **89e:81064**

Neveu, A. (*with* West, Peter) Group theoretic approach to the open bosonic string multiloop *S*-matrix. **89g:81087**

— (*with* West, Peter) Cycling, twisting, and sewing in the group theoretic approach to strings. **89j:81208**

— (*with* West, Peter) Neveu-Schwarz excited string scattering: a superconformal group computation. **89d:81106**

Neyzi, Fahrünisa *see* **Arik, M., 89f:81154**

Nicodemi, F. *see* **Cristofano, G.; et al., 89a:81120** *and* **89j:81123**

Nielsen, N. K. *see* **Fujikawa, Kazuo; et al., 89f:81176**

Niemi, Antti J. Lie-algebra cohomology and the OSp(1, 1|2) structure in string theory. **89d:81107**

— *see also* **Aratyn, Henrik; et al., 89a:81110; 89a:81111; 89b:81172** *and* **89c:81100**

van Nieuwenhuizen, P. Diagonalization of the free open spinning string and critical dimensions of nonlinear sigma models. (*see* **89f:81005**)

— *see also* **Curtright, Thomas, 89a:81121; Del Duca, V.; et al., 89c:81111; Lindström, U.; et al., 89c:81142** *and* **Fujikawa, Kazuo; et al., 89f:81176**

Nikolaevskiĭ, E. S. *see* **Vladimirskiĭ, V. V.; et al., (89d:81001)**

Nilles, H. P. Tortured tori. **89k:81167**

— *see also* **Ibáñez, L. E.; et al., 89f:81183; Font, A.; et al., 89j:81179a; 89j:81179b; 89m:81139a** *and* **89m:81139b**

Nilsson, B. E. W. *see* **Lerche, W.; et al., 89e:81159** *and* **89g:81082**

(Nilsson, Jan S.) *see* **Unification of fundamental interactions, 89f:81005**

Nima, Shuji *see* **Inoue, Kenzo^2; et al., 89j:81188**

Nishimura, Haruhiko (*with* Tabuse, M.; Takama, M.) One-point amplitude and string-loop corrected equation of motion. **89c:81155**

— *see also* **Kitazoe, T.; et al., 89h:81200**

Nishimura, Kimihide *see* **Kanno, Hiroaki; et al., 89f:81132**

Nishino, Hitoshi Superstring effects on $D = 4$, $N = 1$ supergravity. **89j:83089**

— *see also* **Grisaru, Marcus T.; et al., 89k:81090** *and* **89k:81145**

Nissimov, E. (*with* Pacheva, S.; Solomon, S.) Covariant canonical quantization of the Green-Schwarz superstring. **89a:81143**

— (*with* Pacheva, S.; Solomon, S.) Covariant first and second quantization of the $N = 2$, $D = 10$ Brink-Schwarz superparticle. **89e:81166**

— (*with* Pacheva, S.) Manifestly super-Poincaré-covariant quantization of the Green-Schwarz superstring. **89b:81211**

Nouri-Moghadam, M. (*with* Smith, C. R. R.; Taylor, John G.) Reparametrisation-invariant closed string field theory: foliation structure and physical spectrum. **89b:81212**

Núñez, Carmen *see* **Aldazabal, Gerardo; et al., 89h:81158**

Nuyts, J. *see* **Fairlie, D. B.; et al., 89h:17027**

Oattes, L. M. *see* **Dyer, C. C.; et al., 89b:83101**

Obukhov, Yu. N. *see* **Nazarovskiĭ, E. A., 89h:81220**

Ogawa, Kaku *see* **Hata, Hiroyuki; et al., 89c:81128** *and* **Itoh, Katsumi; et al., 89d:81099**

Ogura, Waichi Combinatorics of strings and equivalence of Witten's string field theory to Polyakov's string theory. **89m:81157**

Oh, Phillial (*with* Ramond, P.) Curvature of super Diff(S^1)/(S^1). **89b:58025**

— Coset representation of closed loop space in string field theory. **89e:81167**

Ohrndorf, Theophil A superadditive time coordinate for the closed bosonic string. **89f:81202**

— From conformal quantum mechanics on bordered Riemann surfaces to covariant string field theory. **89d:81108**

— Witten's string field theory on a hyperelliptic curve. **89f:81203**

— The *N*-string amplitude. “Conserved charges” and generalized boundary variations. **89m:81158**

Ohta, Nobuyoshi Quantized strings on Riemann surfaces and the string-field-theory vertex. **89i:81124**

— BRST-invariant *N*-superstring vertices. **89m:81159**

— *see also* **de Alwis, S. P., 89a:81057**

Ojima, Shuichi *see* **Soda, Jiro; et al., 89b:81150**

Okada, Yasuhiro *see* **Frampton, Paul H., 89h:81185; 89j:81180** *and* **89k:81140**

Okamoto, Yuko *see* **Kenmoku, M.; et al., 89j:81192**

Olive, D. I. Kac-Moody and Virasoro algebras in local quantum physics. **89c:17027**

— Algebras, lattices and strings 1986. (*see* **89f:81005**)

— *see also* **Goddard, Peter; et al., 89c:17030**

Olive, K. A. *see* **Ellis, Jonathan Richard; et al., 89f:81252; 89f:81259** *and* **Kalara, S.; et al., 89j:83078**

Ol′shanetskiĭ, M. A. *see* **Kogan, Ya. I.; et al., 89a:81171; Markushevich, D. G.; et al., 89a:83061** *and* **Morozov, A. Yu., 89d:81105**

Olson, Mark *see* **Freund, Peter G. O., 89d:81094** *and* **Brekke, Lee; et al., 89k:81131**

Ooguri, Hirosi (*with* Sakai, Norisuke) String loop corrections from fusion of handles and vertex operators. **89b:81214**

Osanai, A. (*with* Kamata, Masaru; Saito, Satoru) An application of half-order differential operators to two-dimensional supersymmetric theories. (Italian and Russian summaries) **89g:81088**

Ovrut, Burt A. Superstrings and the auxiliary field structure of supergravity. **89c:81156**

— *see also* **Louis, Jan; et al., 89c:81144; Garreis, Reiner; et al., 89f:81177; Cvetič, Mirjam; et al., 89j:83074** *and* **Louis, Jan; et al., 89m:81152**

Pacheva, S. *see* **Nissimov, E.; et al., 89a:81143; 89b:81211** *and* **89e:81166**

Panda, Sudhakar One-loop amplitude of bosonic strings with external massless states. **89g:81089**

Panigrahi, Prasanta K. *see* **Das, Ashok; et al., 89f:83085**

Park, Q-Han *see* **Kao, W. F.; et al., 89b:81129** *and* **Karabali, Dimitra; et al., 89k:81080**

Parkes, Andrew *see* **Lechtenfeld, Olaf, 89h:81204**

Pashnev, A. I. *see* **Gershun, V. D., 89f:81031**

Pasquinucci, A. *see* **Cecotti, S.; et al., 89j:83072**

Pasti, P. *see* **Bonora, L.; et al., 89c:83050**

Pati, Jogesh C. A new approach to unification through superstrings and preons. (*see* **89a:81005**)

Patra, M. K. (*with* Tripathy, K. C.) Indecomposable BRS modules. **89f:17026**

Pavón, Diego Landau-Lifshitz fluctuations in heterotic superstring evaporation. (Not in MR)

Pavšič, Matej Generalisation of the BDHP string action to membranes of any dimension in curved spacetime. **89h:81221**

Paz, J. P. *see* **Mazzitelli, F. D.; et al., 89a:81105**

Penati, S. *see* **Myers, Robert C.; et al., 89k:81165**

Percacci, R. *see* **Dąbrowski, L., 89d:57033**

Perelomov, A. M. *see* **Markushevich, D. G.; et al., 89a:83061; Morozov, A. Yu., 89b:81209; 89c:81153; 89d:81104** *and* **Belavin, A. A.; et al., 89h:81165**

Pérez-Mercader, Juan *see* **Chang, Ngee-Pong; et al., 89e:83068** *and* **89i:83055**

Periwal, Vipul Character twists. **89j:58130**

— *see also* **Gross, David J., 89b:81192** *and* **89f:81118**

Perlt, H. *see* **Kripfganz, J., 89e:83071**

Pernici, M. *see* **Labastida, J. M. F., 89b:81203; 89g:81105** *and* **Myers, Robert C.; et al., 89k:81165**

Peskin, Michael E. Introduction to string and superstring theory. II. **89e:81001b**

— Gauge symmetries of string field theory. (*see* **89b:83006**)

Petersen, J. L. (*with* Sidenius, J. R.) Covariant loop-calculus for the closed bosonic string. **89c:81157**

— (*with* Roland, K. O.; Sidenius, J. R.) Modular invariance and covariant loop calculus. **89b:32028**

Pettorino, R. *see* **Cristofano, G.; et al., 89a:81120** *and* **89j:81123**

Pezzella, F. *see* **Clarizia, A., 89c:81109** *and* **89j:81097**

Phong, D. H. *see* **D'Hoker, Eric, 89m:81132** *and* **(89m:81001)**

Pilch, K. (*with* Warner, N. P.) Holomorphic structure of superstring vacua. **89c:58022**

— (*with* Warner, N. P.) String structures and the index of the Dirac-Ramond operator on orbifolds. **89f:58130**

Piran, Tsvi *see* **Babul, Arif; et al., 89b:83098** *and* **89j:83091**

(Pisarski, Robert D.) *see* **David, François Louis, 89h:81178**

Pitkänen, Matti Juhani Topological geometrodynamics. (German summary) **89m:83089**

Pogrebkov, A. K. String solutions in three-dimensional field models. **89c:81158**

Pohlmeyer, K. (*with* Rehren, K.-H.) The algebra formed by the invariant charges of the Nambu-Goto theory: identification of a maximal abelian subalgebra. **89h:81222**

— The Poisson algebra of the invariant charges of the Nambu-Goto theory: Casimir elements. **89h:81223**

— (*with* Rehren, K.-H.) The invariant charges of the Nambu-Goto theory: their geometric origin and their completeness. **89h:81224**

Pokorski, S. *see* **Meissner, K. A., 89c:81149**

Polchinski, J. From Polyakov to moduli. (*see* **89m:81001**)

— (*with* Cai, Yunhai) Consistency of open superstring theories. **89i:81125**

— Factorization of bosonic string amplitudes. **89j:81212**

— *see also* **Moore, Gregory W.; et al., 89b:81159**

Polyakov, A. M. Directions in string theory. (*see* **89f:81005**)

— (*with* Zamolodchikov, Aleksandr B.) Fractal structure of two-dimensional supergravity. **89k:81168**

— *see also* **Dotsenko, Vl. S., 89m:82075**

Pope, C. N. (*with* Stelle, K. S.) The Witten index for the supermembrane. **89k:83073**

— *see also* **Bars, Itzhak; et al., 89b:81152; Bergshoeff, Eric; et al., 89f:83083; Isham, C. J., 89g:53107; Duff, M. J.; et al., 89h:81179** *and* **Bars, Itzhak; et al., 89j:81158**

Porrati, Massimo *see* **Ferrara, S.; et al., 89h:81183; 89h:81184; Kounnas, Costas, 89j:81194; Cecotti, S.; et al., 89j:83072** *and* **Ferrara, S., 89m:53132**

Pron′ko, G. P. Quantum string theory in four-dimensional space-time. (Russian. English summary) **89b:81215**

— *see also* **Borodulin, V. I.; et al., (89d:81001)**

Qiu, Zongan (*with* Strominger, Andrew) Gauge symmetries in (super)string field theory. **89h:81225**

Quevedo, F. *see* **Ibáñez, L. E.; et al., 89f:81183; Font, A.; et al., 89j:81179a; 89j:81179b; 89m:81139a** *and* **89m:81139b**

Quirós, M. *see* **Kounnas, Costas; et al., 89f:81192** *and* **Chamseddine, A. H.; et al., 89k:81135**

Rabin, Jeffrey M. *see* **Atick, Joseph J.; et al., 89f:81156**

Rabinovici, E. *see* **Bardakci, K.; et al., 89f:81159**

Radul, A. *see* **Bershadskiĭ, M. A., 89e:81136**

Ragiadakos, C. N. Bosonic string amplitude on a twisted cylinder and string interactions. **89d:81111**

— (*with* Vasiliou, A. E.) Bosonic string amplitudes on a cylinder. **89k:81169**

— An off-shell propagator for a heterotic-like string action. **89e:81169**

Rajeev, S. G. *see* **Bowick, M. J., 89a:81085** *and* **89h:81074**

Rakhmanov, M. A. *see* **Kallosh, R., 89f:81187** *and* **89i:81116**

Rakowski, Mark (*with* Thompson, George) On the associativity anomaly in open string field theory. **89a:81144**

Ramachandran, R. Some aspects of string theories. **89b:81216**

Ramond, P. (*with* Ruiz-Altaba, M.) Introduction to string field theory. **89m:81160**

— Field theory of strings. (*see* **89f:81005**)

— *see also* **Oh, Phillial, 89b:58025; Harari, Diego; et al., 89d:58021** *and* **Kleppe, Gary; et al., 89k:81152**

Ran, Z. *see* **Chang, Mei Chu,** (**89m:81001**)

Razumov, A. V. *see* **Borodulin, V. I.; et al.,** (**89d:81001**)

Rebhan, Anton (*with* Kraemmer, Ulrike) On the harmonic gauge in the quantization of strings. **89b:81141**

Redlich, A. N. Gauge fixing in string field theory using the Polyakov path integral. **89f:81207**

— Diffeomorphism parameters as coordinates in string field theory. **89h:81226**

— BRST string field theory from Wilson's renormalization group. **89i:81126**

Rego Monteiro, M. A. *see* **D'Adda, A.; et al., 89a:81122**

Rehren, K.-H. *see* **Pohlmeyer, K., 89h:81222** *and* **89h:81224**

Restuccia, A. (*with* Taylor, John G.) Absence of divergences in type II and heterotic string multiloop amplitudes. **89c:81159**

— (*with* Taylor, John G.) Constructing the superstring space-time SUSY algebra in the light-cone gauge. **89j:81214**

— (*with* Taylor, John G.) A new approach to closed string field theory. **89j:81215**

— (*with* Taylor, John G.) On closure of the light-cone gauge closed superstring algebra. **89j:81216**

— (*with* Taylor, John G.) Multi-loops for light-cone gauge superstrings. **89j:81217**

— *see also* **Bressloff, P. C.; et al., 89j:81164**

Reuter, M. Consistent interaction for infinitely many massless spin-two fields by dimensional reduction. **89g:83047**

Rinaldi, M. *see* **Bonora, L.; et al., 89d:53120; 89d:53121; 89h:81141** *and* (**89g:81058**)

Roček, M. *see* **Lindström, U., 89b:81205; 89c:81142** *and* **Fujikawa, Kazuo; et al., 89f:81176**

Rodgers, V. G. J. *see* **Harari, Diego; et al., 89d:58021**

Rodrigues, João P. Nonorientable one-loop amplitudes for the bosonic open string: electrostatics on a Möbius strip. **89f:81209**

Rodriguez-Trías, R. *see* **Abad, J., 89f:81148**

Roland, K. O. *see* **Petersen, J. L.; et al., 89b:32028**

Romans, L. J. A note on closed-string interactions à la Witten. **89a:81147**

— Operator approach to purely cubic string field theory. **89h:81227**

Römer, H. *see* **Filk, T., 89g:81072**

Roslyi, A. A. (*with* Shvarts, A. S.; Voronov, A. A.) Geometry of superconformal manifolds. **89m:58015**

— *see also* **Morozov, A. Yu., 89a:81097** *and* **89g:32032**

Ross, Douglas A. *see* **Foakes, A. P.; et al., 89b:81148; Jack, I.; et al., 89g:81056** *and* **Foakes, A. P.; et al., 89j:81178**

Ross, Graham G. *see* **Lütken, C. A., 89j:81200**

Rossi, Paolo^{1} *see* **Campostrini, Massimo; et al., 89k:81132**

Rothstein, Mitchell *see* **LeBrun, Claude, 89k:32043**

Roy, Barnana *see* **Roy, Pinaki; et al.,** (Not in MR)

Roy, Pinaki (*with* Roy, Barnana; Roychoudhury, Rajkumar) On the localisation of strings at finite temperature. (Not in MR)

Roy, S. M. (*with* Singh, Virendra) Strings with new boundary conditions and new dual amplitudes. **89c:81161**

Roychoudhury, Rajkumar *see* **Roy, Pinaki; et al.,** (Not in MR)

Roy Chowdhury, A. *see* **Sen, Shibani, 89j:81070**

Rozhanskiĭ, L. V. (*with* Tseytlin, A. A.) Consistency between the S-matrix and the sigma-model approaches to the closed string effective action on the disc. **89j:81132**

— *see also* **Krasnikov, N. V., 89e:81156**

Ruiz-Altaba, M. *see* **Gamboa, Jorge, 89j:81182** *and* **Ramond, P., 89m:81160**

Rusjan, Edmond (*with* Senjanović, Goran) Honest symmetries and complex structures of the three-generation superstring model. **89i:53057**

— (*with* Senjanović, Goran) A superstring model of four generations. **89k:14087**

Ryang, Shijong Chiral bosonization and vanishing of the three-point amplitude at two loops in the heterotic string. **89j:81218**

Sagnotti, Augusto *see* **Marcus, Neil,** (**89m:81001**)

Saidi, E. H. SU(2) classification of $N=2$ complex supersymmetric representations. **89m:81193**

Saito, Satoru String amplitudes as solutions to soliton equations. **89e:81170**

— String vertex on the Grassmann manifold. **89j:81219**

— *see also* **Osanai, A.; et al., 89g:81088**

Saito, Takesi (*with* Wu, Ke) Holomorphic geometry of interacting strings. **89c:81162**

— *see also* **Zhao, Zhi Yong; et al., 89a:58012** *and* **Konisi, Gaku; et al., 89j:81193**

Sakai, Kenji *see* **Soda, Jiro; et al., 89b:81150**

Sakai, Norisuke (*with* Abe, Mitsuko) Coupling constant relations and effective Lagrangian in the type I superstring. **89h:81229**

— *see also* **Ooguri, Hirosi, 89b:81214; Abe, Mitsuko; et al., 89f:81149; 89f:81157a** *and* **89f:81157b**

Sakamoto, Makoto *see* **Inoue, Kenzo^{2}; et al., 89a:81134; Itoh, Katsumi; et al., 89h:81195** *and* **Kobayashi, Ken-ichiro, 89k:81153**

Sakamoto, Toshio Ordinary time stochastic quantization of bosonic string and its supersymmetric effective action. **89c:81044**

Sakita, B. *see* **Gervais, Jean-Loup, 89i:81111**

Salam, A. *see* **Bergshoeff, Eric; et al., 89d:83061** *and* **89j:81136**

Saleur, H. Correlation functions of the critical Ashkin-Teller model on a torus. **89h:82053**

Salomonson, Per (*with* Skagerstam, Bo-Sture; Stern, Allen Bruce) General coupling of strings to the low-energy effective theory. **89h:83040**

— *see also* **Unification of fundamental interactions, 89f:81005**

Samuel, Stuart Generalized conserved currents in the ghost-extended superstring. **89f:81210**

— Mathematical formulation of Witten's superstring field theory. **89a:81148**

— Covariant off-shell string amplitudes. **89k:81170**

— *see also* **Kostelecký, V. Alan; et al., 89b:81201; 89c:81136; 89d:81103; Lechtenfeld, Olaf, 89j:81198** *and* **89k:81156**

Sánchez, Norma Reparametrization invariance, analytic mappings and the Hawking-Unruh effect in string theory. **89b:81218**

— Field and string quantization in curved space-times. **89m:83055**

— *see also* **de Vega, H. J., 89a:81099; Martellini, M., 89b:81083; de Vega, H. J., 89e:81123; 89k:81111** *and* **89k:81112**

Säring, B. *see* **Bardakci, K.; et al., 89f:81159**

Sato, Hikaru Classification of symmetry breaking by Wilson lines on the Z orbifold. **89a:81149**

— Strings on an orbifold with background gauge fields. **89i:81128**

Sato, Iwao^{3} A note on the vertex functions in the path-integral formulation of strings. **89i:81129**

Savvidi, G. K. Gauge of light cone in theory of relativistic surfaces. **89i:81076**

— *see also* **Laziev, M. E., 89c:81140; Biran, B.; et al., 89g:81069** *and* **Arakelyan, T. A., 89j:81154**

Sawada, Shiro *see* **Kikkawa, Keiji; et al., 89f:81133** *and* **Maeno, Masahiro, 89m:81115**

Sawhill, Bruce K. Nontrivial ground state of the closed bosonic membrane. **89b:81163**

— Extended objects in curved space-time. **89e:81121**

Sazdović, B. Equivalence of different formulations of the free Ramond string field theory. **89a:81150**

Schellekens, A. N. Multiloop modular invariance of the covariant lattice construction of fermionic strings. **89d:81112**

— *see also* **Lerche, W.; et al., 89e:81159** *and* **89g:81082**

Schimmrigk, Rolf *see* **Lynker, Monika, 89h:81212**

Schnitzer, Howard J. *see* **Kao, W. F.; et al., 89b:81129; Karabali, Dimitra, 89f:81188** *and* **89k:81080**

Schomblond, Christiane *see* **Dresse, Alain; et al., 89j:81171**

Schwartz, J. A. *see* **Kawai, Hikaru; et al., 89h:81199**

Schwarz, John H. Four-dimensional superstrings—fermionic formulation. **89c:81165**

— Superstring unification. (*see* **89b:83007**)

— The future of string theory. (*see* **89f:81005**)

— *see also* **Green, Michael B.; et al., 89f:81001a** *and* **89f:81001b**

Sciuto, S. *see* **D'Adda, A.; et al., 89a:81122; Di Vecchia, P.; et al., 89e:81142; 89f:81169** *and* **89f:81170**

Sedrakyan, A. G. *see* **Kavalov, An. R., 89g:82071**

Segrè, G. *see* **Duncan, M. J., 89a:81125**

Seiberg, Nathan *see* **Dine, Michael, 89c:81113; 89f:81171** *and* **Green, Michael B., 89g:81076**

Semenoff, Gordon W. Index theorems and superconducting cosmic strings. **89f:81211**

Sen, Ashoke Fayet-Iliopoulos D terms in string theory. **89e:81171**

— *see also* **Atick, Joseph J.; et al., 89f:81156** *and* **89j:81156**

Sen, Shibani (*with* Roy Chowdhury, A.) On a quantum version of conservation laws for derivative nonlinear Schrödinger equation. **89j:81070**

Senda, Ikuo Logarithmic divergence in four-dimensional string theory. **89h:81231**

— (*with* Sugamoto, Akio) An orbifold divided by a multi-element discrete symmetry. **89j:81220**

— (*with* Sugamoto, Akio) New orbifold model and modular transformation. **89j:81221**

Senjanović, Goran *see* **Rusjan, Edmond, 89i:53057** *and* **89k:14087**

Sevrin, A. (*with* Troost, W.; Van Proeyen, A.) Superconformal algebras in two dimensions with $N=4$. **89h:17033**

— *see also* **Gastmans, R.; et al., 89c:17036**

Sezgin, E. *see* **Bars, Itzhak; et al., 89b:81152; Bergshoeff, Eric; et al., 89c:81102; 89d:83061; 89f:83083; Duff, M. J.; et al., 89h:81179; Bergshoeff, Eric; et al., 89j:81136; Bars, Itzhak; et al., 89j:81158** *and* **Baulieu, Laurent; et al., 89k:81127**

Shafi, Q. *see* **Lazarides, G., 89j:81196; 89m:81151** *and* **89m:83087**

Shapiro, Joel A. (*with* Thorn, Charles B.) Closed string-open string transitions and Witten's string field theory. **89b:81219**

— *see also* **Freedman, Daniel Z.; et al., 89c:81119**

Shaw, William T. Twistors and strings. **89i:53058**

— *see also* **Hughston, L. P., 89i:53044** *and* **89i:53045**

Shekhtman, V. V. *see* **Beĭlinson, A. A.; et al., 89j:58039**

Shellard, E. P. S. *see* **Davis, Richard Lynn, 89i:81055**

Shi, Wan Zhong *see* **Dong, Zhi Hua; et al., 89d:81092**

Shifman, M. A. *see* **Kogan, Ya. I.; et al., 89a:81171**

Shigemoto, Kazuyasu *see* **Hayashi, Masahito; et al., 89a:81131; 89b:81193; Kenmoku, M.; et al., 89j:81192** *and* **Konisi, Gaku; et al., 89j:81193**

Shimada, T. *see* **Bern, Z., 89c:81103**

Shvarts, A. S. The fermion string and a universal modulus space. **89h:81232**

— *see also* **Baranov, M. A., 89e:81134** *and* **Roslyi, A. A.; et al., 89m:58015**

Sidenius, J. R. *see* **Petersen, J. L.; et al., 89b:32028** *and* **89c:81157**

Siegel, Warren Free field equations for everything. **89h:81095**

— The superparticle revisited. **89e:81172**

— *see also* **Gates, S. James, Jr., 89k:81142**

Sierra, Germán *see* **Jiménez Lorenzo, Fernando, 89j:81190** *and* **Alvarez-Gaumé, L.; et al., 89m:81126**

Silbermann, A. (*with* Tataru-Mihai, P.) Gauge fixing and Becchi-Rouet-Stora-Tyutin transform for strings via moduli. **89b:81144**

Silvotti, Roberto *see* **Keller, Georg, 89j:58020**

Sin, Sang-Jin Lorentz invariance of lightcone string field theory. I. Bosonic closed string. **89h:81234**

— Geometry of super lightcone diagrams and Lorentz invariance of lightcone string field theory. II. Closed Neveu-Schwarz string. (Not in MR)

Singer, Isadore M. *see* **Moore, Gregory W.; et al., 89c:81087**

Singh, Lambodar Prasad *see* **Gangopadhyay, Debashis, 89j:81183**

Singh, Virendra *see* **Roy, S. M., 89c:81161**

Siopsis, George Hamiltonian formulation of string field theory. **89a:81153**

Skagerstam, Bo-Sture *see* **Salomonson, Per; et al., 89h:83040** *and* **Unification of fundamental interactions, 89f:81005**

Sloan, John H. The scattering amplitude for four off-shell tachyons from functional integrals. **89h:81235**

Smith, C. R. R. *see* **Nouri-Moghadam, M.; et al., 89b:81212**

Soda, Jiro (*with* Nakazawa, Naohito; Sakai, Kenji; Ojima, Shuichi) Comment on the nonrenormalization theorem in the four-dimensional superstrings. **89b:81150**
Sogo, Kiyoshi A way from string to soliton. Introduction of KP coordinate to string amplitudes. **89b:81221**
Solodukhin, S. N. Strings and antisymmetric tensor fields. (Russian) **89h:81236**
Solomon, S. New canonical covariant formalism for the $N = 2, D = 10$ superparticle. **89f:81212**
— *see also* **Nissimov, E.; et al., 89a:81143** *and* **89e:81166**
Solov′ev, L. D. *see* **Borodulin, V. I.; et al.,** (**89d:81001**)
Sommerfield, C. M. *see* **Freedman, Daniel Z.; et al., 89a:81128**
Sonoda, Hidenori Functional determinants on punctured Riemann surfaces and their application to string theory. **89b:81222**
— BRST operator on a Riemann surface. **89b:81223**
— Conformal field theories with first-order Lagrangians. **89g:81090**
Sotkov, G. (*with* Stanishkov, M.) Yukawa couplings for the three-generation string model. **89k:81173a**
Spergel, David N. *see* **Babul, Arif; et al., 89b:83098** *and* **89j:83091**
Spokoĭnyĭ, B. L. Quantum geometry of non-Archimedean particles and strings. **89g:81091**
— *see also* **Goncharov, Yu. P., 89e:58022**
Srednicki, Mark (*with* Woodard, R. P.) Closed from open strings in Witten's theory. **89c:81166**
— *see also* **Fisk, Mark, 89m:81138**
Stanishkov, M. *see* **Sotkov, G., 89k:81173a**
Starkman, G. D. *see* **Dyer, C. C.; et al., 89b:83101**
Stasheff, James *see* **Bonora, L.; et al., 89d:53120** *and* **89d:53121**
Stelle, K. S. *see* **Duff, M. J.; et al., 89h:81179; Pope, C. N., 89k:83073** *and* **Gandhi, S. K., 89m:81098**
Stern, Allen Bruce *see* **Salomonson, Per; et al., 89h:83040**
Stora, R. Algèbres différentielles en théorie des champs. (English summary) [Differential algebras in field theory] **89b:81145**
Strominger, Andrew Closed string field theory as the topology of open string fields. (*see* **89a:81005**)
— Point splitting regularization of classical string field theory. **89b:81108**
— Closed string field theory as the topology of open string fields. **89j:81223**
— *see also* **Qiu, Zongan, 89h:81225** *and* **Myers, Robert C.; et al., 89k:81165**
Sudbery, A. *see* **Chung, K.-W., 89a:81169**
Suehiro, Kazuhiko Order g gauge invariance of Witten's superstring field theory. **89a:81154**
— Operator expression of Witten's superstring vertex. **89c:81167**
— *see also* **Kugo, Taichiro; et al., 89c:81138** *and* **Itoh, Katsumi; et al., 89d:81099**
Suematsu, Daijiro Generation structure and superpotential in string compactification on $N = 2$ superconformal field theory. **89k:81174**
Sugamoto, Akio *see* **Senda, Ikuo, 89j:81220** *and* **89j:81221**
Sun, Yi *see* **Gao, Hong Bo, 89h:81191**
Susskind, Leonard *see* **Klebanov, Igor, 89b:81149** *and* **89k:81151**
Suzuki, Hiroshi *see* **Fujikawa, Kazuo; et al., 89h:81188**
Szabó, László E. Quantum kinematics of strings: quantization on $C^\infty(M^3, \mathbf{R}^2)/C^\infty(M^3, \mathrm{GL}(2, \mathbf{R}))$. **89c:81169**
Tabuse, M. *see* **Nishimura, Haruhiko; et al., 89c:81155** *and* **Kitazoe, T.; et al., 89h:81200**
Takahasi, Wataru *see* **Konisi, Gaku; et al., 89j:81193**
Takama, M. Superbosonization of the superconformal ghost. **89j:81224**
— *see also* **Nishimura, Haruhiko; et al., 89c:81155**
Takano, Hiroshi *see* **Inoue, Kenzo^2; et al., 89a:81134** *and* **89j:81188**
Tamekiyo, Akira *see* **Kanno, Hiroaki; et al., 89f:81132**
Tanii, Yoshiaki One-loop amplitudes and divergences in unoriented string theories. **89m:81165**
— *see also* **Bergshoeff, Eric; et al., 89c:81102; 89d:83061** *and* **89j:81136**
Tataru-Mihai, P. *see* **Silbermann, A., 89b:81144**
Tatewaki, Machiko *see* **Kamimura, Kiyoshi, 89d:81100**
Taylor, John G. Is there only one finite superstring? (*see* **89b:81008**)
— *see also* **Nouri-Moghadam, M.; et al., 89b:81212; Restuccia, A., 89c:81159; Bressloff, P. C.; et al., 89j:81164; Restuccia, A., 89j:81214; 89j:81215; 89j:81216** *and* **89j:81217**
Taylor, T. R. Model building on asymmetric Z_3 orbifolds: nonsupersymmetric models. **89h:81237**
Tchrakian, D. H. *see* **Dolan, B. P., 89i:81087**
Teitelboim, Claudio *see* **Henneaux, M., 89b:81101** *and* **Brink, Lars, 89i:81001**
Telichko, G. N. Application of WBKJ-approximations to the study of space free oscillations of a nonslanting nonexpandable string. (Russian) (*see* **89g:00008**)
Tezuka, A. *see* **Ezawa, Z. F.; et al., 89a:81127** *and* **89b:81185**
Theisen, Stefan *see* **Lüst, Dieter, 89h:81211** *and* **Lauer, Jürgen; et al., 89k:83077**
Theodoridis, Georgios *see* **Lindström, U., 89k:81159**
Thierry-Mieg, Jean BRS analysis of Zamolodchikov's spin 2 and 3 current algebra. **89b:81086**
Thomas, Steven *see* **Bailin, David; et al., 89a:81167** *and* **89d:83060**
Thompson, Christopher Dynamics of cosmic string. **89e:83093**
Thompson, George *see* **Delbourgo, R.; et al., 89a:81068** *and* **Rakowski, Mark, 89a:81144**
Thorn, Charles B. *see* **Shapiro, Joel A., 89b:81219** *and* **Freedman, Daniel Z.; et al., 89c:81119**
Tiemblo, A. *see* **Barbero, F.; et al., 89m:81089**
Tomaras, T. N. *see* **Lazarides, G.; et al., 89m:81151**
Toms, David J. *see* **Luckock, Hugh; et al., 89e:81115**
Tonin, M. *see* **Bonora, L.; et al., 89c:83050**
Torre, C. G. *see* **Birmingham, Danny, 89c:81104**
Townsend, P. K. Supersymmetric extended solitons. **89f:83091**
— *see also* **Hull, C. M., 89e:81114; Achúcarro, A.; et al., 89f:83082** *and* **Mezincescu, Luca; et al., 89k:81163**
Traschen, Jennie Linear gravitons from strings. **89k:81176**
Tresguerres, R. *see* **Barbero, F.; et al., 89m:81089**
Trias, Antoni *see* **Gambini, Rodolfo, 89h:81189**
Tripathy, K. C. *see* **Patra, M. K., 89f:17026**
Troost, W. *see* **Gastmans, R.; et al., 89c:17036; Sevrin, A.; et al., 89h:17033** *and* **Kallosh, R.; et al., 89m:81147**
Tseytlin, A. A. The background field method in covariant second-quantized string theory. (Russian) (*see* **89d:81001**)
— Sigma-model Weyl invariance conditions and string equations of motion. **89e:81122**
— Effective action in type I quantum string theory. (Russian) **89a:81155**
— String theory effective action: string loop corrections. **89b:81226**
— Möbius infinity subtraction and effective action in the σ-model approach to closed string theory. **89e:81174**
— Renormalization of string loop corrections on the disk and the annulus. **89f:81216**
— *see also* **Metsaev, R. R., 89a:81139; Andreev, O. D., 89f:81151; 89i:81077; Rozhanskiĭ, L. V., 89j:81132; Metsaev, R. R., 89k:81093** *and* **Andreev, O. D., 89k:81125**
Turok, Neil *see* **Mitchell, David, 89b:83103** *and* **Maeda, Kei-ichi, 89h:81213**
Tye, S.-H. H. *see* **Chaudhuri, Shyamoli; et al., 89d:81088** *and* **Kawai, Hikaru; et al., 89h:81199**
Ubriaco, Marcelo R. *see* **Frampton, Paul H.; et al., 89j:81180**
Vafa, Cumrun c-theorem and the topology of 2D QFTs. **89k:81179**
— *see also* **Alvarez-Gaumé, L.; et al., 89b:81171; Freed, Daniel S., 89c:58130; Dixon, Lance J.; et al., 89g:81045; Freed, Daniel S., 89h:58197; Alvarez-Gaumé, L.; et al., 89m:81126** *and* **Harvey, Jeffrey A.; et al., 89m:81144**
Vaĭsburd, I. D. p-loop vacuum amplitude in the open bosonic string theory. **89f:81219**
Van Proeyen, A. *see* **Gastmans, R.; et al., 89c:17036; Sevrin, A.; et al., 89h:17033** *and* **Kallosh, R.; et al., 89m:81147**
Varughese, Cherian (*with* Weisberger, William I.) Off-shell amplitudes for open bosonic strings. **89c:81171**
Vasiliou, A. E. *see* **Ragiadakos, C. N., 89k:81169**
Vecsernyés, P. *see* **Balog, J.; et al., 89b:81245**
de Vega, H. J. (*with* Sánchez, Norma) A new approach to string quantization in curved spacetimes. **89a:81099**
— (*with* Sánchez, Norma) String quantization in accelerated frames and black holes. **89e:81123**
— (*with* Sánchez, Norma) Quantum dynamics of strings in black hole space times. **89k:81111**
— (*with* Sánchez, Norma) The scattering of strings by a black hole. **89k:81112**
Veneziano, G. *see* **Kubota, Takahiro, 89e:81157**
Viallet, C.-M. *see* **Bonora, L.; et al., 89e:81138**
Villasante, M. *see* **Cecotti, S.; et al., 89f:83097**
Viswanathan, K. S. (*with* Zhou, Xiaoan) (Oriented) smooth strings on genus-one surface. **89j:81226**
— (*with* Zhou, Xiaoan) H-invariance, imbedding ghost, and strings with extrinsic curvature. **89e:81175**
— (*with* Zhou, Xiaoan) Closed smooth strings on a torus. **89c:81172**
— *see also* **Matsuki, Takayuki, 89c:81147**
Viswanathan, R. Raju *see* **Kleppe, Gary; et al., 89k:81152**
Vladimirskiĭ, V. V. (*with* Il′ina, I. L.; Kiklevich, E. A.; Nikolaevskiĭ, E. S.) Breakdown of symmetry of the rotational motions of a closed relativistic string, and the singular points of the Regge trajectory. (Russian) (*see* **89d:81001**)
— The quantum closed string—a model of the pomeron. **89i:81130**
Volovich, I. V. p-adic space-time and string theory. (Russian. English summary) **89h:81239**
Voronov, A. A. A formula for the Mumford measure in superstring theory. **89g:32034**
— *see also* **Roslyĭ, A. A.; et al., 89m:58015**
Wadia, Spenta R. String loop calculation of 3-point amplitudes on orbifolds. **89c:81173**
Wali, Kameshwar *see* **Davidson, Aharon, 89i:81140**
Wallet, J. C. *see* **Ader, J. P., 89e:81132** *and* **89j:81076**
Walton, Mark A. Heterotic string on the simplest Calabi-Yau manifold and its orbifold limits. **89g:81106**
Warner, N. P. *see* **Freedman, Daniel Z.; et al., 89a:81128; Pilch, K., 89c:58022; 89f:58130** *and* **Lerche, W.; et al., 89g:81082**
Watabiki, Yoshiyuki Covariant equations of motion of background fields in the Polyakov string approach. **89g:81093**
— Weyl anomaly of the product of string vertex functions. **89f:81221**
Watamura, Satoshi *see* **Kostelecký, V. Alan; et al., 89b:81201; Carow-Watamura, Ursula, 89e:81139** *and* **89k:81133**
Waterson, G. *see* **Goddard, Peter; et al., 89c:17030**
Wei, Hua A functional form of superstring field theory. **89k:81180**
Weisberger, William I. *see* **Varughese, Cherian, 89c:81171**
Wess, Julius *see* **Louis, Jan; et al., 89c:81144**
West, Peter A review of duality, string vertices, overlap identities and the group-theoretic approach to string theory. **89j:81228**
— Multiloop ghost vertices and the determination of the multiloop measure. **89h:81187b**
— *see also* **Neveu, A., 89d:81106; 89g:81087; Freeman, M. D., 89h:81187a** *and* **Neveu, A., 89j:81208**
Wheeler, James T. 26-dimensional string from 4-dimensional geometry. **89i:83061**
(Wilkinson, Richard Bryan) *see* **Mandelstam, Stanley, 89e:81163**
Wiltshire, D. L. *see* **Achúcarro, A.; et al., 89f:83082**
Windey, P. *see* **Alvarez, Orlando,** (**89m:81001**)
Witten, Edward Topology and supersymmetric nonlinear sigma-models. **89m:58192**
— Physics and geometry. **89i:81003**
— Some remarks about string field theory. (*see* **89f:81005**)
— *see also* **Freund, Peter G. O., 89d:81095; Green, Michael B.; et al., 89f:81001a; 89f:81001b** *and* **Brekke, Lee; et al., 89k:81131**
Wolpert, Scott A. Asymptotics of the Selberg zeta function and the Polyakov bosonic integrand. (*see* **89m:81001**)
Woodard, R. P. *see* **Horowitz, Gary T.; et al., 89b:81156** *and* **Srednicki, Mark, 89c:81166**
Wu, Ke *see* **Zhao, Zhi Yong; et al., 89a:58012** *and* **Saito, Takesi, 89c:81162**
Wu, Yong Shi^1 (*with* Zee, A.) Membranes, higher Hopf maps, and phase interactions. **89f:81141**
Xiong, Chuan Sheng *see* **Dai, Yuan Ben; et al., 89f:81166** *and* **89h:81131**
Xu, Kai Wen Covariant second quantization of a spinning string in $M_d \times G$ space-time. (Chinese. English summary) **89j:81230**
Xu, Rui-Ming *see* **Grisaru, Marcus T., 89f:81179**
Yamakoshi, Hitoshi Arithmetic of strings. **89j:81231**

Yang, Li (*with* Zhu, Yu Jie) OSp(1, 1|2) and a new BRST quantization of the free open Ramond string. **89h:81241**

Yankielowicz, Shimon *see* **Bars, Itzhak, 89b:81116** *and* **Brustein, Ram; et al., 89h:81170**

Yasuda, Osamu Factorization of a two-loop four-point superstring amplitude. **89j:81258a**

— Erratum: "Factorization of a two-loop four-point superstring amplitude". **89j:81258b**

Yasui, Yukinori *see* **Matsumoto, Shuji, 89i:58092**

Yau, S.-T.) *see* **Mathematical aspects of string theory, 89m:81001**

Ye, Chang-Yuan Covariantized closed string fields from light-cone. **89k:81181**

'Yi, W. S. (*with* Kim, Kee Yong; Kim, Yong Duk) Ricci-flat and $D = 26$ conditions from the string functional measures. **89h:81242**

Ying, Peng Cheng *see* **Dong, Zhi Hua; et al., 89d:81092**

Yu, Ming The unitary representations of the $N = 4$ SU(2) extended superconformal algebras. **89b:17021**

— *see also* **Di Vecchia, P.; et al., 89f:81168**

Yu, Yue *see* **Chen, Wei; et al., 89h:81172** *and* **89k:81072**

Yur'ev, D. V. Octave and super-octave symmetries in exceptional gauge theories. (Russian. English summary) **89f:81114**

Zachos, C. K. *see* **Fairlie, D. B.; et al., 89h:17027**

Zaikov, R. P. Self-duality in the theory of the bosonic p-branes. **89h:81243**

Zamolodchikov, Aleksandr B. *see* **Polyakov, A. M., 89k:81168**

Zanelli, Jorge *see* **Gamboa, Jorge, 89h:81190**

Zanon, D. *see* **Grisaru, Marcus T.; et al., 89k:81090** *and* **89k:81145**

Zaugg, Ph. *see* **Altschüler, D.; et al., 89c:17014**

Zee, A. *see* **Wu, Yong Shi^1, 89f:81141** *and* **Nepomechie, Rafael I.**, (**89b:81008**)

Zha, Chao Zheng (*with* Dai, Jian Hui) Torsion constraints in superspace and the geometry of superstrings propagating in a supergravity background. (Chinese. English summary) **89h:83041**

Zhang, R. B. Lagrangian formulation of open and closed p-adic strings. **89k:81182**

— *see also* **Delbourgo, R.; et al., 89a:81068**

Zhang, Zhao Xi (*with* Huang, Chao Shang) Compactification from $E_8 \times E_8$ to the standard model. **89m:81194**

Zhao, Gang *see* **Luo, Liao Fu, 89f:81256**

Zhao, Wei Dong *see* **Dai, Yuan Ben; et al., 89f:81166**; **Huang, Chao Shang; et al., 89f:81182**; **Dai, Yuan Ben; et al., 89h:81131** *and* **Chen, Wei; et al., 89h:81173**

Zhao, Zhi Yong (*with* Wu, Ke; Saito, Takesi) Superstring field theories on super-flag manifolds: superdiff S^1/S^1 and superdiff $S^1/\text{super}\,S^1$. **89a:58012**

— *see also* **Huang, Chao Shang; et al., 89f:81182**

Zheltukhin, A. A. Hamiltonian structure of the antisymmetric action of a string. **89e:81176**

— On a para-Grassmann extension of the Neveu-Schwarz-Ramond algebra. (Russian. English summary) **89c:81176**

Zhou, Xiaoan *see* **Viswanathan, K. S., 89c:81172**; **89e:81175** *and* **89j:81226**

Zhu, Yu Jie *see* **Yang, Li, 89h:81241**

Zhu, Zhong Yuan (*with* Lee, Hoong Chien) Scalar field and the Polyakov string. (*see* **89h:81006**)

Zmushko, V. V. (*with* Migdal, A. A.) Generation of triangulated random surfaces by the Monte Carlo method in the grand canonical ensemble. **89j:81151**

Zorin, O. L. The general form of the gauge-invariant bosonic string field action for spacetime of arbitrary dimension. **89m:81171**

— *see also* **Borodulin, V. I.; et al.**, (**89d:81001**)

Zwiebach, Barton Constraints on covariant theories for closed string fields. **89k:81183**

— A note on covariant Feynman rules for closed strings. **89h:81140**

Zwirner, Fabio *see* **Kounnas, Costas; et al., 89f:81192**

Items listed otherwise than by author

College Park, MD ★ International Workshop on Superstrings, Cosmology, Composite Structures. **89a:81005**

Conference:

Mathematical aspects of string theory ★ Mathematical aspects of string theory. **89m:81001**

Marstrand ★ Unification of fundamental interactions. **89f:81005**

Mathematical aspects of string theory ★ Mathematical aspects of string theory. **89m:81001**

San Diego, Calif. ★ Mathematical aspects of string theory. **89m:81001**

Symposium:

Unification of Fundamental Interactions ★ Unification of fundamental interactions. **89f:81005**

Unification of fundamental interactions ★ Unification of fundamental interactions. **89f:81005**

Workshop:

Superstrings, Cosmology, Composite Structures ★ International Workshop on Superstrings, Cosmology, Composite Structures. **89a:81005**

81E40 Two-dimensional field theories, conformal field theories, and other model field theories (use only for secondary classification)

Items with secondary classifications in 81E40

Affleck, Ian (*with* Haldane, F. D. M.) Critical theory of quantum spin chains. **89a:82011**

hmed, Elsayed Mohamed Two-dimensional percolation and classical string theory. **89j:82048**

lberty, José (*with* Taormina, Anne; van Baal, P.) Relating Kac-Moody, Virasoro and Krichever-Novikov algebras. **89m:17038**

lcaraz, Francisco C. (*with* Barber, Michael N.; Batchelor, M. T.) Conformal invariance, the XXZ chain and the operator content of two-dimensional critical systems. **89f:82073**

ltschüler, D. (*with* Lacki, J.; Zaugg, Ph.) The affine Weyl group and modular invariant partition functions. **89c:17014**

lvarez-Gaumé, L. (*with* Gómez, César; Moore, Gregory W.; Vafa, Cumrun) Strings in the operator formalism. **89b:81171**

— (*with* Nelson, Philip C.; Gómez, César; Sierra, Germán; Vafa, Cumrun) Fermionic strings in the operator formalism. **89m:81126**

Alves, M. S. (*with* Barcelos-Neto, J.) Conformal transformation, gauge fields and trace anomaly. **89b:81110**

Anderson, Greg W. (*with* Moore, Gregory W.) Rationality in conformal field theory. **89j:81153**

Aoki, Kenichiro Heat kernels and super determinants of Laplace operators on super Riemann surfaces. **89j:58129**

Apikyan, S. A. (*with* Zamolodchikov, Aleksandr B.) Conformal blocks, related to conformally invariant Ramond states of a free scalar field. **89h:81160**

Arbarello, E. (*with* De Concini, C.; Kac, Victor G.; Procesi, C.) Moduli spaces of curves and representation theory. **89i:14019**

Arcuri, R. (*with* Gomes, J. F.; Olive, D. I.) Conformal subalgebras and symmetric spaces. **89a:17013**

— *see also* **Olive, D. I., 89c:17027**

Arik, M. (*with* Neyzi, Fahrünisa) Grassmannian σ-models and strings. **89f:81154**

Avignon, M. *see* **Spronken, G., 89k:82106**

van Baal, P. *see* **Alberty, José; et al., 89m:17038**

Baaquie, Belal E. The Kac-Moody and Virasoro commutation equations. **89e:81062**

Babelon, O. Extended conformal algebra and the Yang-Baxter equation. **89i:17014**

Bagger, J. A. (*with* Nemeschansky, Dennis; Yankielowicz, Shimon) Virasoro algebras with central charge $c > 1$. **89h:17034**

— (*with* Nemeschansky, Dennis; Zuber, J.-B.) Minimal model correlation functions on the torus. **89m:81130**

Banks, Thomas (*with* Dixon, Lance J.) Constraints on string vacua with spacetime supersymmetry. **89h:81163**

Barashenkov, I. V. (*with* Getmanov, B. S.) Multisoliton solutions in the scheme for unified description of integrable relativistic massive fields. Nondegenerate sl(2, **C**) case. **89b:81173**

Barber, Michael N. *see* **Alcaraz, Francisco C.; et al., 89f:82073**

Barbero, F. (*with* Julve, J.; Tiemblo, A.; Tresguerres, R.) Dynamical approach to conformal gravity and the bosonic string effective action. **89m:81089**

Barcelos-Neto, J. *see* **Alves, M. S., 89b:81110**

Bardakci, K. (*with* Rabinovici, E.; Säring, B.) String models with $c < 1$ components. **89f:81159**

Batchelor, M. T. (*with* Blöte, Henk W. J.) Conformal invariance and critical behavior of the O(n) model on the honeycomb lattice. **89m:82071**

— *see also* **Alcaraz, Francisco C.; et al., 89f:82073**

Becchi, C. (*with* Piguet, O.) On the renormalization of two-dimensional chiral models. **89m:81103**

Bellucci, Stefano (*with* Brooks, Roger; Sonnenschein, Jacob) Supersymmetric chiral bosons. (Not in MR)

Berkovich, A. (*with* Murthy, Ganpathy N.) Finite-size corrections in the nonlinear Schrödinger model. **89h:82002**

— (*with* Murthy, Ganpathy N.) Operator dimensions and surface exponents for the nonlinear Schrödinger model at $T = 0$. **89k:81129**

Bernard, Denis On the Wess-Zumino-Witten models on the torus. **89k:81130**

Bershadskiĭ, M. A. Off-shell states in the theory of a bosonic string. **89g:81068**

— (*with* Radul, A.) Fermionic fields on Z_N-curves. **89h:81167**

— The superbranch points and two-loop correction in the heterotic string theory. **89f:81128**

Bilal, Adel (*with* Gervais, Jean-Loup) Systematic approach to conformal systems with extended Virasoro symmetries. **89j:81162**

— (*with* Gervais, Jean-Loup) Superconformal algebra and super-KdV equation: two infinite families of polynomial functions with vanishing Poisson brackets. **89k:58114**

Blöte, Henk W. J. *see* **Batchelor, M. T., 89m:82071**

Bogolyubov, N. M. (*with* Izergin, A. G.; Reshetikhin, N. Yu.) Finite-size effects and critical indices of 1D quantum models. **89a:81115**

— (*with* Izergin, A. G.; Reshetikhin, N. Yu.) Finite-size effects and infrared asymptotics of the correlation functions in two dimensions. **89b:82020**

Bonini, M. (*with* Iengo, R.) Correlation functions and zero modes on higher genus Riemann surfaces. **89h:81169**

Bonora, L. (*with* Cotta-Ramusino, P.; Rinaldi, M.) Generalized Wess-Zumino terms and global anomalies in string sigma models. **89h:81141**

Bost, J.-B. Conformal and holomorphic anomalies on Riemann surfaces and determinant line bundles. **89h:58178**

Bouwknegt, Peter On the construction of modular invariant partition functions. **89h:17024**

— Extended conformal algebras. **89d:17021**

Brink, Lars (*with* Henneaux, M.) ★ Principles of string theory. **89i:81001**

Brooks, Roger *see* **Bellucci, Stefano; et al.**, (Not in MR)

Bullough, R. K. *see* **Timonen, J.; et al., 89k:82017**

Buscher, T. H. (*with* Lindström, U.; Roček, M.) New supersymmetric σ-models with Wess-Zumino terms. **89b:81118**

— Path-integral derivation of quantum duality in nonlinear sigma-models. **89d:81078**

Cai, Yunhai (*with* He, Anming) Scattering amplitude for Witten's open superstring field theory. **89a:81117**

Cappelli, A. (*with* Itzykson, C.; Zuber, J.-B.) The A-D-E classification of minimal and $A_1^{(1)}$ conformal invariant theories. **89b:81178**

Cardy, John L. Conformal invariance. **89f:82015**

— Continuously varying exponents and the value of the central charge. **89c:81081**

— *see also* **Ludwig, Andreas W. W., 89b:82027**

Cecotti, S. (*with* Ferrara, S.; Girardello, L.) A topological formula for the Kähler potential of 4D $N = 1, 2$ strings, and its implications for the moduli problem. **89m:53131**

Chang, Darwin (*with* Kumar, Alok^2) Gauge symmetry breaking by Thirring interaction in fermionic construction of superstring models. **89i:81105**

Chen, Cheng Ming *see* **Gao, Xiao Chun; et al., 89e:81063**

Chen, Yu-zhong *see* **Timonen, J.; et al., 89k:82017**

Chervon, S. V. *see* **Ivanov, G. G., 89i:81069**

Cho, B. H. *see* **Park, S. U.; et al., 89k:58129** *and* **89m:58216**

Christe, P. On exceptional operator algebras in the conformally invariant SU(2) Wess-Zumino-Witten model. **89b:81179**

Cohn, J. D. (*with* Friedan, D.) Super characters and chiral asymmetry in superconformal field theory. **89c:81110**

Cotta-Ramusino, P. *see* **Bonora, L.; et al., 89h:81141**
Cvetič, Mirjam Absence of the nonrenormalizable superpotential in the σ-model perturbation for smooth $(0,2)$ compactifications. **89b:81153**
Das, Ashok On the "current" algebra of the KdV equation. **89j:58146**
Da Silva, A. J. *see* **Gomes, Marcelo O. C.; et al., 89c:81196** *and* **89h:81080**
Date, E. (*with* Jimbo, Michio; Kuniba, A.; Miwa, Tetsuji; Okado, Masato) Exactly solvable SOS models: local height probabilities and theta function identities. **89d:82114**
David, François Louis Conformal field theories coupled to 2-D gravity in the conformal gauge. **89k:81138**
Davis, A. C. (*with* Gracey, J. A.; Macfarlane, A. J.) Nonperturbative effects in supersymmetric sigma models. **89a:81067**
De Concini, C. *see* **Arbarello, E.; et al., 89i:14019**
Destri, C. (*with* de Vega, H. J.) On the connection between the principal chiral model and the multiflavour chiral Gross-Neveu model. **89b:81123**
— (*with* de Vega, H. J.) Integrable quantum field theories and conformal field theories from lattice models in the light-cone approach. **89b:81182**
Di Francesco, P. (*with* Saleur, H.; Zuber, J.-B.) Relations between the Coulomb gas picture and conformal invariance of two-dimensional critical models. **89b:82024**
Dijkgraaf, Robbert (*with* Verlinde, Erik; Verlinde, Herman) $C = 1$ conformal field theories on Riemann surfaces. **89c:81112**
Distler, Jacques Resurrecting $(2,0)$ compactifications. **89a:81124**
Dixon, Lance J. (*with* Ginsparg, P.; Harvey, Jeffrey A.) $\hat{c} = 1$ superconformal field theory. **89m:81136**
— *see also* **Banks, Thomas, 89h:81163**
Dobrev, V. K. Characters of the unitarizable highest weight modules over the $N = 2$ superconformal algebras. **89a:17020**
— Characters of the irreducible highest weight modules over the Virasoro and super-Virasoro algebras. **89g:17006**
— (*with* Ganchev, A. Ch.) Modular invariance for the $N = 2$ twisted superconformal algebra. **89b:81183**
Dorn, H. (*with* Otto, H.-J.) On the energy-momentum tensor in nonlinear σ-models with torsion. **89b:81124**
Dotsenko, Vl. S. Off the critical point by perturbation: the Ising model spin-spin correlator. **89j:82069**
Duff, M. J. Supermembranes: the first fifteen weeks. **89d:83072**
Duistermaat, J. J. Multiplicités de représentations de groupes et l'espace de phase réduit. [Multiplicities of representations of groups and the reduced phase space] **89h:22026**
Dunne, Gerald V. (*with* Halliday, I. G.; Suranyi, Peter) Generalised bosonic construction of Virasoro algebras. **89i:17015**
Eguchi, Tohru Conformal and current algebras on a general Riemann surface. **89f:81172**
— (*with* Ooguri, Hirosi) Differential equations for conformal characters in moduli space. **89c:58137**
— (*with* Taormina, Anne) Character formulas for the $N = 4$ superconformal algebra. **89h:81181**
Ellwanger, U. (*with* Fuchs, Jürgen) String field equations and the dual S-matrix from the exact renormalization group. **89k:81088**
— (*with* Fuchs, Jürgen; Schmidt, Michael G.) The heterotic σ-model with background gauge fields. **89m:81105**
Eskin, Alex Conformal transformations and string field redefinitions. **89g:81071**
Fateev, V. A. (*with* Lykyanov, S. L.) The models of two-dimensional conformal quantum field theory with Z_n symmetry. **89b:81186**
Felder, G. (*with* Gawędzki, K.; Kupiainen, A.) Spectra of Wess-Zumino-Witten models with arbitrary simple groups. **89k:81077**
Ferrara, S. (*with* Kounnas, Costas; Porrati, Massimo) Superstring solutions with spontaneously broken four-dimensional symmetries. **89h:81183**
— *see also* **Cecotti, S.; et al., 89m:53131**
Floreanini, Roberto Representing functionally the two-dimensional conformal group. **89d:81093**
Fradkin, E. S. (*with* Pal'chik, M. Ya.) Conformal invariance in two-dimensional field theory. **89e:81143**
— (*with* Pal'chik, M. Ya.) Closed set of equations for Green functions in conformal invariant quantum field theory. (*see* **89m:81002**)
— *see also* **Pal'chik, M. Ya.,** (**89d:81001**)
Fradkin, Eduardo (*with* Naón, Carlos M.; Schaposnik, Fidel A.) Constrained Fermi systems and Virasoro algebras. **89c:81118**
Friedan, D. A new formulation of string theory. (*see* **89f:81005**)
— *see also* **Cohn, J. D., 89c:81110**
Fröhlich, Jürg Statistics and monodromy in two- and three-dimensional quantum-field theory. **89k:81078**
Fuchs, Jürgen Conformal embeddings and hidden symmetries of free fermion theories. **89e:81144**
— *see also* **Ellwanger, U., 89k:81088** *and* **89m:81105**
Fujii, Kazuyuki (*with* So, Hiroto; Suwa, Misako) Extended Skyrme models in even dimensions and higher-dimensional solitons. II. Wess-Zumino terms in two and higher dimensions. **89m:81142**
Fujikawa, Kazuo Path integral, BRS symmetry, and string and membrane theories. **89k:81079**
Gal'perin, A. S. (*with* Ivanov, Evgeniĭ Alekseevich^2; Ogievetskiĭ, V. I.; Sokatchev, E. S.) Conformal invariance in harmonic superspace. **89m:81096**
— (*with* Ivanov, Evgeniĭ Alekseevich^2; Ogievetskiĭ, V. I.) Superspaces for $N = 3$ supersymmetry. **89m:81097**
Ganchev, A. Ch. *see* **Dobrev, V. K., 89b:81183**
Gao, Hong Bo Coadjoint orbit of the Virasoro group and the index theorem on Diff S^1/S^1. **89j:22041**
Gao, Xiao Chun (*with* Chen, Cheng Ming; Wang, Yong) An infinite set of nonlocal conserved currents in a two-dimensional nonlinear σ-model. (Chinese. English summary) **89e:81063**
Gastmans, R. (*with* Sevrin, A.; Troost, W.; Van Proeyen, A.) Infinite-dimensional extended superconformal Lie algebras. **89c:17036**
Gawędzki, K. *see* **Felder, G.; et al., 89k:81077**
Ge, Mo Lin *see* **Lü, Jing Fa, 89f:81194**
Gepner, Doron New conformal field theories associated with Lie algebras and their partition functions. **89b:81188**
— Exactly solvable string compactifications on manifolds of SU(N) holonomy. **89h:83035**
Gervais, Jean-Loup p-adic analyticity and Virasoro algebras for conformal theories in more than two dimensions. **89d:81096**
— *see also* **Bilal, Adel, 89j:81162** *and* **89k:58114**
Getmanov, B. S. *see* **Barashenkov, I. V., 89b:81173**
Giddings, Steven B. Conformal techniques in string theory and string field theory. **89k:81143**
Ginsparg, P. Curiosities at $c = 1$. **89e:81147**
— *see also* **Dixon, Lance J.; et al., 89m:81136**
Girardello, L. *see* **Cecotti, S.; et al., 89m:53131**
Giroux, Ghislain (*with* Saint-Aubin, Yvan) Soliton solutions to various σ models with a Wess-Zumino term. **89a:81073**
Goddard, Peter (*with* Nahm, Werner; Olive, D. I.; Ruegg, H.; Schwimmer, Adam) Fermions and octonions. **89g:17014**
— (*with* Schwimmer, Adam) Unitary construction of extended conformal algebras. **89g:81075**
— (*with* Schwimmer, Adam) Factoring out free fermions and superconformal algebras. **89j:81185**
Gölzer, B. A novel 15-vertex solution of the Sutherland equation. **89j:82071**
Gomes, J. F. *see* **Arcuri, R.; et al., 89a:17013** *and* **Olive, D. I., 89c:17027**
Gomes, Marcelo O. C. (*with* Kurak, V.; Da Silva, A. J.) Weyl fields, quantum integrability and conformal invariant field theories. **89h:81080**
— (*with* Kurak, V.; Da Silva, A. J.) Superconformal invariant nonlinear σ-models from the bosonic ones. **89c:81196**
Gómez, César *see* **Alvarez-Gaumé, L.; et al., 89b:81171** *and* **89m:81126**
Goulian, Mark D. (*with* Hernández, Oscar F.) Constraints on representations of conformal field theories. **89j:81187**
Gracey, J. A. *see* **Davis, A. C.; et al., 89a:81067**
Grignani, G. (*with* Mintchev, M.) The effect of gauge and Lorentz anomalies on the beta functions of heterotic sigma models. **89e:81107**
— (*with* Mintchev, M.) Renormalization and conformal properties of σ models on Riemannian space with torsion. **89k:81089**
Haldane, F. D. M. *see* **Affleck, Ian, 89a:82011**
Halliday, I. G. *see* **Dunne, Gerald V.; et al., 89i:17015**
Hamada, K.-J. (*with* Takao, Masaru) Supersymmetric Yang-Mills theory in two-dimensional superspace and super Kac-Moody algebra. **89h:81105**
— (*with* Takao, Masaru) Spin-4 current algebra. **89j:81077a**
— (*with* Takao, Masaru) Errata: "Spin-4 current algebra". **89j:81077b**
Harada, Koji (*with* Tsutsui, Izumi) Operator solutions of the bosonized chiral Schwinger model. **89j:81125**
Harvey, Jeffrey A. Minimal conformal models and string compactification. **89i:81112**
— (*with* Moore, Gregory W.; Vafa, Cumrun) Quasicrystalline compactification. **89m:81144**
— *see also* **Dixon, Lance J.; et al., 89m:81136**
He, Anming *see* **Cai, Yunhai, 89a:81117**
Henneaux, M. *see* **Brink, Lars, 89i:81001**
Hernández, Oscar F. *see* **Goulian, Mark D., 89j:81187**
Horowitz, Gary T. (*with* Martin, Stephen P.) Conformal field theory and the symmetries of string field theory. **89b:81194**
Hou, Bo Yu (*with* Li, Wei^7) Generating functions with new hidden symmetries for cylindrically symmetric gravitational fields. **89k:83039**
Howe, P. S. (*with* Papadopoulos, G.) Anomalies in two-dimensional supersymmetric nonlinear σ models. **89a:81132**
— (*with* Papadopoulos, G.; Stelle, K. S.) The background field method and the nonlinear σ-model. **89e:81108**
Hull, C. M. (*with* Townsend, P. K.) String effective actions from sigma-model conformal anomalies. **89e:81114**
— Covariant quantization of chiral bosons and anomaly cancellation. **89k:81148**
Huq, M. On covariant quantization of massive superparticle. **89m:81145**
Iengo, R. *see* **Bonini, M., 89h:81169**
Iglói, F. Quantum Ising model on a quasiperiodic lattice. **89k:82085**
Inoue, Kazuhiko (*with* Odaka, Kazuhiko; Omote, Minoru) Infinite number of conserved quantities and extended conformal algebra in the Thirring model. **89b:81195**
Ishibashi, N. *see* **Kitazawa, Y.; et al., 89m:81149**
Itzykson, C. Critical two-dimensional statistical systems: conformal and modular invariance. **89i:82017**
— *see also* **Cappelli, A.; et al., 89b:81178**
Ivanov, Evgeniĭ Alekseevich^2 (*with* Krivonos, S. O.; Leviant, V. M.) A new class of superconformal sigma models with the Wess-Zumino action. **89h:81196**
— *see also* **Gal'perin, A. S.; et al., 89m:81096** *and* **89m:81097**
Ivanov, G. G. (*with* Chervon, S. V.) Exact solutions in the SO(3)-invariant nonlinear sigma-model that are connected with isometric and homothetic symmetries. (Russian) **89i:81069**
Izergin, A. G. *see* **Bogolyubov, N. M.; et al., 89a:81115** *and* **89b:82020**
Jaffe, Arthur (*with* Lesniewski, Andrzej; Weitsman, Jonathan) The loop space $S^1 \to \mathbf{R}$ and supersymmetric quantum fields. **89i:58135**
Jayaraman, T. (*with* Narain, K. S.) Gluing procedures for holomorphic conformal field theories on Riemann surfaces. **89e:81153**
Jevicki, Antal Construction of interacting string and superstring field theory. **89h:81198**
Jimbo, Michio *see* **Date, E.; et al., 89d:82114** *and* **Okado, Masato; et al., 89j:82083**
Johannesson, Henrik Universality classes of critical antiferromagnets. **89k:82096**
— Central charge for the integrable higher-spin XXZ model. **89m:82077**
Julve, J. *see* **Barbero, F.; et al., 89m:81089**
Kac, Victor G. (*with* Sanielevici, Mihaela Niculescu) Decompositions of representations of exceptional affine algebras with respect to conformal subalgebras. **89h:17037**
— *see also* **Arbarello, E.; et al., 89i:14019**
Kanie, Yukihiro *see* **Tsuchiya, Akihiro, 89f:58073; 89k:17040** *and* **89m:81166**

Kanno, Hiroaki (*with* Nishimura, Kimihide; Tamekiyo, Akira) Two-point functions on supertorus and supermodular invariance. **89f:81132**

Karlhede, A. (*with* Roček, M.) Topological quantum field theory and $N = 2$ conformal supergravity. **89k:81102**

Kastor, David (*with* Martinec, Emil; Qiu, Zongan) Current algebra and conformal discrete series. **89b:81197**

Kato, Akishi Classification of modular invariant partition functions in two dimensions. **89d:81101**

— *see also* **Kitazawa, Y.; et al., 89m:81149**

Kato, Mitsuhiro (*with* Matsuda, Satoshi) Oscillator representation of Virasoro algebra and Kac determinant. **89c:17026**

Kawamoto, Noboru (*with* Namikawa, Yukihiko; Tsuchiya, Akihiro; Yamada, Yasuhiko) Geometric realization of conformal field theory on Riemann surfaces. **89i:14020**

Kazama, Yoichi Introduction to twisted conformal fields. **89g:81079**

Keller, Georg (*with* Silvotti, Roberto) Quantum measure and Weyl anomaly of two-dimensional bosonic nonlinear σ-models. **89j:58020**

Kent, Adrian (*with* Riggs, Harold) Determinant formulae for the $N = 4$ superconformal algebras. **89g:81080**

— (*with* Mattis, Michael; Riggs, Harold) Highest weight representations of the $N = 3$ superconformal algebras and their determinant formulae. **89h:17029**

Ketov, S. V. (*with* Tyutin, I. V.) Self-action for $N = 2$ multiplets in $d = 4$ and the ultraviolet finiteness of two-dimensional $N = 4$ σ-models. (Russian) (*see* **89d:81001**)

— (*with* Tyutin, I. V.) A new nonlinear σ-model with $N = 4$ extended supersymmetry. (Russian) **89b:81131**

Kim, Kee Yong *see* **l'Yi, W. S.; et al., 89h:81242**

Kim, Yong Duk *see* **l'Yi, W. S.; et al., 89h:81242**

Kiritsis, Elias B. Character formulae and the structure of the representations of the $N = 1$, $N = 2$ superconformal algebras. **89k:17048**

— The $\hat{c} = \frac{2}{3}$ minimal $N = 1$ superconformal system and its realisation in the critical O(2) Gaussian model. **89e:81126**

— Proof of the completeness of the classification of rational conformal theories with $c = 1$. **89k:81150**

Kitazawa, Y. (*with* Ishibashi, N.; Kato, Akishi; Kobayashi, Ken-ichiro; Matsuo, Yutaka; Odake, S.) Operator product expansion coefficients in $N = 1$ superconformal theory and slightly relevant perturbation. **89m:81149**

Klümper, A. (*with* Zittartz, J.) Eigenvalues of the eight-vertex model transfer matrix and the spectrum of the XYZ Hamiltonian. **89m:82078**

Knizhnik, V. G. Analytic fields on Riemannian surfaces. **89b:81198**

— Analytic fields on Riemann surfaces. II. **89b:81199**

Kobayashi, Ken-ichiro (*with* Odake, S.) Fermionic construction of $N = 0, 1, 2$ (super) conformal algebras. **89h:81081**

— *see also* **Kitazawa, Y.; et al., 89m:81149**

Koh, I. G. (*with* Yu, Ming) Nonabelian bosonization in higher genus Riemann surfaces. **89h:81201**

Kounnas, Costas *see* **Ferrara, S.; et al., 89h:81183**

Krichever, I. M. (*with* Novikov, S. P.) Algebras of Virasoro type, Riemann surfaces and strings in Minkowski space. (Russian) **89f:17020**

Krive, I. V. (*with* Pastur, L. A.; Rozhavskiĭ, A. S.) Restoration of chiral symmetry in a stochastic external field. **89c:81137**

Krivonos, S. O. *see* **Ivanov, Evgeniĭ Alekseevich^2; et al., 89h:81196**

Kumar, Alok^2 *see* **Chang, Darwin, 89i:81105**

Kuniba, A. *see* **Date, E.; et al., 89d:82114**

Kupiainen, A. *see* **Felder, G.; et al., 89k:81077**

Kurak, V. Remarks on degenerate theories of the conformal invariant quantum field theory. **89c:81061**

— *see also* **Gomes, Marcelo O. C.; et al., 89c:81196** *and* **89h:81080**

Laberge, C.-A. (*with* Mathieu, Pierre) $N = 2$ superconformal algebra and integrable O(2) fermionic extensions of the Korteweg-de Vries equation. **89m:58097**

Lacki, J. *see* **Altschüler, D.; et al., 89c:17014**

Lang, Wolfdieter The minimal superconformal $(p, 0)$ supercurrents in two dimensions. **89c:81139**

Lerche, W. (*with* Warner, N. P.) Index theorems in $N = 2$ superconformal theories. **89g:81083**

Lesniewski, Andrzej *see* **Jaffe, Arthur; et al., 89i:58135**

Leviant, V. M. *see* **Ivanov, Evgeniĭ Alekseevich^2; et al., 89h:81196**

Li, Keke (*with* Warner, N. P.) Bosonic realization of $N = 2$ super-conformal algebras. **89m:81073**

Li, Wei^7 On the remark of the existence of Virasoro symmetry for the nonlinear σ model. **89j:81105**

— *see also* **Hou, Bo Yu, 89k:83039**

Lindström, U. *see* **Buscher, T. H.; et al., 89b:81118**

Link, Robert (*with* Roberge, A.; Semenoff, Gordon W.) Lorentz invariant exact solution of the anomalous chiral Schwinger model. **89i:81082**

Liu, Bang Gui Dilaton vertices of the closed superstring and the heterotic string. **89h:81210**

Lü, Jing Fa (*with* Ge, Mo Lin) On algebraic structures in the nonlinear principal chiral model. **89f:81194**

Lu, Shi Rong On modular invariant partition functions in nonunitary theories. **89k:81161**

Ludwig, Andreas W. W. (*with* Cardy, John L.) Perturbative evaluation of the conformal anomaly at new critical points with applications to random systems. **89b:82027**

Lüst, Dieter (*with* Theisen, Stefan) Four-dimensional heterotic strings—orbifolds and covariant lattices. **89h:81211**

Lykyanov, S. L. *see* **Fateev, V. A., 89b:81186**

Lynker, Monika (*with* Schimmrigk, Rolf) Heterotic string compactification on $N = 2$ superconformal theories with $c = 9$. **89h:81212**

Macfarlane, A. J. *see* **Davis, A. C.; et al., 89a:81067**

Martin, Stephen P. Conformal field theory representation and background-independent action for superstring field theory. **89m:81153**

— *see also* **Horowitz, Gary T., 89b:81194**

Martinec, Emil *see* **Kastor, David; et al., 89b:81197**

Mathieu, Pierre *see* **Laberge, C.-A., 89m:58097**

Mathur, Samir D. (*with* Mukhi, Sunil; Sen, Ashoke) Correlators of primary fields in the SU(2) WZW theory on Riemann surfaces. **89m:81154**

Matsuda, Satoshi *see* **Kato, Mitsuhiro, 89c:17026**

Matsuki, Takayuki BRS anomaly for string theories. **89j:81204**

Matsuo, Yutaka Moduli space, conformal algebra and operator formulation on a Riemann surface. **89f:81197**

— *see also* **Kitazawa, Y.; et al., 89m:81149**

Mattis, Michael Correlations in 2-dimensional critical theories. **89b:82028**

— *see also* **Kent, Adrian; et al., 89h:17029**

Mavromatos, N. E. A remark on the connection between the C-theorem and the central charge action in closed bosonic σ-models. **89f:81198**

— (*with* Miramontes, J. L.) Zamolodchikov's c-theorem and string effective actions. **89i:81119**

McCoy, Barry M. (*with* Perk, Jacques H. H.) Relation of conformal field theory and deformation theory for the Ising model. **89b:81206**

Meurman, A. (*with* Santharoubane, L. J.) Cohomology and Harish-Chandra modules over the Virasoro algebra. **89e:17017**

Mickelsson, Jouko On the geometry of Dirac determinant bundles in two dimensions. **89g:58195**

Miki, Kei Determinant of twisted bosons related to the Kac-Moody algebra. **89a:81140**

Mintchev, M. *see* **Grignani, G., 89e:81107** *and* **89k:81089**

Miramontes, J. L. *see* **Mavromatos, N. E., 89i:81119**

Miwa, Tetsuji *see* **Date, E.; et al., 89d:82114** *and* **Okado, Masato; et al., 89j:82083**

Moore, Gregory W. (*with* Seiberg, Nathan) Polynomial equations for rational conformal field theories. **89m:81155**

— *see also* **Alvarez-Gaumé, L.; et al., 89b:81171; Anderson, Greg W., 89j:81153** *and* **Harvey, Jeffrey A.; et al., 89m:81144**

Mukhi, Sunil *see* **Mathur, Samir D.; et al., 89m:81154**

Murthy, Ganpathy N. *see* **Berkovich, A., 89h:82002** *and* **89k:81129**

Myung, Y. S. *see* **Park, S. U.; et al., 89k:58129**

Nahm, Werner Lie group exponents and SU(2) current algebras. **89k:81055**

— *see also* **Goddard, Peter; et al., 89g:17014**

Namikawa, Yukihiko *see* **Kawamoto, Noboru; et al., 89i:14020**

Naón, Carlos M. *see* **Fradkin, Eduardo; et al., 89c:81118**

Narain, K. S. *see* **Jayaraman, T., 89e:81153**

Nelson, Philip C. Analytic structure of two-dimensional quantum field theories. (*see* **89m:81001**)

— Holomorphic coordinates for supermoduli space. **89b:32027**

— *see also* **Alvarez-Gaumé, L.; et al., 89m:81126**

Nemeschansky, Dennis *see* **Bagger, J. A.; et al., 89h:17034** *and* **89m:81130**

Neveu, A. (*with* West, Peter) Neveu-Schwarz excited string scattering: a superconformal group computation. **89d:81106**

Neyzi, Fahrünisa *see* **Arik, M., 89f:81154**

van Nieuwenhuizen, P. Diagonalization of the free open spinning string and critical dimensions of nonlinear sigma models. (*see* **89f:81005**)

Nishimura, Kimihide *see* **Kanno, Hiroaki; et al., 89f:81132**

Novikov, S. P. *see* **Krichever, I. M., 89f:17020**

Odaka, Kazuhiko *see* **Inoue, Kazuhiko; et al., 89b:81195**

Odake, S. *see* **Kobayashi, Ken-ichiro, 89h:81081** *and* **Kitazawa, Y.; et al., 89m:81149**

Ogievetskiĭ, V. I. *see* **Gal′perin, A. S.; et al., 89m:81096** *and* **89m:81097**

Ohrndorf, Theophil From conformal quantum mechanics on bordered Riemann surfaces to covariant string field theory. **89d:81108**

Ohta, Nobuyoshi BRST-invariant N-superstring vertices. **89m:81159**

Okado, Masato (*with* Jimbo, Michio; Miwa, Tetsuji) Two-dimensional solvable lattice models and modular functions. (Japanese) **89j:82083**

— *see also* **Date, E.; et al., 89d:82114**

Olive, D. I. Kac-Moody and Virasoro algebras in local quantum physics. **89c:17027**

— Algebras, lattices and strings 1986. (*see* **89f:81005**)

— *see also* **Arcuri, R.; et al., 89a:17013** *and* **Goddard, Peter; et al., 89g:17014**

Olivier, Dominique (*with* Valent, G.) Methods in hyper-Kähler σ models building. (*see* **89g:81058**)

Omote, Minoru *see* **Inoue, Kazuhiko; et al., 89b:81195**

Ooguri, Hirosi (*with* Sakai, Norisuke) String loop corrections from fusion of handles and vertex operators. **89b:81214**

— *see also* **Eguchi, Tohru, 89c:58137**

Otto, H.-J. *see* **Dorn, H., 89b:81124**

Pal′chik, M. Ya. Conformal invariance in quantum nonabelian gauge field theory. **89g:81050**

— (*with* Fradkin, E. S.) Conformal invariance in two-dimensional field theory. (Russian) (*see* **89d:81001**)

— Conformal transformations of quantum gauge fields. (Russian) (*see* **89d:81001**)

— Conformal transformations of quantum fields in gauge theories. **89f:81106**

— (*with* Zaĭkin, V. N.) Calculation of critical indices in N-component $\lambda\varphi_3^4$-model by the methods of conformal field theory. **89f:81124**

— *see also* **Fradkin, E. S., 89e:81143** *and* (**89m:81002**)

Papadopoulos, G. *see* **Howe, P. S., 89a:81132** *and* **89e:81108**

Park, S. U. (*with* Cho, B. H.; Myung, Y. S.) Z_3-symmetric conformal algebra from KdV-type equation. **89k:58129**

— (*with* Cho, B. H.) The extended Virasoro algebras from Z_N symmetric spectral equations. **89m:58216**

Pastur, L. A. *see* **Krive, I. V.; et al., 89c:81137**

Perk, Jacques H. H. *see* **McCoy, Barry M., 89b:81206**

Peskin, Michael E. Introduction to string and superstring theory. II. **89e:81001b**

Piette, B. (*with* Stokoe, I.; Zakrzewski, W. J.) On stability of solutions of the U(N) chiral model in two dimensions. **89d:58031**

Piguet, O. *see* **Becchi, C., 89m:81103**

Pilling, D. J. *see* **Timonen, J.; et al., 89k:82017**

Polchinski, J. From Polyakov to moduli. (*see* **89m:81001**)

Polyakov, A. M. (*with* Zamolodchikov, Aleksandr B.) Fractal structure of two-dimensional supergravity. **89k:81168**

Porrati, Massimo *see* **Ferrara, S.; et al., 89h:81183**
Procesi, C. *see* **Arbarello, E.; et al., 89i:14019**
Qiu, Zongan Modular invariant partition functions for $N = 2$ superconformal field theories. **89d:81109**
— Conformal field theories and modular invariant partition functions for parafermion field theories. **89d:81110**
— *see also* **Kastor, David; et al., 89b:81197**
Rabinovici, E. *see* **Bardakci, K.; et al., 89f:81159**
Radul, A. *see* **Bershadskii, M. A., 89h:81167**
Raina, A. K. *see* **Sen, Siddhartha^1, 89m:81163**
Ravanini, Francesco (*with* Yang, Sung-Kil) Modular invariance in $N = 2$ superconformal field theories. **89c:17028**
— Modular invariance in S_3 symmetric 2D conformal field theories. **89a:81145**
— An infinite class of new conformal field theories with extended algebras. **89f:81205**
— (*with* Yang, Sung-Kil) C-disorder fields and $\Gamma(2)$-invariant partition functions in parafermionic conformal field theories. **89f:81206**
Redlich, A. N. (*with* Schnitzer, Howard J.; Tsokos, K.) Bose-Fermi equivalence on the two-dimensional torus for simply-laced groups. **89a:81146**
Rehren, K.-H. Locality of conformal fields in two dimensions: exchange algebra on the light-cone. **89d:81051**
— (*with* Schroer, Bert) Quasiprimary fields: an approach to positivity of 2D conformal quantum field theory. **89j:81213**
Reshetikhin, N. Yu. *see* **Bogolyubov, N. M.; et al., 89a:81115** *and* **89b:82020**
Riggs, Harold *see* **Kent, Adrian, 89g:81080** *and* **89h:17029**
Rinaldi, M. *see* **Bonora, L.; et al., 89h:81141**
Roberge, A. *see* **Link, Robert; et al., 89i:81082**
Roček, M. *see* **Buscher, T. H.; et al., 89b:81118** *and* **Karlhede, A., 89k:81102**
Rocha-Caridi, Alvany Representation theory of the Virasoro and super-Virasoro algebras: irreducible characters. **89d:17023**
Romans, L. J. Operator approach to purely cubic string field theory. **89h:81227**
Rozhavskii, A. S. *see* **Krive, I. V.; et al., 89c:81137**
Ruegg, H. *see* **Goddard, Peter; et al., 89g:17014**
Saint-Aubin, Yvan *see* **Giroux, Ghislain, 89a:81073**
Sakai, Norisuke *see* **Ooguri, Hirosi, 89b:81214**
Saleur, H. Correlation functions of the critical Ashkin-Teller model on a torus. **89h:82053**
— *see also* **Di Francesco, P.; et al., 89b:82024**
Samuel, Stuart Generalized conserved currents in the ghost-extended superstring. **89f:81210**
Sanielevici, Mihaela Niculescu (*with* Semenoff, Gordon W.) Conformal field theory and the geometry of second quantization. **89f:81138**
— *see also* **Kac, Victor G., 89h:17037**
Santharoubane, L. J. *see* **Meurman, A., 89e:17017**
Säring, B. *see* **Bardakci, K.; et al., 89f:81159**
Schaposnik, Fidel A. *see* **Fradkin, Eduardo; et al., 89c:81118**
Schimmrigk, Rolf *see* **Lynker, Monika, 89h:81212**
Schmidt, Michael G. *see* **Ellwanger, U.; et al., 89m:81105**
Schnitzer, Howard J. *see* **Redlich, A. N.; et al., 89a:81146**
Schroer, Bert Quantum field theory on Riemann surfaces and the unitarity problem. **89a:81151**
— Operator approach to conformal invariant quantum field theories and related problems. **89m:81162**
— *see also* **Rehren, K.-H., 89j:81213**
Schwimmer, Adam *see* **Goddard, Peter; et al., 89g:17014; 89g:81075** *and* **89j:81185**
Seiberg, Nathan *see* **Moore, Gregory W., 89m:81155**
Semenoff, Gordon W. Nonassociative electric fields in chiral gauge theory: an explicit construction. **89d:81069a**
— Erratum: "Nonassociative electric fields in chiral gauge theory: an explicit construction". **89d:81069b**
— *see also* **Sanielevici, Mihaela Niculescu, 89f:81138** *and* **Link, Robert; et al., 89i:81082**
Sen, Ashoke *see* **Mathur, Samir D.; et al., 89m:81154**
Sen, Siddhartha^1 (*with* Raina, A. K.) Grassmannians, multiplicative Ward identities and theta-function identities. **89m:81163**
Sevrin, A. *see* **Gastmans, R.; et al., 89c:17036; Spindel, Ph.; et al., 89f:81139** *and* **89m:53138**
Shizuya, Ken-ichi Fermionic representation of the Wess-Zumino term and the chiral Schwinger model. **89j:81115**
Siegel, Warren Free field equations for everything. **89h:81095**
Sierra, Germán *see* **Alvarez-Gaumé, L.; et al., 89m:81126**
Silvotti, Roberto *see* **Keller, Georg, 89j:58020**
Smit, Jan (*with* Vink, Jeroen C.) Topological charge and fermions in the two-dimensional lattice U(1) model. I. Staggered fermions. **89f:81145**
So, Hiroto *see* **Fujii, Kazuyuki; et al., 89m:81142**
Sokatchev, E. S. *see* **Gal′perin, A. S.; et al., 89m:81096**
Sonnenschein, Jacob *see* **Bellucci, Stefano; et al.,** (Not in MR)
Sonoda, Hidenori Conformal field theories with first-order Lagrangians. **89g:81090**
— Simple superconformal field theories in two dimensions. **89k:81172**
Spindel, Ph. (*with* Sevrin, A.; Troost, W.; Van Proeyen, A.) Extended supersymmetric σ-models on group manifolds. I. The complex structures. **89m:53138**
— (*with* Sevrin, A.; Troost, W.; Van Proeyen, A.) Complex structures on parallelised group manifolds and supersymmetric σ-models. **89f:81139**
Spronken, G. (*with* Avignon, M.) The one-dimensional dimerised spin-$\frac{1}{2}$ XY chain with arbitrary boundary conditions and related unitary and nonunitary models. **89k:82106**
Stelle, K. S. *see* **Howe, P. S.; et al., 89e:81108**
Stokoe, I. *see* **Piette, B.; et al., 89d:58031**
Suematsu, Daijiro Generation structure and superpotential in string compactification on $N = 2$ superconformal field theory. **89k:81174**
Suranyi, Peter Algebraic construction of partition functions for $c < 1$ minimal conformal field theories. **89k:81175**
— *see also* **Dunne, Gerald V.; et al., 89i:17015**
Suwa, Misako *see* **Fujii, Kazuyuki; et al., 89m:81142**
Takama, M. Superbosonization of the superconformal ghost. **89j:81224**
Takao, Masaru *see* **Hamada, K.-J., 89h:81105; 89j:81077a** *and* **89j:81077b**
Tamekiyo, Akira *see* **Kanno, Hiroaki; et al., 89f:81132**
Tanaka, Katsumi Curvature form and solutions of nonlinear models. **89k:58311**
Taormina, Anne *see* **Eguchi, Tohru, 89h:81181** *and* **Alberty, José; et al., 89m:17038**
(Teitelboim, Claudio) *see* **Brink, Lars, 89i:81001**
Theisen, Stefan *see* **Lüst, Dieter, 89h:81211**
Thierry-Mieg, Jean BRS analysis of Zamolodchikov's spin 2 and 3 current algebra. **89b:81086**
Tiemblo, A. *see* **Barbero, F.; et al., 89m:81089**
Timonen, J. (*with* Pilling, D. J.; Chen, Yu-zhong; Bullough, R. K.) Recent results on the statistical mechanics of integrable models in $1 + 1$ dimensions. **89k:82017**
Townsend, P. K. *see* **Hull, C. M., 89e:81114**
Traschen, Jennie Linear gravitons from strings. **89k:81176**
Tresguerres, R. *see* **Barbero, F.; et al., 89m:81089**
Troost, W. *see* **Gastmans, R.; et al., 89c:17036; Spindel, Ph.; et al., 89f:81139** *and* **89m:53138**
Tseytlin, A. A. Sigma-model Weyl invariance conditions and string equations of motion. **89e:81122**
Tsokos, K. *see* **Redlich, A. N.; et al., 89a:81146**
Tsuchiya, Akihiro (*with* Kanie, Yukihiro) Unitary representations of the Virasoro algebra and branching law of representations of affine Lie algebras. **89k:17040**
— (*with* Kanie, Yukihiro) Vertex operators in the conformal field theory on $\mathbf{P}^1$ and monodromy representations of the braid group. **89f:58073**
— (*with* Kanie, Yukihiro) Vertex operators in conformal field theory on $\mathbf{P}^1$ and monodromy representations of braid group. **89m:81166**
— *see also* **Kawamoto, Noboru; et al., 89i:14020**
Tsutsui, Izumi *see* **Harada, Koji, 89j:81125**
Tsvelik, A. M. Exact solution of a model of one-dimensional fermions with $\mathrm{SU}(N) \times \mathrm{SU}(M)$ symmetry. **89f:81217**
Tyutin, I. V. *see* **Ketov, S. V., 89b:81131** *and* **(89d:81001)**
Vafa, Cumrun Conformal theories and punctured surfaces. **89f:81218**
— Toward classification of conformal theories. **89k:81178**
— c-theorem and the topology of 2D QFTs. **89k:81179**
— *see also* **Alvarez-Gaumé, L.; et al., 89b:81171; 89m:81126** *and* **Harvey, Jeffrey A.; et al., 89m:81144**
Valent, G. *see* **Olivier, Dominique, (89g:81058)**
Van Proeyen, A. *see* **Gastmans, R.; et al., 89c:17036; Spindel, Ph.; et al., 89f:81139** *and* **89m:53138**
de Vega, H. J. Finite-size corrections for nested Bethe ansatz models and conformal invariance. **89g:82081**
— *see also* **Destri, C., 89b:81123** *and* **89b:81182**
Verdiev, İ. A. Multiplicative integrals of representations of $\mathrm{PSU}(1, 1)$, $\mathrm{SU}(2)$ and vertex operators. **89g:22029**
Verlinde, Erik Fusion rules and modular transformations in 2D conformal field theory. **89h:81238**
— *see also* **Dijkgraaf, Robbert; et al., 89c:81112**
Verlinde, Herman *see* **Dijkgraaf, Robbert; et al., 89c:81112**
Vink, Jeroen C. Topological charge and fermions in the two-dimensional lattice U(1) model. II. Wilson fermions. **89k:81122**
— *see also* **Smit, Jan, 89f:81145**
Wang, Yong *see* **Gao, Xiao Chun; et al., 89e:81063**
Warner, N. P. *see* **Lerche, W., 89g:81083** *and* **Li, Keke, 89m:81073**
Weitsman, Jonathan *see* **Jaffe, Arthur; et al., 89i:58135**
West, Peter *see* **Neveu, A., 89d:81106**
Wu, Yong Shi^1 Anomalies in $D = 2$ field theories with $(1, 0)$ world-sheet supersymmetry. (*see* **89h:81006**)
Yamada, Yasuhiko *see* **Kawamoto, Noboru; et al., 89i:14020**
Yamagishi, Kengo The KP hierarchy and extended Virasoro algebras. **89f:58074**
Yang, Sung-Kil (*with* Zheng, Hai Bin) Superconformal invariance in the two-dimensional Ashkin-Teller model. **89h:81156**
— *see also* **Ravanini, Francesco, 89c:17028** *and* **89f:81206**
Yankielowicz, Shimon *see* **Bagger, J. A.; et al., 89h:17034**
I'Yi, W. S. (*with* Kim, Kee Yong; Kim, Yong Duk) Ricci-flat and $D = 26$ conditions from the string functional measures. **89h:81242**
Yu, Ming (*with* Zheng, Hai Bin) $N = 2$ superconformal invariance in two-dimensional quantum field theories. **89b:81228**
— The unitary constructions of the $N = 4$ SU(2) extended superconformal algebras. **89a:81157**
— *see also* **Koh, I. G., 89h:81201**
Zaikin, V. N. *see* **Pal′chik, M. Ya., 89f:81124**
Zakrzewski, W. J. *see* **Piette, B.; et al., 89d:58031**
Zamolodchikov, Aleksandr B. Higher-order integrals of motion in two-dimensional models of the field theory with a broken conformal symmetry. **89c:81175**
— Conformal scalar field on the hyperelliptic curve and critical Ashkin-Teller multipoint correlation functions. **89c:81174**
— Conformal symmetry in two-dimensional space: on a recurrent representation of the conformal block. (Russian. English summary) **89d:81113**
— Integrals of motion in scaling 3-state Potts model field theory. **89f:82025**
— *see also* **Apikyan, S. A., 89h:81160** *and* **Polyakov, A. M., 89k:81168**
Zaugg, Ph. *see* **Altschüler, D.; et al., 89c:17014**
Zheltukhin, A. A. Hamiltonian structure of the antisymmetric action of a string. **89e:81176**
— On a para-Grassmann extension of the Neveu-Schwarz-Ramond algebra. (Russian. English summary) **89c:81176**
Zheng, Hai Bin *see* **Yu, Ming, 89b:81228** *and* **Yang, Sung-Kil, 89h:81156**
Zittartz, J. *see* **Klümper, A., 89m:82078**
Zuber, J.-B. *see* **Cappelli, A.; et al., 89b:81178; Di Francesco, P.; et al., 89b:82024** *and* **Bagger, J. A.; et al., 89m:81130**

81E99 None of the above, but in this section

Abad, J. (*with* Rodriguez-Trías, R.) Study of the BRS charge in the Polyakov string by the

Kugo-Ojima method. **89f:81148**

Abdalla, E. (*with* Lima Santos, A.) On the operator solution of the Liouville theory. (Not in MR)

— (*with* Abdalla, M. C. B.; Forger, M.) Exact S-matrices for anomaly-free nonlinear sigma models on symmetric spaces. **89c:81098**

Abdalla, M. C. B. *see* **Abdalla, E.; et al., 89c:81098**

Abe, Mitsuko (*with* Kubota, Hiroshi; Sakai, Norisuke) Loop corrections to the $E_8 \times E_8$ heterotic string effective Lagrangian. **89f:81149**

— (*with* Kubota, Hiroshi; Sakai, Norisuke) Loop corrections to the heterotic string effective Lagrangian. **89h:81157a**

— (*with* Kubota, Hiroshi; Sakai, Norisuke) Addendum: "Loop corrections to the heterotic string effective Lagrangian". **89h:81157b**

— *see also* **Sakai, Norisuke, 89h:81229**

Ader, J. P. (*with* Wallet, J.-C.) Beltrami parametrization and gauged BRST symmetry for the free bosonic string. **89e:81132**

Adler, Stephen L. Quaternionic Gaussian multiple integrals. **89f:81150**

Ahmed, Elsayed Mohamed Interacting superstrings at finite temperature. **89a:81106**

Ajanapon, Pimon Field quantization for pure and mixed states and its classical limit. **89j:81152**

Akulov, V. P. (*with* Sorokin, D. P.; Bandos, I. A.) Particle mechanics in harmonic superspace. **89k:81123**

Aldazabal, Gerardo (*with* Bonini, M.; Iengo, R.; Núñez, Carmen) Intrinsic normal-ordered vertex operators from the multiloop N-tachyon amplitude. **89h:81158**

Alford, M. G. Q-clouds. **89c:81099**

Alvarez, Orlando (*with* Windey, P.) The geometrical meaning of currents in string theory. (*see* **89m:81001**)

Alvarez-Gaumé, L. Geometrical methods in the quantum theory of fields and strings. (*see* **89f:81005**)

— Operator methods in string theory. **89k:81124**

— (*with* Gómez, César; Moore, Gregory W.; Vafa, Cumrun) Strings in the operator formalism. **89b:81171**

— (*with* Nelson, Philip C.; Gómez, César; Sierra, Germán; Vafa, Cumrun) Fermionic strings in the operator formalism. **89m:81126**

Anderson, Greg W. (*with* Moore, Gregory W.) Rationality in conformal field theory. **89j:81153**

Andreev, O. D. (*with* Tseytlin, A. A.) Partition-function representation for the open superstring effective action: cancellation of Möbius infinities and derivative corrections to Born-Infeld Lagrangian. **89k:81125**

— (*with* Tseytlin, A. A.) Generating functional for scattering amplitudes and the effective action in the open superstring theory. **89f:81151**

Anishetty, R. (*with* Basu, Rahul; Sharatchandra, H. S.) A general property of spontaneously broken SUSY theories. **89f:81152**

Antoniadis, I. (*with* Bachas, C.) 4d fermionic superstrings with arbitrary twists. **89d:81085**

Aoyama, Hideaki OSp(1, 1|4) BRST-symmetry for string field with the world-sheet metric. **89a:81107**

— OSp(2, 2|4) for open-string fields. **89h:81159**

Apikyan, S. A. (*with* Zamolodchikov, Aleksandr B.) Conformal blocks, related to conformally invariant Ramond states of a free scalar field. **89h:81160**

Arakawa, Kouichi (*with* Maeno, Masahiro) Bosonization of superstring. **89a:81108**

Arakelyan, T. A. (*with* Savvidi, G. K.) Cocycles of area-preserving diffeomorphisms and anomalies in the theory of relativistic surfaces. **89j:81154**

Aramaki, Seiya (*with* Kase, Hiromi; Morita, Katsusada) Stochastic quantization and chiral anomalies. **89a:81109a**

— (*with* Kase, Hiromi; Morita, Katsusada) Errata: "Stochastic quantization and chiral anomalies". **89a:81109b**

Aratyn, Henrik (*with* Ingermanson, Randall; Niemi, Antti J.) Covariant canonical superstrings. **89b:81172**

— (*with* Ingermanson, Randall; Niemi, Antti J.) OSp(1, 1/2) and Parisi-Sourlas supersymmetry for closed strings. **89a:81110**

— (*with* Ingermanson, Randall; Niemi, Antti J.) Parisi-Sourlas fermions from Ramond superstring. **89a:81111**

— (*with* Ingermanson, Randall; Niemi, Antti J.) Interacting field theory of relativistic point particles. **89c:81100**

— (*with* Ingermanson, Randall) Algebraic approach to the geometry of the (super-) string model. **89f:81153**

— (*with* Ingermanson, Randall) Geometric interpretation of the string vertex operator. **89m:81127**

Aref'eva, I. Ya. (*with* Medvedev, P. B.) Field theory of interacting open superstrings in fermionic ghost representation. **89k:81126**

— (*with* Medvedev, P. B.) Truncation, picture-changing operation and spacetime supersymmetry in Neveu-Schwarz-Ramond string field theory. **89j:81155**

— (*with* Medvedev, P. B.) Anomalies in Witten's field theory of the NSR string. **89m:81128**

Arik, M. (*with* Neyzi, Fahrünisa) Grassmannian σ-models and strings. **89f:81154**

Arimitsu, T. (*with* Umezawa, H.; Yamanaka, Y.) Canonical formalism of dissipative fields in thermo field dynamics. **89g:81064a**

— (*with* Umezawa, H.; Yamanaka, Y.) Erratum: "Canonical formalism of dissipative fields in the thermo field dynamics". **89g:81064b**

— (*with* Guida, M.; Umezawa, H.) Dissipative quantum field theory. Thermo field dynamics. **89f:81155**

— (*with* Umezawa, H.; Yamanaka, Y.; Papastamatiou, N. J.) Spontaneous creation of dissipation in thermo field dynamics and its examples. **89g:81065**

— Kinetic equations within the formalism of nonequilibrium thermo field dynamics. **89i:81102**

Atick, Joseph J. (*with* Rabin, Jeffrey M.; Sen, Ashoke) An ambiguity in fermionic string perturbation theory. **89f:81156**

— (*with* Moore, Gregory W.; Sen, Ashoke) Some global issues in string perturbation theory. **89j:81156**

Awada, M. A. (*with* Chamseddine, A. H.) Superstring and graded Grassmannians. **89f:81157**

Axenides, Minos (*with* Ellis, Stephen D.; Kounnas, Costas) Universal behavior of D-dimensional superstring models. **89c:81101**

de Azcárraga, J. A. (*with* Lukierski, J.; Vindel, P.) Covariant operator formalism for quantized superfields. **89m:81129**

— (*with* Zakrzewski, W. J.) $D = 1$ chiral supersymmetry with a central charge. **89a:81112**

Bachas, C. *see* **Antoniadis, I., 89d:81085**

Bagger, J. A. Strings without string. **89h:81161**

— (*with* Nemeschansky, Dennis; Zuber, J.-B.) Minimal model correlation functions on the torus. **89m:81130**

Bailin, David (*with* Dunbar, David C.; Love, Alex) Yukawa couplings in four-dimensional fermionic string models. (Not in MR)

Bakas, I. Remarks on the quantization of conformal fields. **89e:81133**

Balakrishnan, Janaki (*with* Biswas, S. N.; Goyal, Ashok; Soni, S. K.) Chiral anomaly for parafermions from stochastic quantization. **89h:81162**

Bandos, I. A. *see* **Akulov, V. P.; et al., 89k:81123**

Banks, Thomas (*with* Dixon, Lance J.) Constraints on string vacua with spacetime supersymmetry. **89h:81163**

Bántay, P. Orbifold compactification of heterotic string theories. **89h:81164**

Baranov, M. A. (*with* Shvarts, A. S.) On the multiloop contribution to the string theory. **89e:81134**

Barashenkov, I. V. (*with* Getmanov, B. S.) Multisoliton solutions in the scheme for unified description of integrable relativistic massive fields. Nondegenerate $\mathrm{sl}(2, \mathbf{C})$ case. **89b:81173**

— (*with* Getmanov, B. S.; Kovtun, V. E.) Integrable model with nontrivial interaction between sub- and superluminal solitons. **89f:81158**

Barbashov, B. M. (*with* Chervyakov, A. M.) A geometric method for solving a boundary value problem in the theory of a relativistic string with masses on the ends. **89j:81157**

Bardakci, K. (*with* Rabinovici, E.; Säring, B.) String models with $c < 1$ components. **89f:81159**

Bars, Itzhak First massive level and anomalies in the supermembrane. **89j:81159**

— (*with* Pope, C. N.; Sezgin, E.) Central extensions of area preserving membrane algebras. **89j:81158**

Basu, Rahul *see* **Anishetty, R.; et al., 89f:81152**

Baulieu, Laurent (*with* Bellon, M.; Grimm, Richard) Beltrami parametrization for superstrings. **89e:81135**

— (*with* Bellon, M.) Beltrami parametrization and string theory. **89g:81066**

— (*with* Bergshoeff, Eric; Sezgin, E.) Open BRST algebras, ghost unification and string field theory. **89k:81127**

Becchi, C. On the covariant quantization of the free string: the conformal structure. **89j:81160**

de Beer, Willem Conformal counterterms and boundary conditions for open strings. **89k:81128**

Belavin, A. A. (*with* Knizhnik, V. G.; Morozov, A. Yu.; Perelomov, A. M.) Two- and three-loop amplitudes in bosonic string theory. **89h:81165**

Bellon, M. *see* **Baulieu, Laurent; et al., 89e:81135** *and* **89g:81066**

Bellucci, Stefano (*with* Brooks, Roger; Sonnenschein, Jacob) Supersymmetric chiral bosons. (Not in MR)

Belova, T. I. (*with* Kudryavtsev, A. E.) Quasi-periodic orbits in the scalar classical $\lambda\varphi^4$ field theory. (Not in MR)

Belvedere, L. V. (*with* Marino, E. C.) Superconducting Thirring model. **89g:81067**

— Comments on dynamical mass versus superconducting gap generation. **89j:81161**

Bergshoeff, Eric (*with* Sezgin, E.; Tanii, Yoshiaki) Hamiltonian formulation of the supermembrane. **89c:81102**

— *see also* **Baulieu, Laurent; et al., 89k:81127**

Berkovich, A. (*with* Murthy, Ganpathy N.) Operator dimensions and surface exponents for the nonlinear Schrödinger model at $T = 0$. **89k:81129**

Berkovits, Nathan Supersheet functional integration and the interacting Neveu-Schwarz string. **89f:81160**

Bern, Z. (*with* Shimada, T.) Field redefinitions and Chern-Simons terms in the heterotic string. **89c:81103**

— (*with* Dunbar, David C.) Coupling of open to closed bosonic strings in four dimensions. **89f:81161**

Bernard, Denis On the Wess-Zumino-Witten models on the torus. **89k:81130**

Bershadskiĭ, M. A. Off-shell string amplitudes and singular states in bosonic string theory. **89b:81174**

— (*with* Radul, A.) g-loop amplitudes in bosonic string theory in terms of branch points. **89e:81136**

— Off-shell states in the theory of a bosonic string. **89g:81068**

— (*with* Radul, A.) Fermionic fields on Z_N-curves. **89h:81167**

— The loop measure over supermoduli space. **89d:81086**

Bilal, Adel (*with* Gervais, Jean-Loup) Modular invariance for closed strings at the new critical dimensions. **89a:81113**

— (*with* Gervais, Jean-Loup) Liouville superstring and Ising model in three dimensions. **89e:81137**

— (*with* Gervais, Jean-Loup) Systematic approach to conformal systems with extended Virasoro symmetries. **89j:81162**

Biran, B. (*with* Floratos, E. G. F.; Savvidi, G. K.) The self-dual closed bosonic membranes. **89g:81069**

Birmingham, Danny (*with* Torre, C. G.) Functional integral construction of the BRST invariant string ground state. **89c:81104**

— (*with* Rakowski, Mark; Thompson, George) Topological field theories, Nicolai maps and BRST quantization. **89i:81103**

Biswas, S. N. (*with* Das, Ashok) Thermo field dynamics and parastatistical mechanics. **89b:81175**

— *see also* **Balakrishnan, Janaki; et al., 89h:81162**

Blau, Steven K. (*with* Clements, Minot; Della Pietra, Stephen; Carlip, Steven; Della Pietra, Vincent) The string amplitude on surfaces with boundaries and crosscaps. **89h:81168**

Blencowe, M. P. (*with* Duff, M. J.) Supersingletons. **89j:81163**

Bochicchio, Marco BRST quantization of superstring field theory. **89c:81105**

Bogojević, Aleksandar R. BRST invariance of the measure in string field theory. **89a:81114**

Bogolyubov, N. M. (*with* Izergin, A. G.; Reshetikhin, N. Yu.) Finite-size effects and critical indices of 1D quantum models. **89a:81115**

Bonini, M. (*with* Iengo, R.) Correlation functions and zero modes on higher genus Riemann surfaces. **89h:81169**

— *see also* **Aldazabal, Gerardo; et al., 89h:81158**

Bonora, L. (*with* Martellini, M.; Viallet, C.-M.) Bosonic strings and complex structures. **89e:81138**

Borodulin, V. I. (*with* Zorin, O. L.; Pron′ko, G. P.; Razumov, A. V.; Solov′ev, L. D.) A string model of hadrons and of their interactions. (Russian) (*see* **89d:81001**)

Bowick, M. J. (*with* Rajeev, S. G.) Anomalies as curvature in complex geometry. **89b:81176**

Braden, H. W. On the absence of global anomalies. **89b:81177**

Brekke, Lee (*with* Freund, Peter G. O.; Olson, Mark; Witten, Edward) Non-Archimedean string dynamics. **89k:81131**

Bressloff, P. C. (*with* Taylor, John G.; Restuccia, A.) A functional light-cone gauge construction of a bosonic string compactified on a torus. **89j:81164**

Brooks, Roger (*with* Gates, S. James, Jr.) NSR BRST. **89a:81116**

— *see also* **Gates, S. James, Jr.; et al., 89c:81123** *and* **Bellucci, Stefano; et al.**, (Not in MR)

Brustein, Ram (*with* Nemeschansky, Dennis; Yankielowicz, Shimon) Beta functions and S-matrix in string theory. **89h:81170**

Bukhbinder, I. L. (*with* Fradkin, E. S.) On the mean field equations of motion in the theories with unstable vacuum. **89i:81104**

Bullough, R. K. *see* **Timonen, J.; et al., 89j:81225**

Burgess, C. P. (*with* Morris, T. R.) Open and unoriented strings à la Polyakov. **89d:81087a**

— (*with* Morris, T. R.) Open superstrings à la Polyakov. **89d:81087b**

Cai, Yunhai (*with* He, Anming) Scattering amplitude for Witten's open superstring field theory. **89a:81117**

— *see also* **Polchinski, J., 89i:81125**

Calucci, Giorgio Effective Lagrangian for low-lying states of interacting bosonic strings. **89f:81162**

Campostrini, Massimo (*with* Curci, Giuseppe; Rossi, Paolo[1]) The Gross-Neveu model and the pseudofermion algorithm. **89k:81132**

Cangemi, D. (*with* Makowka, M.; Wanders, G.) The two-dimensional Minkowski space fermion determinant by example. **89h:81171**

Cappelli, A. (*with* Itzykson, C.; Zuber, J.-B.) The A-D-E classification of minimal and $A_1^{(1)}$ conformal invariant theories. **89b:81178**

Carey, A. L. The origin of three-cocycles in quantum field theory. **89c:81106**

Carlip, Steven Sewing closed string amplitudes. **89j:81165**

— Quadratic differentials and closed string vertices. **89j:81166**

— *see also* **Blau, Steven K.; et al., 89h:81168**

Carow-Watamura, Ursula (*with* Watamura, Satoshi) N-string vertex, canonical forms and bosonization. **89e:81139**

— (*with* Ezawa, Z. F.; Watamura, Satoshi) N-loop superstring amplitude from Feynman-like rules; spin structures including Ramond sector, handle operator and g-vacuum. **89k:81133**

Castagnino, Mario *see* **Mazzitelli, F. D.; et al., 89a:81105**

Castellani, L. String field theory as general relativity of loops. **89m:81131**

Cecotti, S. (*with* Ferrara, S.; Girardello, L.) Gravitational supervertices in $n = 1$, 4D superstrings. **89a:81118**

— (*with* Ferrara, S.; Girardello, L.) Hidden noncompact symmetries in string theory. **89k:81134**

Cederwall, M. Interactions in new string theories. **89a:81119**

Chaichian, Masud (*with* Fischer, Jan) Unitarity of the scattering amplitude in higher dimension. **89f:81163**

Chamseddine, A. H. (*with* Derendinger, J.-P.; Quirós, M.) Nonsupersymmetric four-dimensional strings. **89k:81135**

— *see also* **Awada, M. A., 89f:81157**

Chang, Darwin (*with* Kumar, Alok[2]) Uniqueness of 10-dimensional superstring models in the fermionic construction. **89g:81070**

— (*with* Kumar, Alok[2]) Gauge symmetry breaking by Thirring interaction in fermionic construction of superstring models. **89i:81105**

Chapline, George F. Unification of Yang-Mills theory and superstrings. **89c:81108**

Chaudhuri, Shyamoli (*with* Kawai, Hikaru; Tye, S.-H. H.) Path-integral formulation of closed strings. **89d:81088**

Chen, Wei (*with* Guo, Han Ying; Hu, Hong Liang; Yu, Yue) Remarks on superstring field theories. II. **89h:81172**

— (*with* Huang, Chao Shang; Zhao, Wei Dong) Modular invariance of twisted string theories on group manifolds. **89h:81173**

Chen, Yi Xin (*with* Yue, Rui Hong; Zhang, Yao Zhong) Chiral Jacobian and Wess-Zumino-Witten term in the hybrid chiral bag model. **89d:81089**

— *see also* **Liu, Bang Gui, 89f:81193; Hou, Bo Yu; et al., 89k:81146** *and* **Liu, Bang Gui, 89k:81160**

Chen, Yu Zong Riemann-Hilbert problem of the quantum nonlinear Schrödinger model. **89j:81167**

Cheng, Yi Xin Nilpotency of BRST charge in weak background fields. **89k:81136**

Chervyakov, A. M. *see* **Barbashov, B. M., 89j:81157**

Christe, P. On exceptional operator algebras in the conformally invariant SU(2) Wess-Zumino-Witten model. **89b:81179**

Chung, S. G. Thermodynamics of the classical massive-Thirring-sine-Gordon model. **89k:81137**

Clarizia, A. (*with* Pezzella, F.) N-reggeon vertex for the Neveu-Schwarz string. **89c:81109**

Clavelli, L. (*with* Cox, P. H.; Harms, B.) Operatorial Chan-Paton factors. **89e:81140**

— (*with* Cox, P. H.; Harms, B.) Finiteness of lower-dimensional open-string theories. **89f:81164**

Clements, Minot *see* **Blau, Steven K.; et al., 89h:81168**

Cline, James M. The conformal Killing anomaly of the Polyakov string. **89h:81174**

Cognola, Guido (*with* Zerbini, S.) Some physical applications of the heat kernel expansion. **89d:81090**

Cohn, J. D. (*with* Friedan, D.) Super characters and chiral asymmetry in superconformal field theory. **89c:81110**

Coquereaux, Robert Comments about the geometry of nonlinear sigma models. **89f:81165**

Corrigan, E. (*with* Hollowood, T. J.) A bosonic representation of the twisted string emission vertex. **89h:81175**

— (*with* Hollowood, T. J.) Comments on the algebra of straight, twisted and intertwining vertex operators. **89h:81176**

— (*with* Hollowood, T. J.) A string construction of a commutative nonassociative algebra related to the exceptional Jordan algebra. **89i:81106**

Cox, P. H. *see* **Clavelli, L.; et al., 89e:81140** *and* **89f:81164**

Cremmer, E. The vertex function in Witten's formulation of string field theory. **89b:81180**

Cristofano, G. (*with* Maiella, G.; Musto, R.; Nicodemi, F.; Pettorino, R.) Twisted bosonic strings and $O(16) \otimes O(16)$ heterotic model. **89a:81120**

Curci, Giuseppe *see* **Campostrini, Massimo; et al., 89k:81132**

Curtright, Thomas (*with* van Nieuwenhuizen, P.) Supersprings. **89a:81121**

— Are there any superstrings in eleven dimensions? **89b:81181a**

— Erratum: "Are there any superstrings in eleven dimensions?". **89b:81181b**

Cvetič, Mirjam How chiral are type-II superstrings? **89i:81107**

Cvijanović, R. (*with* Ljolje, K.) On the dual symmetrical theory of the complex vector field. (Serbo-Croatian summary) **89i:81108**

D'Adda, A. (*with* Rego Monteiro, M. A.; Sciuto, S.) BRST invariant N-reggeon vertex with bosonized ghosts. **89a:81122**

Dai, Jian Hui The Green-Schwarz mechanism and the two-dimensional chiral Schwinger model. (Chinese. English summary) **89m:81133**

Dai, Yuan Ben (*with* Xiong, Chuan Sheng; Zhao, Wei Dong) Stochastic quantization of covariant field theory of interacting string. **89f:81166**

Dannenberg, Alex Dysfunctional methods and the effective potential. **89d:81091**

Das, Ashok Nilpotency of Q_{BRST} and the vanishing β-function in string theories. **89i:81109**

— *see also* **Biswas, S. N., 89b:81175**

David, François Louis Conformal field theories coupled to 2-D gravity in the conformal gauge. **89k:81138**

— Comment on: "Perturbative stability of smooth strings" [Phys. Rev. Lett. **58** (1987), no. 13, 1300–1303; MR 87m:81174] by R. D. Pisarski. **89h:81178**

Davies, Brian The quantum Gel′fand-Levitan equation and the nonlinear Schrödinger equation. **89f:81167**

Davtyan, O. K. (*with* Karamyan, G. G.) ★ Теории инерциального поля и квантовой корреляции. (Russian) [Inertial field and quantum correlation theories] **89e:81141**

Dayi, Ömer F. Four-photon scattering amplitude in bosonic open string field theory. **89a:81123**

— Operator quantization of the massive superparticle. **89j:81168**

— A note on the BFV-BRST operator quantization method. **89m:81134**

Del Duca, V. (*with* Magnea, L.; van Nieuwenhuizen, P.) Equivalence of the Lagrangian and Hamiltonian BRST charges for the bosonic string in the harmonic and conformal gauges. **89c:81111**

Della Pietra, Stephen *see* **Blau, Steven K.; et al., 89h:81168**

Della Pietra, Vincent *see* **Blau, Steven K.; et al., 89h:81168**

Derendinger, J.-P. *see* **Chamseddine, A. H.; et al., 89k:81135**

Destri, C. (*with* de Vega, H. J.) Integrable quantum field theories and conformal field theories from lattice models in the light-cone approach. **89b:81182**

— (*with* de Vega, H. J.) Jacobian subtleties and the complete path-integral bosonization of the nonabelian Thirring model. **89j:81169**

D'Hoker, Eric Unitarity of the closed bosonic Polyakov string. **89h:81177**

— (*with* Phong, D. H.) Geometry of quantum strings. (*see* **89m:81001**)

— (*with* Phong, D. H.) The geometry of string perturbation theory. **89m:81132**

Dijkgraaf, Robbert (*with* Verlinde, Erik; Verlinde, Herman) $C = 1$ conformal field theories on Riemann surfaces. **89c:81112**

Dine, Michael (*with* Seiberg, Nathan) Microscopic knowledge from macroscopic physics in string theory. **89c:81113**

— (*with* Seiberg, Nathan) Are $(0, 2)$ models string miracles? **89f:81171**

Distler, Jacques Resurrecting $(2, 0)$ compactifications. **89a:81124**

— (*with* Greene, Brian R.; Kirklin, Kelley H.; Miron, Paul) Evaluation of $\overline{27}^3$ Yukawa couplings in a three-generation superstring model. **89c:81114**

— (*with* Greene, Brian R.) Aspects of $(2, 0)$ string compactifications. **89m:81135**

Ditsas, P. (*with* Floratos, E. G. F.) Finite temperature closed bosonic string in a finite volume. **89j:81170**

Di Vecchia, P. Covariant quantization and the three-reggeon vertex. (*see* **89f:81005**)

— (*with* Hornfeck, K.; Yu, Ming) Infinite number of conserved charges and the N-string vertex. **89f:81168**

— (*with* Frau, M.; Lerda, A.; Sciuto, S.) A simple expression for the multiloop amplitude in the bosonic string. **89f:81169**

— (*with* Frau, M.; Lerda, A.; Sciuto, S.) N-string vertex and loop calculation in the bosonic string. **89f:81170**

— (*with* Hornfeck, K.; Frau, M.; Lerda, A.; Sciuto, S.) BRST invariant operator formalism for the superstring. **89e:81142**

Dixon, Lance J. (*with* Ginsparg, P.; Harvey, Jeffrey A.) $\hat{c} = 1$ superconformal field theory. **89m:81136**

— *see also* **Banks, Thomas, 89h:81163**

Dobrev, V. K. (*with* Ganchev, A. Ch.) Modular invariance for the $N = 2$ twisted superconformal algebra. **89b:81183**

Dong, Zhi Hua (*with* Liu, Jian Heng; Shi, Wan Zhong; Ying, Peng Cheng) Pattern of E_6 symmetry breaking in the superstring theory. **89d:81092**

Dresse, Alain (*with* Fisch, Jean; Henneaux, M.; Schomblond, Christiane) Consistent elimination of redundant second-class constraints. **89j:81171**

Droz-Vincent, Philippe New quantizations of the free Nambu string. **89c:81115**

Duff, M. J. (*with* Inami, T.; Pope, C. N.; Sezgin, E.; Stelle, K. S.) Semiclassical quantization of the supermembrane. **89h:81179**

— *see also* **Blencowe, M. P., 89j:81163**

Dunbar, David C. *see* **Bern, Z., 89f:81161** *and* **Bailin, David; et al.**, (Not in MR)

Duncan, M. J. (*with* Segrè, G.) A simplified model for superstring compactification. **89a:81125**

Eastaugh, A. (*with* McCarthy, J. G.) A study of the vertex in Witten's string field theory. **89b:81184**

Efimov, G. V. Nonlocal quantum field theory and particle physics. **89h:81180**

Eguchi, Tohru Conformal and current algebras on a general Riemann surface. **89f:81172**
– (*with* Taormina, Anne) Character formulas for the $N = 4$ superconformal algebra. **89h:81181**
El Hassouni, A. (*with* Lhallabi, T.; Oudrhiri-Safiani, E. G.; Saidi, E. H.) $N = 2$ SQED model in harmonic superspace. **89c:81116**
Elizalde, E. Casimir effects in tori and pairs of plates. **89i:81110**
Ellis, Jonathan Richard (*with* Jetzer, Philippe; Mizrachi, Leah) One-loop string corrections to the effective field theory. **89f:81173**
Ellis, Stephen D. *see* **Axenides, Minos; et al., 89c:81101**
Embacher, F. Free bosonic string field theory without supplementary fields. **89j:81172**
Englert, F. Hidden superstrings. **89h:81182**
Ensign, Philip (*with* Mahanthappa, K. T.) Adler-Bardeen theorem in supersymmetric theories. **89j:81173**
Eskin, Alex Conformal transformations and string field redefinitions. **89g:81071**
Esteban, M. J. Variational approach to the existence of skyrmions. **89k:81139**
– Existence of symmetric solutions for the Skyrme's problem. **89c:81117**
Ezawa, Z. F. (*with* Nakamura, Shigeru) Picture-changing operation and space-time supersymmetry in superstring field theory. **89a:81126**
– (*with* Nakamura, Shigeru; Tezuka, A.) Vertex operator construction of the SO(9, 1) Majorana-Weyl spinors in the Neveu-Schwarz-Ramond model. **89a:81127**
– (*with* Nakamura, Shigeru; Tezuka, A.) Space-time fermions and superghosts from the bosonic string: generation of $OSp(9,1|2) \times OSp(3,3|6)$ affine superalgebra. **89b:81185**
– *see also* **Carow-Watamura, Ursula; et al., 89k:81133**
Faĭnberg, V. Ya. *see* **Maliev, I. N.; et al., (89d:81001)**
Falck, N. K. Fermionic Jacobian and gauge invariance in the chiral Schwinger model. **89f:81174**
Fan, Hai Tao (*with* Pu, Fu Ke; Zhao, Bao Heng) Bethe ansatz equations for the multicomponent nonlinear Schrödinger model with supermatrices. **89j:81174**
Fateev, V. A. (*with* Lykyanov, S. L.) The models of two-dimensional conformal quantum field theory with Z_n symmetry. **89b:81186**
Ferrara, S. The point-field limit of four-dimensional superstrings. (*see* **89a:81005**)
– Supertheories. **89m:81137**
– (*with* Kounnas, Costas; Porrati, Massimo) Superstring solutions with spontaneously broken four-dimensional symmetries. **89h:81183**
– (*with* Kounnas, Costas; Porrati, Massimo) $N = 1$ superstrings with spontaneously broken symmetries. **89h:81184**
– *see also* **Cecotti, S.; et al., 89a:81118** *and* **89k:81134**
Filippov, A. T. ★ Введение в теорию суперструн. (Russian) [Introduction to superstring theory] **89j:81175**
Filk, T. (*with* Römer, H.) Topological weights and combinatorical unitarity in first and second quantization. **89g:81072**
Fisch, Jean (*with* Henneaux, M.) Representations of the ghost canonical commutation relations and nilpotency of the BRST charge in string theory. **89f:81175**
– *see also* **Dresse, Alain; et al., 89j:81171**
Fischer, Jan *see* **Chaichian, Masud, 89f:81163**
Fisk, Mark (*with* Srednicki, Mark) Magnetic string fields. **89m:81138**
FitzGerald, P. Constrained dynamics and the local symmetries of the massive superparticle. **89j:81176**
Floratos, E. G. F. *see* **Biran, B.; et al., 89g:81069** *and* **Ditsas, P., 89j:81170**
Floreanini, Roberto Representing functionally the two-dimensional conformal group. **89d:81093**
– (*with* Vinet, Luc) Functional representation of the superconformal group in two dimensions. **89j:81177**
Foakes, A. P. (*with* Mohammedi, N.; Ross, Douglas A.) Three-loop β-functions for the superstring and heterotic string. **89j:81178**
Font, A. (*with* Ibáñez, L. E.; Nilles, H. P.; Quevedo, F.) Degenerate orbifolds. **89j:81179a**
– (*with* Ibáñez, L. E.; Nilles, H. P.; Quevedo, F.) Erratum: "Degenerate orbifolds". **89j:81179b**
– (*with* Ibáñez, L. E.; Nilles, H. P.; Quevedo, F.) Yukawa couplings in degenerate orbifolds: towards a realistic $SU(3) \times SU(2) \times U(1)$ superstring. **89m:81139a**
– (*with* Ibáñez, L. E.; Nilles, H. P.; Quevedo, F.) Errata: "Yukawa couplings in degenerate orbifolds: towards a realistic $SU(3) \times SU(2) \times U(1)$ superstring". **89m:81139b**
Foot, R. (*with* Joshi, G. C.) String theories and the Jordan algebras. **89b:81187**
– (*with* Joshi, G. C.) A connection between the octonions and the superstring. **89m:81140**
Forger, M. *see* **Abdalla, E.; et al., 89c:81098**
Fradkin, E. S. (*with* Pal′chik, M. Ya.) Conformal invariance in two-dimensional field theory. **89e:81143**
– *see also* **Bukhbinder, I. L., 89i:81104**
Fradkin, Eduardo (*with* Naón, Carlos M.; Schaposnik, Fidel A.) Constrained Fermi systems and Virasoro algebras. **89c:81118**
Frampton, Paul H. (*with* Okada, Yasuhiro; Ubriaco, Marcelo R.) On adelic formulas for the p-adic string. **89j:81180**
– (*with* Okada, Yasuhiro) Effective scalar field theory of p-adic string. **89k:81140**
– (*with* Okada, Yasuhiro) p-adic string N-point function. **89h:81185**
Frau, M. *see* **Di Vecchia, P.; et al., 89e:81142; 89f:81169** *and* **89f:81170**
Fré, P. (*with* Gliozzi, F.) Four-dimensional superstrings live on group manifolds. **89h:81186**
Freedman, Daniel Z. (*with* Ginsparg, P.; Sommerfield, C. M.; Warner, N. P.) String-ghost interactions and the trace anomaly. **89a:81128**
– (*with* Giddings, Steven B.; Shapiro, Joel A.; Thorn, Charles B.) The nonplanar one-loop amplitude in Witten's string field theory. **89c:81119**
Freeman, M. D. (*with* West, Peter) Ghost vertices for the bosonic string using the group-theoretic approach to string theory. **89h:81187a**
Freund, Peter G. O. (*with* Olson, Mark) Non-Archimedean strings. **89d:81094**
– (*with* Witten, Edward) Adelic string amplitudes. **89d:81095**
– *see also* **Brekke, Lee; et al., 89k:81131**
Friedan, D. A new formulation of string theory. (*see* **89f:81005**)
– *see also* **Cohn, J. D., 89c:81110**
Frolov, S. A. (*with* Slavnov, A. A.) Physical subspace norm in Hamiltonian BRST-quantization. **89m:81141**
Fuchs, Jürgen Conformal embeddings and hidden symmetries of free fermion theories. **89e:81144**
Fujii, Kazuyuki (*with* So, Hiroto; Suwa, Misako) Extended Skyrme models in even dimensions and higher-dimensional solitons. II. Wess-Zumino terms in two and higher dimensions. **89m:81142**
Fujikawa, Kazuo (*with* Kubo, Jisuke) On the quantization of membrane theories. **89g:81073**
– (*with* Inagaki, Takeshi; Suzuki, Hiroshi) BRS anomaly and the Weyl freedom in string theory. **89h:81188**
– (*with* Lindström, U.; Nielsen, N. K.; Roček, M.; van Nieuwenhuizen, P.) Regularized BRST-coordinate-invariant measure. **89f:81176**
Fukuda, Reijiro (*with* Higurashi, H.) Equilibrium limit of the stochastic quantization in Minkowski space. **89j:81181**
Fukuyama, Takeshi (*with* Kamimura, Kiyoshi) Anomalies in two-dimensional gravity. **89c:81120**
Gaigg, P. (*with* Kreuzer, Maximilian) Symmetries of axial gauge pole prescriptions. **89c:81121**
Gal′perin, A. S. (*with* Ivanov, Evgeniĭ Alekseevich²; Ogievetskiĭ, V. I.; Sokatchev, E. S.) Harmonic superspace and extended supersymmetries. (Russian) (*see* **89d:81001**)
– (*with* Ivanov, Evgeniĭ Alekseevich²; Ogievetskiĭ, V. I.; Sokatchev, E. S.) Harmonic superspace. Results and perspectives. (Russian) (*see* **89g:81003**)
Gambini, Rodolfo (*with* Trias, Antoni) Nonparametric strings. **89h:81189**
Gamboa, Jorge (*with* Zanelli, Jorge) Ground-state representation and the square root of the bosonic string. **89h:81190**
– (*with* Zanelli, Jorge) Supersymmetric quantum mechanics of fermions minimally coupled to gauge fields. **89c:81122**
– (*with* Zanelli, Jorge; Ruiz-Altaba, M.) Supersymmetrization of scalar field theories. **89g:81074**
– (*with* Ruiz-Altaba, M.) Functional diffusion equation for membranes. **89j:81182**
Ganchev, A. Ch. *see* **Dobrev, V. K., 89b:81183**
Gangopadhyay, Debashis (*with* Singh, Lambodar Prasad) Fujikawa-type formulation of gauged BRST symmetry for the free bosonic string. **89j:81183**
Ganoulis, N. (*with* Lazarides, G.) Generalized index theorem for string superconductivity in realistic models. **89k:81141**
Gao, Hong Bo (*with* Sun, Yi) The local product structure of the internal space and some properties of the heterotic string action. (Chinese. English summary) **89h:81191**
– Do quantum strings need a quasiconformal instanton? **89j:81184**
Gao, Yi Hong (*with* Li, Miao) Classification of world sheet instantons and the path integral measure in string theories. **89a:81129**
Garreis, Reiner (*with* Louis, Jan; Ovrut, Burt A.) Topology and heterotic, gravitational, Lorentz and super-Weyl anomalies. **89f:81177**
– *see also* **Louis, Jan; et al., 89c:81144**
Gates, S. James, Jr. Unidexterous superconformal theories. **89e:81145**
– (*with* Brooks, Roger; Muhammad, Fuad) Unidexterous superspace: the flax of (super)strings. **89c:81123**
– (*with* Siegel, Warren) Leftons, rightons, nonlinear σ-models, and superstrings. **89k:81142**
– *see also* **Brooks, Roger, 89a:81116**
Ge, Mo Lin *see* **Lü, Jing Fa, 89f:81194**
Geicke, J. Solitary waves in the $\varphi^4 + \lambda\varphi^3$ model with and without dissipation. **89e:81146**
Gepner, Doron New conformal field theories associated with Lie algebras and their partition functions. **89b:81188**
– Space-time supersymmetry in compactified string theory and superconformal models. **89b:81189**
Gervais, Jean-Loup (*with* Sakita, B.) Dual-resonance models. **89i:81111**
– p-adic analyticity and Virasoro algebras for conformal theories in more than two dimensions. **89d:81096**
– *see also* **Bilal, Adel, 89a:81113; 89e:81137** *and* **89j:81162**
Getmanov, B. S. *see* **Barashenkov, I. V., 89b:81173** *and* **89f:81158**
Giddings, Steven B. Conformal techniques in string theory and string field theory. **89k:81143**
– *see also* **Freedman, Daniel Z.; et al., 89c:81119**
Gilbert, Gerald (*with* Johnston, Desmond) Equivalence of the Kallosh and Carlip quantizations of the Green-Schwarz action for the heterotic string. **89d:81097**
Ginsparg, P. Curiosities at $c = 1$. **89e:81147**
– *see also* **Freedman, Daniel Z.; et al., 89a:81128** *and* **Dixon, Lance J.; et al., 89m:81136**
Girardello, L. *see* **Cecotti, S.; et al., 89a:81118** *and* **89k:81134**
Girardi, G. (*with* Grimm, Richard) Chern-Simons forms and four-dimensional $N = 1$ superspace geometry. **89c:81124**
Giveon, A. Constraints on asymmetric orbifolds. **89b:81190**
Gliozzi, F. Multiloop modular invariance and the cosmological constant. **89b:81191**
– *see also* **Fré, P., 89h:81186**
Goddard, Peter (*with* Schwimmer, Adam) Unitary construction of extended conformal algebras. **89g:81075**
– (*with* Schwimmer, Adam) Factoring out free fermions and superconformal algebras. **89j:81185**
Gómez, César *see* **Alvarez-Gaumé, L.; et al., 89b:81171** *and* **89m:81126**
Gomis, J. (*with* Roca, J.) The propagator of spinless and spinning nonrelativistic particles from the BRST-invariant path integral. **89j:81186**
González, J. String effective action in the inverse-dimensional expansion. **89c:81125**
Gorskiĭ, A. S. Berry's phase and the chiral anomaly. **89m:81143**
Goulian, Mark D. (*with* Hernández, Oscar F.) Constraints on representations of conformal field theories. **89j:81187**
Govaerts, Jan String and superstring theories: an introduction. **89k:81144**
Goyal, Ashok *see* **Balakrishnan, Janaki; et al., 89h:81162**
Green, Michael B. Developments in superstring field theory. **89e:81148**
– Superstrings. (Bulgarian) **89e:81149**
– (*with* Seiberg, Nathan) Contact interactions in superstring theory. **89g:81076**
Greene, Brian R. *see* **Distler, Jacques; et al., 89c:81114** *and* **89m:81135**
Greensite, J. Contact interactions of closed superstrings. **89c:81126**

Grimm, Richard *see* **Girardi, G., 89c:81124** *and* **Baulieu, Laurent; et al., 89e:81135**
Grisaru, Marcus T. Sigma-model beta-functions. **89f:81178**
— (*with* Xu, Rui-Ming) Quantum supergravities in two dimensions. **89f:81179**
— (*with* Nishino, Hitoshi; Zanon, D.) β-functions for the Green-Schwarz superstring. **89k:81145**
de Groot, M. (*with* Mansfield, P.) The relationship between the canonical super-Virasoro and functional super-Weyl anomalies. **89c:81127**
Gross, David J. (*with* Periwal, Vipul) Heterotic string light-cone field theory. **89b:81192**
— (*with* Mende, Paul F.) String theory beyond the Planck scale. **89f:81180**
— High-energy symmetries of string theory. **89a:81130**
Grundland, A. M. (*with* Tuszyński, J. A.) Symmetry breaking and bifurcating solutions in the classical complex φ^6 field theory. **89e:81150**
Guadagnini, E. (*with* Martellini, M.; Mintchev, M.) Vanishing of the cosmological constant for heterotic-type lower-dimensional superstrings. **89h:81192**
Guida, M. *see* **Arimitsu, T.; et al., 89f:81155**
Guo, Han Ying *see* **Chen, Wei; et al., 89h:81172**
Hamada, K.-J. Automorphic functions on super Riemann surfaces and fermionic string. **89f:81181**
Harms, B. *see* **Clavelli, L.; et al., 89e:81140** *and* **89f:81164**
Harvey, Jeffrey A. Minimal conformal models and string compactification. **89i:81112**
— (*with* Moore, Gregory W.; Vafa, Cumrun) Quasicrystalline compactification. **89m:81144**
— *see also* **Dixon, Lance J.; et al., 89m:81136**
Hata, Hiroyuki (*with* Itoh, Katsumi; Kugo, Taichiro; Kunitomo, Hiroshi; Ogawa, Kaku) BRS invariant vertex of Neveu-Schwarz-Ramond superstring. **89c:81128**
Hayashi, Masahito (*with* Kawamoto, Noboru; Kuramoto, Tetsuji; Shigemoto, Kazuyasu) Modular invariance and the gravitational anomaly in type II superstring theory. **89a:81131**
— (*with* Kawamoto, Noboru; Kuramoto, Tetsuji; Shigemoto, Kazuyasu) Gravitational anomaly cancellation in type I superstring theory. **89b:81193**
He, Anming *see* **Cai, Yunhai, 89a:81117**
Henneaux, M. *see* **Fisch, Jean, 89f:81175** *and* **Dresse, Alain; et al., 89j:81171**
Hernández, Oscar F. *see* **Goulian, Mark D., 89j:81187**
Higurashi, H. *see* **Fukuda, Reijiro, 89j:81181**
Hloušek, Zvonimir New formulas for the arbitrary four-point amplitudes in open-string theory. **89h:81193**
Ho, Choon Lin (*with* Hosotani, Yutaka) Field theory of geometric membranes. **89c:81129**
Hollowood, T. J. *see* **Corrigan, E., 89h:81175; 89h:81176** *and* **89i:81106**
Holman, Richard (*with* Kephart, T. W.) Modular invariance and anomalies in lower-dimensional superstring theories. **89e:81151**
Hong, Deog Ki The conformal factor and $\operatorname{Diff} S^1/S^1$. **89i:81113**
Hornfeck, K. *see* **Di Vecchia, P.; et al., 89e:81142** *and* **89f:81168**
Horowitz, Gary T. String theory without a background spacetime geometry. (*see* **89m:81001**)
— (*with* Martin, Stephen P.) Conformal field theory and the symmetries of string field theory. **89b:81194**
Hosotani, Yutaka *see* **Ho, Choon Lin, 89c:81129**
Hou, Bo Yu (*with* Chen, Yi Xin; Zhang, Yao Zhong) Cohomological analysis in Skyrme model and boundary effect of chiral bag model. **89k:81146**
Howe, P. S. (*with* Papadopoulos, G.) Anomalies in two-dimensional supersymmetric nonlinear σ models. **89a:81132**
Hu, Gang Creation and annihilation operators for unstable particles. (Chinese) (Not in MR)
Hu, Hong Liang *see* **Chen, Wei; et al., 89h:81172**
Huang, Chao Shang (*with* Zhao, Wei Dong; Zhao, Zhi Yong) Spinning string models on group manifolds with twisted boundary conditions. **89f:81182**
— *see also* **Chen, Wei; et al., 89h:81173**
Huerta, L. (*with* Ruiz-Altaba, M.) Boson-fermion transmutation in $(2+1)$ dimensions. **89k:81147**
Hull, C. M. Covariant quantization of chiral bosons and anomaly cancellation. **89k:81148**
Huq, M. Manifestly fermionic gauge covariant quantization of a massive superparticle. **89k:81149**
— On covariant quantization of massive superparticle. **89m:81145**
Hurst, C. A. *see* **Lohe, M. A., 89c:81143**
Hwang, Stephen (*with* Marnelius, R.) Interacting bosonic strings in subcritical dimensions. **89c:81130**
Ibáñez, L. E. (*with* Mas, Javier; Nilles, H. P.; Quevedo, F.) Heterotic strings in symmetric and asymmetric orbifold backgrounds. **89f:81183**
— *see also* **Font, A.; et al., 89j:81179a; 89j:81179b; 89m:81139a** *and* **89m:81139b**
Ichinose, Shoichi Background-field approach to extended string theory. **89h:81194**
Iengo, R. (*with* Ivanov, B. V.) Fermionization of chiral string determinants in factorizable metrics. **89m:81146**
— *see also* **Aldazabal, Gerardo; et al., 89h:81158** *and* **Bonini, M., 89h:81169**
Il′ina, I. L. *see* **Vladimirskiĭ, V. V.; et al., (89d:81001)**
Inagaki, Takeshi *see* **Fujikawa, Kazuo; et al., 89h:81188**
Inami, T. (*with* Kanno, Hiroaki; Kubota, Takahiro) Hexagon gauge anomaly of the type-I superstring in the path integral method. **89a:81133**
— *see also* **Duff, M. J.; et al., 89h:81179**
Inamoto, Tadashi Becchi-Rouet-Stora-Tyutin Hamiltonian method and the membrane model. **89c:81131**
Ingermanson, Randall *see* **Aratyn, Henrik; et al., 89a:81110; 89a:81111; 89b:81172; 89c:81100; 89f:81153** *and* **89m:81127**
Inoue, Kazuhiko (*with* Odaka, Kazuhiko; Omote, Minoru) Infinite number of conserved quantities and extended conformal algebra in the Thirring model. **89b:81195**
Inoue, Kenzo[2] (*with* Sakamoto, Makoto; Takano, Hiroshi) Nonabelian orbifolds. **89a:81134**
— (*with* Nima, Shuji; Takano, Hiroshi) Zero mode and modular invariance in string on nonabelian orbifold. **89j:81188**
Isham, C. J. Group theory and the canonical quantization of strings on tori. **89j:81189**
Ishibashi, N. *see* **Kitazawa, Y.; et al., 89m:81149**
Isler, K. (*with* Schmid, Christoph H.; Trugenberger, C. A.) Kinetic normal ordering and the $1+1$ dimensional U(1). **89c:81132**
Ito, Katsushi Path-integral formulation of the fermionic strings on the light-cone slice. **89g:81077**
Itoh, Katsumi (*with* Ogawa, Kaku; Suehiro, Kazuhiko) BRS invariance of the Witten type vertex. **89d:81099**
— (*with* Kato, Mitsuhiro; Kunitomo, Hiroshi; Sakamoto, Makoto) Vertex construction and zero modes of twisted strings on orbifolds. **89h:81195**
— (*with* Kunitomo, Hiroshi) Covariant string field theory on Z_2-orbifold. **89i:81114**
— *see also* **Hata, Hiroyuki; et al., 89c:81128**
Itoi, Chigaku (*with* Kubota, Hiroshi) BRST quantization of the string model with extrinsic curvature. **89e:81152**
Itzykson, C. *see* **Cappelli, A.; et al., 89b:81178**
Ivanov, B. V. *see* **Iengo, R., 89m:81146**
Ivanov, Evgeniĭ Alekseevich[2] (*with* Krivonos, S. O.; Leviant, V. M.) A new class of superconformal sigma models with the Wess-Zumino action. **89h:81196**
— *see also* **Gal′perin, A. S.; et al., (89d:81001)** *and* **(89g:81003)**
Iwazaki, A. Bosonization of conformal ghosts in Witten's string theory. (Italian summary) **89h:81197**
Izergin, A. G. *see* **Bogolyubov, N. M.; et al., 89a:81115**
Jack, I. (*with* Jones, D. R. T.) Dilaton dependence of the two-loop effective action. **89a:81135**
— (*with* Jones, D. R. T.; Lawrence, A. M.) Ghost freedom and string actions. **89f:81184**
Jaskólski, Z. The integration of G-invariant functions and the geometry of the Faddeev-Popov procedure. **89b:81196**
— On the Gribov ambiguity in the Polyakov string. **89g:81078**
Jayaraman, T. (*with* Narain, K. S.) Gluing procedures for holomorphic conformal field theories on Riemann surfaces. **89e:81153**
Jetzer, Philippe *see* **Ellis, Jonathan Richard; et al., 89f:81173**
Jevicki, Antal Construction of interacting string and superstring field theory. **89h:81198**
Jiménez Lorenzo, Fernando (*with* Sierra, Germán) Quenched string field theory. **89j:81190**
Jing, Si Cong *see* **Ruan, Tu Nan, 89i:81127**
Johnston, Desmond A local fermionic ghost number anomaly for the Kallosh quantization of the heterotic string? **89i:81115**
— *see also* **Gilbert, Gerald, 89d:81097**
Jones, D. R. T. *see* **Jack, I., 89a:81135** *and* **89f:81184**
Joshi, G. C. *see* **Foot, R., 89b:81187; Nash, C. G., 89h:81219** *and* **Foot, R., 89m:81140**
Jun, Jin Woo (*with* Kim, Jae Kwan) Evaluation of the conformal anomaly of Polyakov's string theory by the stochastic quantization method. **89f:81185**
Kaku, Michio Why are there two BRST string field theories? **89c:81133**
(Kalitzin, S.) *see* **Green, Michael B., 89e:81149**
Kallosh, R. (*with* Morozov, A. Yu.) Green-Schwarz action and loop calculations for superstring. **89j:81191**
— (*with* Morozov, A. Yu.) On the vanishing of multiloop contributions to the 0-, 1-, 2-, 3-point functions in the Green-Schwarz formalism for heterotic strings. **89f:81186**
— (*with* Rakhmanov, M. A.) Covariant quantization of the Green-Schwarz superstring. **89f:81187**
— (*with* Rakhmanov, M. A.) Gauge algebra and quantization of type II superstrings. **89i:81116**
— (*with* Troost, W.; Van Proeyen, A.) Quantization of superparticle and superstring with Siegel's modification. **89m:81147**
Kalyana Rama, S. *see* **Louis, Jan; et al., 89m:81152**
Kamata, Masaru *see* **Osanai, A.; et al., 89g:81088**
Kamimura, Kiyoshi (*with* Tatewaki, Machiko) Modified superstring in the light-cone gauge. **89d:81100**
— *see also* **Fukuyama, Takeshi, 89c:81120**
Kanie, Yukihiro *see* **Tsuchiya, Akihiro, 89m:81166**
Kanno, Hiroaki *see* **Inami, T.; et al., 89a:81133**
Karabali, Dimitra (*with* Schnitzer, Howard J.) Gauge symmetry enlargement and accidental massless spectrum of string models on group manifolds. **89f:81188**
Karamyan, G. G. *see* **Davtyan, O. K., 89e:81141**
Karanikas, A. I. (*with* Ktorides, C. N.) Nonlocal bosonization in two dimensions and an effective string field theory with phase transition. **89a:81136**
Kase, Hiromi *see* **Aramaki, Seiya; et al., 89a:81109a** *and* **89a:81109b**
Kastor, David (*with* Martinec, Emil; Qiu, Zongan) Current algebra and conformal discrete series. **89b:81197**
Kato, Akishi Classification of modular invariant partition functions in two dimensions. **89d:81101**
— *see also* **Kitazawa, Y.; et al., 89m:81149**
Kato, Mitsuhiro *see* **Itoh, Katsumi; et al., 89h:81195**
Kawai, Hikaru (*with* Lewellen, D. C.; Schwartz, J. A.; Tye, S.-H. H.) The spin structure construction of string models and multiloop modular invariance. **89h:81199**
— *see also* **Chaudhuri, Shyamoli; et al., 89d:81088**
Kawamoto, Noboru *see* **Hayashi, Masahito; et al., 89a:81131** *and* **89b:81193**
Kazama, Yoichi Introduction to twisted conformal fields. **89g:81079**
Kenmoku, M. (*with* Okamoto, Yuko; Shigemoto, Kazuyasu) Möbius and super-Möbius gauge fixing for the closed string amplitudes on the disk. **89j:81192**
Kent, Adrian (*with* Riggs, Harold) Determinant formulae for the $N = 4$ superconformal algebras. **89g:81080**
Kephart, T. W. *see* **Holman, Richard, 89e:81151**
Kersten, P. H. M. Nonlocal symmetries and the linearization of the massless Thirring and the Federbush models. **89c:81134**
Ketov, S. V. (*with* Lokhvitskiĭ, B. B.) $N = 4$ irreducible scalar superfields. **89m:81148**
Khlopov, M. Yu. *see* **Kogan, Ya. I., 89c:81135**
Kikkawa, Keiji Covariant field theory of the interacting string. (*see* **89f:81005**)
Kiklevich, E. A. *see* **Vladimirskiĭ, V. V.; et al., (89d:81001)**
Kim, Jae Kwan *see* **Jun, Jin Woo, 89f:81185**
Kim, Kee Yong *see* **l'Yi, W. S.; et al., 89h:81242**
Kim, Yong Duk *see* **l'Yi, W. S.; et al., 89h:81242**
Kiritsis, Elias B. A bosonic representation of the Ising model. **89d:81102**

— Proof of the completeness of the classification of rational conformal theories with $c = 1$. **89k:81150**

Kirklin, Kelley H. *see* **Distler, Jacques; et al., 89c:81114**

Kirschner, R. Parisi-Sourlas type symmetry and Hamiltonian BRST formalism. **89f:81189**

Kitazawa, Y. Explicit parametrizations of degenerate surfaces from the KP equation and closed bosonic string amplitudes. **89e:81154**

— (*with* Ishibashi, N.; Kato, Akishi; Kobayashi, Ken-ichiro; Matsuo, Yutaka; Odake, S.) Operator product expansion coefficients in $N = 1$ superconformal theory and slightly relevant perturbation. **89m:81149**

Kitazoe, T. (*with* Nishimura, Haruhiko; Tabuse, M.) Orbifold compactifications of $D < 10$ dimensional fermionic heterotic string. **89h:81200**

Klebanov, Igor (*with* Susskind, Leonard) Continuum strings from discrete field theories. **89k:81151**

Kleppe, Gary (*with* Ramond, P.; Viswanathan, R. Raju) A reparametrization-invariant approach to string field theory. **89k:81152**

Knizhnik, V. G. Analytic fields on Riemannian surfaces. **89b:81198**

— Analytic fields on Riemann surfaces. II. **89b:81199**

— An explicit equation for a two-loop measure in a heterotic-string model. **89f:81190**

— Explicit expression for the two-loop measure in the heterotic string theory. **89f:81191**

— *see also* **Belavin, A. A.; et al., 89h:81165**

Kobayashi, Ken-ichiro (*with* Sakamoto, Makoto) Orbifold-compactified models in torus-compactified string theories. **89k:81153**

— *see also* **Kitazawa, Y.; et al., 89m:81149**

Kobayashi, Masanori (*with* Takahashi, Yasushi) The Rarita-Schwinger paradoxes. **89b:81200**

Kogan, Ya. I. (*with* Khlopov, M. Yu.) Homotopically stable particles in the theory of superstrings. **89c:81135**

Koh, I. G. (*with* Yu, Ming) Nonabelian bosonization in higher genus Riemann surfaces. **89h:81201**

Konisi, Gaku (*with* Saito, Takesi; Shigemoto, Kazuyasu; Takahasi, Wataru) Covariant Lagrangian formulation of interacting heterotic strings. **89j:81193**

Konno, Hitoshi A covariant multiloop planar operator in bosonic string theory. **89i:81117**

Kostelecký, V. Alan (*with* Lechtenfeld, Olaf; Lerche, W.; Samuel, Stuart; Watamura, Satoshi) Conformal techniques, bosonization and tree-level string amplitudes. **89b:81201**

— (*with* Lechtenfeld, Olaf; Samuel, Stuart) Covariant string amplitudes on exotic topologies to one loop. **89c:81136**

— (*with* Samuel, Stuart) The static tachyon potential in the open bosonic string theory. **89d:81103**

Kounnas, Costas Strings and superstrings in less than ten dimensions. **89e:81155**

— (*with* Quirós, M.; Zwirner, Fabio) A custodial symmetry for the cosmological constant in the effective theories of four-dimensional superstrings. **89f:81192**

— (*with* Porrati, Massimo) Spontaneous supersymmetry breaking in string theory. **89j:81194**

— *see also* **Axenides, Minos; et al., 89c:81101; Ferrara, S.; et al., 89h:81183** *and* **89h:81184**

Kovtun, V. E. *see* **Barashenkov, I. V.; et al., 89f:81158**

Krasnikov, N. V. (*with* Rozhanskiĭ, L. V.) Structure of the low-energy superpotential in superstring theories. **89e:81156**

Kreuzer, Maximilian *see* **Gaigg, P., 89c:81121**

Krive, I. V. (*with* Pastur, L. A.; Rozhavskiĭ, A. S.) Restoration of chiral symmetry in a stochastic external field. **89c:81137**

— (*with* Latinskiĭ, S. M.) Vacuum polarization by a nonuniform external field in a medium. **89k:81154**

Krivonos, S. O. *see* **Ivanov, Evgeniĭ Alekseevich^2; et al., 89h:81196**

Ktorides, C. N. *see* **Karanikas, A. I., 89a:81136**

Kubo, Jisuke *see* **Fujikawa, Kazuo, 89g:81073**

Kubota, Hiroshi *see* **Itoi, Chigaku, 89e:81152; Abe, Mitsuko; et al., 89f:81149; 89h:81157a** *and* **89h:81157b**

Kubota, Takahiro (*with* Veneziano, G.) Off-shell effective actions in string theory. **89e:81157**

— *see also* **Inami, T.; et al., 89a:81133**

Kudryavtsev, A. E. *see* **Belova, T. I.**, (Not in MR)

Kugo, Taichiro (*with* Kunitomo, Hiroshi; Suehiro, Kazuhiko) BRS invariance of string vertex on general ghost vacuum. **89c:81138**

— Lorentz transformation in the light-cone gauge string field theory. **89h:81202**

— Gauge string field theory. **89m:81150**

— *see also* **Hata, Hiroyuki; et al., 89c:81128**

Kumar, Alok^2 *see* **Chang, Darwin, 89g:81070** *and* **89i:81105**

Kunitomo, Hiroshi *see* **Hata, Hiroyuki; et al., 89c:81128; Kugo, Taichiro; et al., 89c:81138; Itoh, Katsumi; et al., 89h:81195** *and* **89i:81114**

Kupsch, J. Measures for fermionic integration. **89b:81202**

Kuramoto, Tetsuji *see* **Hayashi, Masahito; et al., 89b:81193** *and* **89a:81131**

Kutasov, David Modular invariance, chiral anomalies and contact terms. **89j:81195**

Labastida, J. M. F. (*with* Pernici, M.) Heterotic-string Lagrangean in the bosonic formulation. **89b:81203**

Lam, C. S. GSO projections for aperiodic strings. **89e:81158**

— (*with* Li, Da-Xi) Direct compactification of heterotic strings from 26 to 4 dimensions via T^{22}/G. **89i:81118**

Lancaster, David (*with* Mansfield, P.) Relations between disc diagrams. **89k:81155**

Landsman, N. P. Universal quantum field theory. (*see* **89h:81005**)

Lang, Wolfdieter The minimal superconformal $(p, 0)$ supercurrents in two dimensions. **89c:81139**

Latinskiĭ, S. M. *see* **Krive, I. V., 89k:81154**

Latorre, José I. Sp(2) BRST invariant quantization of strings: the harmonic gauge. **89g:81081**

Lavrov, P. M. Regularization by means of the generalized zeta-function. (Russian) **89a:81137**

Lawrence, A. M. *see* **Jack, I.; et al., 89f:81184**

Lazarides, G. (*with* Shafi, Q.) Matter parities in three-generation superstring models. **89j:81196**

— (*with* Shafi, Q.; Tomaras, T. N.) Nonexistence of spherically symmetric monopole solutions in the three-generation superstring model. **89m:81151**

— *see also* **Ganoulis, N., 89k:81141**

Laziev, M. E. (*with* Savvidi, G. K.) Transversity of a massless relativistic membrane. **89c:81140**

Lebedev, D. R. (*with* Morozov, A. Yu.) Statistical sums of strings on hyperelliptic surfaces. **89j:81197**

Leblanc, Yvan Bosonic string theory at finite temperature. (*see* **89h:81006**)

Lechtenfeld, Olaf (*with* Samuel, Stuart) Off-shell conformal methods for the superstring. **89j:81198**

— (*with* Samuel, Stuart) Covariant off-shell string amplitudes with auxiliary fields. **89k:81156**

— (*with* Parkes, Andrew) On the vanishing of the genus two superstring vacuum amplitude. **89h:81204**

— *see also* **Kostelecký, V. Alan; et al., 89b:81201** *and* **89c:81136**

LeClair, André An operator formulation of the superstring. **89h:81203**

Lee, Hoong Chien *see* **Zhu, Zhong Yuan, (89h:81006)**

Leonovich, A. A. Conformally invariant equations in field theory and in the general theory of relativity. (Russian) (*see* **89d:81001**)

Lerche, W. (*with* Nilsson, B. E. W.; Schellekens, A. N.) Covariant lattices, superconformal invariance and strings. **89e:81159**

— (*with* Nilsson, B. E. W.; Schellekens, A. N.; Warner, N. P.) Anomaly cancelling terms from the elliptic genus. **89g:81082**

— Elliptic index and superstring effective actions. **89k:81157**

— (*with* Warner, N. P.) Index theorems in $N = 2$ superconformal theories. **89g:81083**

— *see also* **Kostelecký, V. Alan; et al., 89b:81201**

Lerda, A. *see* **Di Vecchia, P.; et al., 89e:81142; 89f:81169** *and* **89f:81170**

Leviant, V. M. *see* **Ivanov, Evgeniĭ Alekseevich^2; et al., 89h:81196**

Levy, Dan The algebra of the Gauss law in $d = 4$ massless axial QED with a WZ term. **89h:81205**

Lewellen, D. C. *see* **Kawai, Hikaru; et al., 89h:81199**

Leznov, A. N. (*with* Mukhtarov, M. A.) The internal symmetry algebra of completely integrable dynamical systems in the quantum regime. (Russian. English summary) **89b:81204**

Lhallabi, T. *see* **El Hassouni, A.; et al., 89c:81116**

Li, Am Gil ★ О формализме Лиувилля в квантовой теории поля. (Russian) [The Liouville formalism in quantum field theory] **89j:81199**

— (*with* Mal′tsev, V. M.) ★ Двухвременная матрица плотности и ее уравнения. Скалярное и фермионное поле. (Russian) [A two-time density matrix and its equations. The scalar and the fermionic field] **89h:81206**

— (*with* Mal′tsev, V. M.) ★ Уравнения для двухвременной матрицы плотности. Приближенные решения в окрестности классического решения. (Russian) [Equations for a two-time density matrix. Approximate solutions in a neighborhood of the classical solution] **89h:81207**

Li, Da-Xi One-loop finiteness of the string theory on the T^{22}/G manifold. (French summary) **89e:81160**

— String theory with three families of chiral fermions. **89h:81208**

— *see also* **Lam, C. S., 89i:81118**

Li, Fu Bin Plane and spherical wave solutions of the field equation for a complex scalar field with a cubic nonlinear term in four-dimensional Minkowski space. (Chinese. English summary) **89k:81158**

Li, Keke Global symmetries in maximal supergravities from compactified superstrings. **89c:81141**

Li, Miao *see* **Gao, Yi Hong, 89a:81129**

Li, Xin Zhou Supermembrane monopole vacua. **89h:81209**

Lima Santos, A. *see* **Abdalla, E.**, (Not in MR)

Lindström, U. (*with* Roček, M.; van Nieuwenhuizen, P.) A Weyl-invariant rigid string. **89c:81142**

— (*with* Roček, M.) Bosonic and spinning Weyl-invariant rigid strings. **89b:81205**

— (*with* Theodoridis, Georgios) Weyl-invariant super p-branes. **89k:81159**

— *see also* **Fujikawa, Kazuo; et al., 89f:81176**

Liu, Bang Gui (*with* Chen, Yi Xin) A new gauge- and BRST-invariant interacting closed bosonic string field theory. **89f:81193**

— Dilaton vertices of the closed superstring and the heterotic string. **89h:81210**

— (*with* Chen, Yi Xin) A covariant open bosonic string field theory including the endpoint and middlepoint interaction. **89k:81160**

Liu, Jian Heng *see* **Dong, Zhi Hua; et al., 89d:81092**

Ljolje, K. *see* **Cvijanović, R., 89i:81108**

Lohe, M. A. (*with* Hurst, C. A.) $N = 2$ case of nonabelian bosonization. **89c:81143**

Lokhvitskiĭ, B. B. *see* **Ketov, S. V., 89m:81148**

Louis, Jan (*with* Ovrut, Burt A.; Garreis, Reiner; Wess, Julius) Schwinger terms, seagulls and the Virasoro anomaly. **89c:81144**

— (*with* Ovrut, Burt A.; Kalyana Rama, S.) Topological approach to Weyl and super-Weyl anomalies in string theory. **89m:81152**

— *see also* **Garreis, Reiner; et al., 89f:81177**

Love, Alex *see* **Bailin, David; et al.**, (Not in MR)

Lü, Jing Fa (*with* Ge, Mo Lin) On algebraic structures in the nonlinear principal chiral model. **89f:81194**

Lu, Shi Rong On modular invariant partition functions in nonunitary theories. **89k:81161**

Lukierski, J. *see* **de Azcárraga, J. A.; et al., 89m:81129**

Lundell, Albert T. (*with* Tosa, Y.) Global anomalies and algebraic topology. **89f:81195**

Lüst, Dieter Covariant fermionic and heterotic strings from the bosonic string. **89e:81161**

— (*with* Theisen, Stefan) Four-dimensional heterotic strings—orbifolds and covariant lattices. **89h:81211**

Lütken, C. A. (*with* Ross, Graham G.) Taxonomy of heterotic superconformal field theories. **89j:81200**

Lykyanov, S. L. *see* **Fateev, V. A., 89b:81186**

Lynker, Monika (*with* Schimmrigk, Rolf) Heterotic string compactification on $N = 2$ superconformal theories with $c = 9$. **89h:81212**

MacKenzie, R. (*with* Wilczek, Frank) Peculiar spin and statistics in two space dimensions. (Not in MR)

Maeda, Kei-ichi (*with* Turok, Neil) Finite-width corrections to the Nambu action for the Nielsen-Olesen string. **89h:81213**

Maeno, Masahiro *see* **Arakawa, Kouichi, 89a:81108**

Magnea, L. *see* **Del Duca, V.; et al., 89c:81111**

Magpantay, J. A. (*with* Reuter, M.) Chiral anomaly from the Fokker-Planck formalism. **89e:81162**

Mahanthappa, K. T. *see* **Ensign, Philip, 89j:81173**

Maharana, J. BRS Hamiltonian quantization of compactified closed bosonic string. **89g:81084**

Maiella, G. *see* **Cristofano, G.; et al., 89a:81120**

Makowka, M. *see* **Cangemi, D.; et al., 89h:81171**

Maliev, I. N. (*with* Spiridonov, V. P.; Faĭnberg, V. Ya.) Stochastic quantization, supersymmetry and renormalization. (Russian) (*see* **89d:81001**)

Malik, R. P. BRST quantization of the chiral Schwinger model. **89h:81214**

Mal'tsev, V. M. *see* **Li, Am Gil, 89h:81206** *and* **89h:81207**

Mancini, F. (*with* Marinaro, M.; Matsumoto, Hideki) Thermo field dynamics: a quantum field theory at finite temperature. (*see* **89g:82003**)

Mandelstam, Stanley The *n*-loop string amplitude. **89e:81163**

— The *N*-loop string amplitude. (*see* **89f:81005**)

Mañes, J. L. An anomalous transformation in string field theory. **89j:81201**

Manin, Yu. I. Quantum strings and algebraic curves. **89g:81085**

Mann, A. (*with* Revzen, M.) Thermal coherent states. **89j:81202**

Mansfield, P. The relationship among canonical quantisation, Polyakov's functional integral and BRST quantisation of the string. **89c:81145**

— (*with* Miramontes, J. L.) The role of the dilaton and tachyon in constructing the string functional integral. **89a:81138**

— *see also* **de Groot, M., 89c:81127** *and* **Lancaster, David, 89k:81155**

Manton, N. S. (*with* Samols, T. M.) Sphalerons on a circle. **89g:81086**

Mao, Ke Fei The Casimir effect in a massive abelian gauge field. (Chinese. English summary) **89j:81203**

Marinaro, M. *see* **Mancini, F.; et al.,** (**89g:82003**)

Marino, E. C. Quantum theory of nonlocal vortex fields. **89k:81162**

— *see also* **Belvedere, L. V., 89g:81067**

Marnelius, R. The formalism of Fradkin and Vilkovisky and the relativistic string. (*see* **89b:81008**)

— *see also* **Hwang, Stephen, 89c:81130**

Martellini, M. Algebraic geometry and covariant scattering amplitudes for fermionic closed strings. **89c:81146**

— *see also* **Bonora, L.; et al., 89e:81138** *and* **Guadagnini, E.; et al., 89h:81192**

Martin, Stephen P. Conformal field theory representation and background-independent action for superstring field theory. **89m:81153**

— *see also* **Horowitz, Gary T., 89b:81194**

Martinec, Emil *see* **Kastor, David; et al., 89b:81197**

Mas, Javier *see* **Ibáñez, L. E.; et al., 89f:81183**

Mathur, Samir D. (*with* Mukhi, Sunil) The $N = 2$ fermionic string: path integral, spin structures and supermoduli on the torus. **89f:81196**

— (*with* Mukhi, Sunil; Sen, Ashoke) Correlators of primary fields in the SU(2) WZW theory on Riemann surfaces. **89m:81154**

Matsuki, Takayuki BRS anomaly for string theories. **89j:81204**

— (*with* Viswanathan, K. S.) Critical dimension of strings with an extrinsic curvature. **89c:81147**

Matsumoto, Hideki Vacuum in thermo field dynamics. **89c:81148**

— *see also* **Mancini, F.; et al.,** (**89g:82003**)

Matsuo, Yutaka Moduli space, conformal algebra and operator formulation on a Riemann surface. **89f:81197**

— *see also* **Kitazawa, Y.; et al., 89m:81149**

Mavromatos, N. E. A remark on the connection between the *C*-theorem and the central charge action in closed bosonic σ-models. **89f:81198**

— (*with* Miramontes, J. L.) Zamolodchikov's *c*-theorem and string effective actions. **89i:81119**

Mazzitelli, F. D. (*with* Paz, J. P.; Castagnino, Mario) Cauchy data and Hadamard singularities in time-dependent backgrounds. **89a:81105**

McArthur, I. N. An obstruction to factorization of determinants on super-Teichmüller parameters in $(1,0)$ supergravity. **89f:81199**

McCarthy, J. G. *see* **Eastaugh, A., 89b:81184**

McCoy, Barry M. (*with* Perk, Jacques H. H.) Relation of conformal field theory and deformation theory for the Ising model. **89b:81206**

McGuigan, Michael Finite-temperature string theory and twisted tori. **89i:81120**

McInnes, Brett Spontaneous splitting and internal isometries of superstring vacua. **89h:81215**

Medvedev, P. B. *see* **Aref'eva, I. Ya., 89j:81155; 89k:81126** *and* **89m:81128**

Meissner, K. A. (*with* Pokorski, S.) Dilaton vertex for open strings. **89c:81149**

Mende, Paul F. *see* **Gross, David J., 89f:81180**

Menskiĭ, M. B. The interaction of strings—on the basis of a path group. (Russian) (*see* **89d:81001**)

Metsaev, R. R. (*with* Tseytlin, A. A.) On loop corrections to string theory effective actions. **89a:81139**

Mezincescu, Luca (*with* Nepomechie, Rafael I.; Townsend, P. K.) Elliptic functions and the closed spinning-string propagator. **89k:81163**

Miki, Kei Determinant of twisted bosons related to the Kac-Moody algebra. **89a:81140**

Minahan, Joseph A. One-loop amplitudes on orbifolds and the renormalization of coupling constants. **89e:81164**

Mintchev, M. *see* **Guadagnini, E.; et al., 89h:81192**

Miramontes, J. L. *see* **Mansfield, P., 89a:81138** *and* **Mavromatos, N. E., 89i:81119**

Miron, Paul *see* **Distler, Jacques; et al., 89c:81114**

Mishra, V. K. (*with* Tanaka, Katsumi) Connection of some two-dimensional bosonic and fermionic models to scalar curvature. **89c:81150**

Mitra, Parthasarathi Noncocyclic anomaly in the Gauss law commutator. **89i:81121**

Mizrachi, Leah *see* **Ellis, Jonathan Richard; et al., 89f:81173**

Moffat, J. W. Infinite-component fields as a basis for a finite quantum field theory. **89i:81122**

Mohammedi, N. *see* **Foakes, A. P.; et al., 89j:81178**

Montano, David Superstrings on hyperelliptic surfaces and the two-loop vanishing of the cosmological constant. **89f:81200**

Moore, Gregory W. Atkin-Lehner symmetry. **89c:81151a**

— Erratum: "Atkin-Lehner symmetry". **89c:81151b**

— (*with* Seiberg, Nathan) Polynomial equations for rational conformal field theories. **89m:81155**

— *see also* **Alvarez-Gaumé, L.; et al., 89b:81171; Anderson, Greg W., 89j:81153; Atick, Joseph J.; et al., 89j:81156** *and* **Harvey, Jeffrey A.; et al., 89m:81144**

Morita, Katsusada *see* **Aramaki, Seiya; et al., 89a:81109a** *and* **89a:81109b**

Morozov, A. Yu. String theory and structure of universal modulus space. **89b:81207**

— (*with* Perelomov, A. M.) Partition functions in superstring theory. Type 2. **89b:81209**

— String theory and the structure of universal module space. **89b:81208**

— Hyperelliptic statsums in superstring theory. **89c:81152**

— (*with* Perelomov, A. M.) Statistical sums in superstring theory. Genus 2. **89c:81153**

— (*with* Perelomov, A. M.) Partition functions in superstring theory. The case of genus two. **89d:81104**

— (*with* Ol'shanetskiĭ, M. A.) The partition function of a bosonic string compactified on an orbifold. **89d:81105**

— Explicit formulas for the one-, two-, three-, and four-loop string amplitudes in the critical dimension. **89h:81166**

— Hyperelliptic partition functions in the theory of superstrings. **89k:81164**

— Two-loop statsum of superstrings. **89j:81205**

— *see also* **Belavin, A. A.; et al., 89h:81165; Kallosh, R., 89j:81191; 89f:81186** *and* **Lebedev, D. R., 89j:81197**

Morris, T. R. General covariance and open string interactions. **89c:81154**

— From first to second-quantized string theory. **89i:81123**

— *see also* **Burgess, C. P., 89d:81087a** *and* **89d:81087b**

Morrow-Jones, Jonathan Lorentz transformations as inner derivations in string field theory and the associativity anomaly revisited. **89a:81141**

Muhammad, Fuad *see* **Gates, S. James, Jr.; et al., 89c:81123**

Mukhi, Sunil *see* **Mathur, Samir D., 89f:81196** *and* **89m:81154**

Mukhtarov, M. A. *see* **Leznov, A. N., 89b:81204**

Müller-Kirsten, H. J. W. *see* **Wiedemann, A.; et al., 89j:81229**

Murthy, Ganpathy N. *see* **Berkovich, A., 89k:81129**

Musto, R. *see* **Cristofano, G.; et al., 89a:81120**

Myers, Robert C. (*with* Penati, S.; Pernici, M.; Strominger, Andrew) Soft dilaton theorem in covariant string field theory. **89k:81165**

Nagao, Greg Involution-dependent constants and the cancellation of divergences in the one-loop open-string amplitude. **89h:81216**

Nakamura, Koichi^2 (*with* Yamanaka, Y.; Umezawa, H.) Linear response in nonequilibrium thermo field dynamics. **89j:81206**

Nakamura, Shigeru *see* **Ezawa, Z. F., 89a:81126; 89a:81127** *and* **89b:81185**

Nakanishi, Tomoki Generalized supersymmetry on Riemann surfaces and the associated string models. **89k:81166**

Nakawaki, Yuji Fermion-boson equivalence in thermo field dynamics. **89h:81217**

— Free-fermionic description of the repulsive nonlinear Schrödinger model. **89h:81218**

Namiki, Mikio (*with* Ohba, Ichiro; Tanaka, Satoshi; Yanga, Danilo M.) Stochastic derivation of the chiral anomaly based on the generalized Langevin equation. **89e:81165**

Naón, Carlos M. *see* **Fradkin, Eduardo; et al., 89c:81118**

Narain, K. S. Asymmetric orbifolds. **89f:81201**

— *see also* **Jayaraman, T., 89e:81153**

Narganes-Quijano, Francisco J. Picture changing operation and BRST-cohomology in superstring field theory. **89j:81207**

Nash, C. G. (*with* Joshi, G. C.) Phase transformations in quaternionic quantum field theory. **89h:81219**

Nazarovskiĭ, E. A. (*with* Obukhov, Yu. N.) Dynamics of the geometry in a bosonic string model. (Russian) **89h:81220**

Ne'eman, Yuval Proposed geometrisations for unitarity-imposing superalgebras of the field/ghost systems. (*see* **89b:81007**)

Nelson, Philip C. Analytic structure of two-dimensional quantum field theories. (*see* **89m:81001**)

— *see also* **Alvarez-Gaumé, L.; et al., 89m:81126**

Nemeschansky, Dennis *see* **Brustein, Ram; et al., 89h:81170** *and* **Bagger, J. A.; et al., 89m:81130**

Nepomechie, Rafael I. (*with* Zee, A.) Phase interaction between extended objects. (*see* **89b:81008**)

— *see also* **Mezincescu, Luca; et al., 89k:81163**

Neuberger, Herbert Bosonized string ghosts. **89a:81142**

— Better way to measure f_π in the linear σ model. **89b:81210**

Neveu, A. (*with* West, Peter) Group theoretic approach to the open bosonic string multiloop *S*-matrix. **89g:81087**

— (*with* West, Peter) Cycling, twisting, and sewing in the group theoretic approach to strings. **89j:81208**

— (*with* West, Peter) Neveu-Schwarz excited string scattering: a superconformal group computation. **89d:81106**

Neyzi, Fahrünisa *see* **Arik, M., 89f:81154**

Ni, Guang Jiong (*with* Wang, Rong Tai) The criterion for fractional charge of $(1+1)$-dimensional Dirac field. **89j:81209**

— *see also* **Wang, Rong Tai, 89f:81220; 89j:81227** *and* **89m:81167**

Nicodemi, F. *see* **Cristofano, G.; et al., 89a:81120**

Nielsen, N. K. *see* **Fujikawa, Kazuo; et al., 89f:81176**

Niemi, Antti J. Lie-algebra cohomology and the $\mathrm{OSp}(1,1|2)$ structure in string theory. **89d:81107**

— Nonequilibrium quantum field theories. **89j:81210**

— *see also* **Aratyn, Henrik; et al., 89a:81110; 89a:81111; 89b:81172** *and* **89c:81100**

van Nieuwenhuizen, P. Diagonalization of the free open spinning string and critical dimensions of nonlinear sigma models. (*see* **89f:81005**)

— *see also* **Curtright, Thomas, 89a:81121; Del Duca, V.; et al., 89c:81111; Lindström, U.; et al., 89c:81142** *and* **Fujikawa, Kazuo; et al., 89f:81176**

Nikolaevskiĭ, E. S. *see* **Vladimirskiĭ, V. V.; et al., (89d:81001)**

Nilles, H. P. Tortured tori. **89k:81167**

— *see also* **Ibáñez, L. E.; et al., 89f:81183; Font, A.; et al., 89j:81179a; 89j:81179b; 89m:81139a** *and* **89m:81139b**

Nilsson, B. E. W. *see* **Lerche, W.; et al., 89e:81159** *and* **89g:81082**

Nima, Shuji *see* **Inoue, Kenzo²; et al., 89j:81188**

Nishimura, Haruhiko (*with* Tabuse, M.; Takama, M.) One-point amplitude and string-loop corrected equation of motion. **89c:81155**

— *see also* **Kitazoe, T.; et al., 89h:81200**

Nishino, Hitoshi *see* **Grisaru, Marcus T.; et al., 89k:81145**

Nissimov, E. (*with* Pacheva, S.; Solomon, S.) Covariant canonical quantization of the Green-Schwarz superstring. **89a:81143**

— (*with* Pacheva, S.; Solomon, S.) Covariant first and second quantization of the $N=2$, $D=10$ Brink-Schwarz superparticle. **89e:81166**

— (*with* Pacheva, S.) Manifestly super-Poincaré-covariant quantization of the Green-Schwarz superstring. **89b:81211**

Nouri-Moghadam, M. (*with* Smith, C. R. R.; Taylor, John G.) Reparametrisation-invariant closed string field theory: foliation structure and physical spectrum. **89b:81212**

Novozhilov, Yu. V. (*with* Yanna, Yu. A.) An analogue of the Penrose transform for a de Sitter space of the second kind. (Russian. English summary) **89b:81213**

Núñez, Carmen *see* **Aldazabal, Gerardo; et al., 89h:81158**

Obukhov, Yu. N. *see* **Nazarovskiĭ, E. A., 89h:81220**

Odaka, Kazuhiko *see* **Inoue, Kazuhiko; et al., 89b:81195**

Odake, S. *see* **Kitazawa, Y.; et al., 89m:81149**

Ogawa, Kaku *see* **Hata, Hiroyuki; et al., 89c:81128** *and* **Itoh, Katsumi; et al., 89d:81099**

Ogievetskiĭ, V. I. *see* **Gal′perin, A. S.; et al., (89d:81001)** *and* **(89g:81003)**

Ogura, Waichi Combinatorics of strings and equivalence of Witten's string field theory to Polyakov's string theory. **89m:81157**

Oh, Phillial Coset representation of closed loop space in string field theory. **89e:81167**

Ohba, Ichiro *see* **Namiki, Mikio; et al., 89e:81165**

Ohrndorf, Theophil A superadditive time coordinate for the closed bosonic string. **89f:81202**

— From conformal quantum mechanics on bordered Riemann surfaces to covariant string field theory. **89d:81108**

— Witten's string field theory on a hyperelliptic curve. **89f:81203**

— The N-string amplitude. "Conserved charges" and generalized boundary variations. **89m:81158**

Ohta, Nobuyoshi Quantized strings on Riemann surfaces and the string-field-theory vertex. **89i:81124**

— BRST-invariant N-superstring vertices. **89m:81159**

Okada, Yasuhiro *see* **Frampton, Paul H., 89h:81185; 89j:81180** *and* **89k:81140**

Okamoto, Yuko *see* **Kenmoku, M.; et al., 89j:81192**

Okubo, Susumu *see* **Tosa, Y., 89c:81170; 89g:81092a; 89g:81092b** *and* **Zhang, Huazhong, 89m:81168**

Olive, D. I. Algebras, lattices and strings 1986. (*see* **89f:81005**)

Ol′shanetskiĭ, M. A. *see* **Morozov, A. Yu., 89d:81105**

Olson, Mark *see* **Freund, Peter G. O., 89d:81094** *and* **Brekke, Lee; et al., 89k:81131**

Omote, Minoru *see* **Inoue, Kazuhiko; et al., 89b:81195**

Önder, M. (*with* Tucker, R. W.) Membrane interactions and total mean curvature. **89f:81204**

Ooguri, Hirosi (*with* Sakai, Norisuke) String loop corrections from fusion of handles and vertex operators. **89b:81214**

O'Raifeartaigh, L. The anomaly-flux-index identity and its Euclidean extension. **89m:81156**

Osanai, A. (*with* Kamata, Masaru; Saito, Satoru) An application of half-order differential operators to two-dimensional supersymmetric theories. (Italian and Russian summaries) **89g:81088**

Oudrhiri-Safiani, E. G. *see* **El Hassouni, A.; et al., 89c:81116**

Ovrut, Burt A. Superstrings and the auxiliary field structure of supergravity. **89c:81156**

— *see also* **Louis, Jan; et al., 89c:81144; Garreis, Reiner; et al., 89f:81177** *and* **Louis, Jan; et al., 89m:81152**

Pacheva, S. *see* **Nissimov, E.; et al., 89a:81143; 89b:81211** *and* **89e:81166**

Padmanabhan, T. (*with* Singh, Tejinder Pal) Response of accelerated detectors in coherent states and the semiclassical limit. **89j:81211**

Pal′chik, M. Ya. *see* **Fradkin, E. S., 89e:81143**

Panagopoulos, H. (*with* Vinet, Luc) Superinvariant chiral and vector fields. **89e:81168**

Panda, Sudhakar One-loop amplitude of bosonic strings with external massless states. **89g:81089**

Papadopoulos, G. *see* **Howe, P. S., 89a:81132**

Papastamatiou, N. J. *see* **Arimitsu, T.; et al., 89g:81065**

Parkes, Andrew *see* **Lechtenfeld, Olaf, 89h:81204**

Pastur, L. A. *see* **Krive, I. V.; et al., 89c:81137**

Pavón, Diego Landau-Lifshitz fluctuations in heterotic superstring evaporation. (Not in MR)

Pavšič, Matej Generalisation of the BDHP string action to membranes of any dimension in curved spacetime. **89h:81221**

Paz, J. P. *see* **Mazzitelli, F. D.; et al., 89a:81105**

Penati, S. *see* **Myers, Robert C.; et al., 89k:81165**

Perelomov, A. M. *see* **Morozov, A. Yu., 89b:81209; 89c:81153; 89d:81104** *and* **Belavin, A. A.; et al., 89h:81165**

Periwal, Vipul *see* **Gross, David J., 89b:81192**

Perk, Jacques H. H. *see* **McCoy, Barry M., 89b:81206**

Pernici, M. *see* **Labastida, J. M. F., 89b:81203** *and* **Myers, Robert C.; et al., 89k:81165**

Peskin, Michael E. Gauge symmetries of string field theory. (*see* **89b:83006**)

Petersen, J. L. (*with* Sidenius, J. R.) Covariant loop-calculus for the closed bosonic string. **89c:81157**

Pettorino, R. *see* **Cristofano, G.; et al., 89a:81120**

Pezzella, F. *see* **Clarizia, A., 89c:81109**

Phong, D. H. *see* **D'Hoker, Eric, 89m:81132** *and* **(89m:81001)**

Pilling, D. J. *see* **Timonen, J.; et al., 89j:81225**

(Pisarski, Robert D.) *see* **David, François Louis, 89h:81178**

Pisello, D. M. *see* **de Ritis, R.; et al., 89b:81217**

Pogrebkov, A. K. String solutions in three-dimensional field models. **89c:81158**

Pohlmeyer, K. (*with* Rehren, K.-H.) The algebra formed by the invariant charges of the Nambu-Goto theory: identification of a maximal abelian subalgebra. **89h:81222**

— The Poisson algebra of the invariant charges of the Nambu-Goto theory: Casimir elements. **89h:81223**

— (*with* Rehren, K.-H.) The invariant charges of the Nambu-Goto theory: their geometric origin and their completeness. **89h:81224**

Pokorski, S. *see* **Meissner, K. A., 89c:81149**

Polchinski, J. From Polyakov to moduli. (*see* **89m:81001**)

— (*with* Cai, Yunhai) Consistency of open superstring theories. **89i:81125**

— Factorization of bosonic string amplitudes. **89j:81212**

Polyakov, A. M. Directions in string theory. (*see* **89f:81005**)

— (*with* Zamolodchikov, Aleksandr B.) Fractal structure of two-dimensional supergravity. **89k:81168**

Pope, C. N. *see* **Duff, M. J.; et al., 89h:81179** *and* **Bars, Itzhak; et al., 89j:81158**

Porrati, Massimo *see* **Ferrara, S.; et al., 89h:81183; 89h:81184** *and* **Kounnas, Costas, 89j:81194**

Pron′ko, G. P. Quantum string theory in four-dimensional space-time. (Russian. English summary) **89b:81215**

— *see also* **Borodulin, V. I.; et al., (89d:81001)**

Pu, Fu Ke *see* **Fan, Hai Tao; et al., 89j:81174**

Qiu, Zongan Modular invariant partition functions for $N=2$ superconformal field theories. **89d:81109**

— (*with* Strominger, Andrew) Gauge symmetries in (super)string field theory. **89h:81225**

— Conformal field theories and modular invariant partition functions for parafermion field theories. **89d:81110**

— *see also* **Kastor, David; et al., 89b:81197**

Quevedo, F. *see* **Ibáñez, L. E.; et al., 89f:81183; Font, A.; et al., 89j:81179a; 89j:81179b; 89m:81139a** *and* **89m:81139b**

Quirós, M. *see* **Kounnas, Costas; et al., 89f:81192** *and* **Chamseddine, A. H.; et al., 89k:81135**

Rabin, Jeffrey M. *see* **Atick, Joseph J.; et al., 89f:81156**

Rabinovici, E. *see* **Bardakci, K.; et al., 89f:81159**

Radul, A. *see* **Bershadskiĭ, M. A., 89e:81136** *and* **89h:81167**

Ragiadakos, C. N. Bosonic string amplitude on a twisted cylinder and string interactions. **89d:81111**

— (*with* Vasiliou, A. E.) Bosonic string amplitudes on a cylinder. **89k:81169**

— An off-shell propagator for a heterotic-like string action. **89e:81169**

Raina, A. K. *see* **Sen, Siddhartha¹, 89m:81163**

Rajaraman, R. Quantum solitons: an overview. (*see* **89b:00027**)

Rajeev, S. G. *see* **Bowick, M. J., 89b:81176**

Rakhmanov, M. A. *see* **Kallosh, R., 89f:81187** *and* **89i:81116**

Rakowski, Mark (*with* Thompson, George) On the associativity anomaly in open string field theory. **89a:81144**

— *see also* **Birmingham, Danny; et al., 89i:81103**

Ramachandran, R. Some aspects of string theories. **89b:81216**

Ramond, P. (*with* Ruiz-Altaba, M.) Introduction to string field theory. **89m:81160**

— Field theory of strings. (*see* **89f:81005**)

— *see also* **Kleppe, Gary; et al., 89k:81152**

Ravanini, Francesco Modular invariance in S_3 symmetric 2D conformal field theories. **89a:81145**

— An infinite class of new conformal field theories with extended algebras. **89f:81205**

— (*with* Yang, Sung-Kil) C-disorder fields and $\Gamma(2)$-invariant partition functions in parafermionic conformal field theories. **89f:81206**

Razumov, A. V. *see* **Borodulin, V. I.; et al., (89d:81001)**

Redlich, A. N. (*with* Schnitzer, Howard J.; Tsokos, K.) Bose-Fermi equivalence on the two-dimensional torus for simply-laced groups. **89a:81146**

— Gauge fixing in string field theory using the Polyakov path integral. **89f:81207**

— Diffeomorphism parameters as coordinates in string field theory. **89h:81226**

— BRST string field theory from Wilson's renormalization group. **89i:81126**

Rego Monteiro, M. A. *see* **D'Adda, A.; et al., 89a:81122**

Rehren, K.-H. (*with* Schroer, Bert) Quasiprimary fields: an approach to positivity of 2D conformal quantum field theory. **89j:81213**

— *see also* **Pohlmeyer, K., 89h:81222** *and* **89h:81224**

Reshetikhin, N. Yu. *see* **Bogolyubov, N. M.; et al., 89a:81115**

Restuccia, A. (*with* Taylor, John G.) Absence of divergences in type II and heterotic string multiloop amplitudes. **89c:81159**

— (*with* Taylor, John G.) Constructing the superstring space-time SUSY algebra in the light-cone gauge. **89j:81214**

— (*with* Taylor, John G.) A new approach to closed string field theory. **89j:81215**

— (*with* Taylor, John G.) On closure of the light-cone gauge closed superstring algebra. **89j:81216**

— (*with* Taylor, John G.) Multi-loops for light-cone gauge superstrings. **89j:81217**

— *see also* **Bressloff, P. C.; et al., 89j:81164**

Reuter, M. Parity-violating anomalies and the stationarity of stochastic averages. **89c:81160**

— Chiral anomaly of antisymmetric tensor fields. **89f:81208**

— *see also* **Magpantay, J. A., 89e:81162**

Revzen, M. *see* **Mann, A., 89j:81202**

Riggs, Harold *see* **Kent, Adrian, 89g:81080**

de Ritis, R. (*with* Pisello, D. M.; Williams, Jeffrey George) Homotopy conservation laws and extension theorems. (Italian summary) **89b:81217**

Roca, J. *see* **Gomis, J., 89j:81186**

Roček, M. *see* **Lindström, U., 89b:81205; 89c:81142** *and* **Fujikawa, Kazuo; et al., 89f:81176**

Rodrigues, João P. Nonorientable one-loop amplitudes for the bosonic open string: electrostatics on a Möbius strip. **89f:81209**

Rodriguez-Trías, R. *see* **Abad, J., 89f:81148**

Romans, L. J. A note on closed-string interactions à la Witten. **89a:81147**
— Operator approach to purely cubic string field theory. **89h:81227**
Römer, H. *see* **Filk, T., 89g:81072**
Ross, Douglas A. *see* **Foakes, A. P.; et al., 89j:81178**
Ross, Graham G. *see* **Lütken, C. A., 89j:81200**
Rossi, Paolo^1 *see* **Campostrini, Massimo; et al., 89k:81132**
Roth, Bernard David Barkan A general approach to quantum fields and strings on adeles. **89m:81161**
Roy, Barnana *see* **Roy, Pinaki; et al.,** (Not in MR)
Roy, Pinaki (*with* Roy, Barnana; Roychoudhury, Rajkumar) On the localisation of strings at finite temperature. (Not in MR)
Roy, S. M. (*with* Singh, Virendra) Strings with new boundary conditions and new dual amplitudes. **89c:81161**
Roychoudhury, Rajkumar *see* **Roy, Pinaki; et al.,** (Not in MR)
Roy Chowdhury, A. *see* **Sidhanta, B., 89a:81152**
Rozhanskiĭ, L. V. *see* **Krasnikov, N. V., 89e:81156**
Rozhavskiĭ, A. S. *see* **Krive, I. V.; et al., 89c:81137**
Ruan, Tu Nan (*with* Jing, Si Cong) Joint invariance of generating functional and chiral anomalous term in gauge theory. **89i:81127**
Ruiz-Altaba, M. *see* **Gamboa, Jorge; et al., 89g:81074; 89j:81182; Huerta, L., 89k:81147** *and* **Ramond, P., 89m:81160**
Ryang, Shijong Chiral bosonization and vanishing of the three-point amplitude at two loops in the heterotic string. **89j:81218**
Safian, Alex M. Some more nonabelian Q-balls. **89h:81228**
Saidi, E. H. *see* **El Hassouni, A.; et al., 89c:81116**
Saito, Satoru String amplitudes as solutions to soliton equations. **89e:81170**
— String vertex on the Grassmann manifold. **89j:81219**
— *see also* **Osanai, A.; et al., 89g:81088**
Saito, Takesi (*with* Wu, Ke) Holomorphic geometry of interacting strings. **89c:81162**
— *see also* **Konisi, Gaku; et al., 89j:81193**
Sakai, Norisuke (*with* Abe, Mitsuko) Coupling constant relations and effective Lagrangian in the type I superstring. **89h:81229**
— *see also* **Ooguri, Hirosi, 89b:81214; Abe, Mitsuko; et al., 89f:81149; 89h:81157a** *and* **89h:81157b**
Sakamoto, Makoto *see* **Inoue, Kenzo**^{2}**; et al., 89a:81134; Itoh, Katsumi; et al., 89h:81195** *and* **Kobayashi, Ken-ichiro, 89k:81153**
Sakita, B. *see* **Gervais, Jean-Loup, 89i:81111**
Samols, T. M. *see* **Manton, N. S., 89g:81086**
Samuel, Stuart Generalized conserved currents in the ghost-extended superstring. **89f:81210**
— Mathematical formulation of Witten's superstring field theory. **89a:81148**
— Covariant off-shell string amplitudes. **89k:81170**
— *see also* **Kostelecký, V. Alan; et al., 89b:81201; 89c:81136; 89d:81103; Lechtenfeld, Olaf, 89j:81198** *and* **89k:81156**
Sánchez, Norma Reparametrization invariance, analytic mappings and the Hawking-Unruh effect in string theory. **89b:81218**
Sanielevici, Mihaela Niculescu (*with* Semenoff, Gordon W.; Wu, Yong Shi^1) Chiral bosonization and local Lorentz-invariant actions for chiral bosons. **89c:81164**
— (*with* Semenoff, Gordon W.; Wu, Yong Shi^1) Path integral analysis of chiral bosonization. **89k:81171**
Säring, B. *see* **Bardakci, K.; et al., 89f:81159**
Sato, Hikaru Classification of symmetry breaking by Wilson lines on the Z orbifold. **89a:81149**
— Strings on an orbifold with background gauge fields. **89i:81128**
Sato, Iwao^3 A note on the vertex functions in the path-integral formulation of strings. **89i:81129**
Savvidi, G. K. *see* **Laziev, M. E., 89c:81140; Biran, B.; et al., 89g:81069** *and* **Arakelyan, T. A., 89j:81154**
Sazdović, B. Equivalence of different formulations of the free Ramond string field theory. **89a:81150**
Schaposnik, Fidel A. *see* **Fradkin, Eduardo; et al., 89c:81118**
Schellekens, A. N. Multiloop modular invariance of the covariant lattice construction of fermionic strings. **89d:81112**
— *see also* **Lerche, W.; et al., 89e:81159** *and* **89g:81082**
Schimmrigk, Rolf *see* **Lynker, Monika, 89h:81212**
Schmid, Christoph H. *see* **Isler, K.; et al., 89c:81132**
Schnitzer, Howard J. *see* **Redlich, A. N.; et al., 89a:81146** *and* **Karabali, Dimitra, 89f:81188**
Schomblond, Christiane *see* **Dresse, Alain; et al., 89j:81171**
Schroer, Bert Quantum field theory on Riemann surfaces and the unitarity problem. **89a:81151**
— Operator approach to conformal invariant quantum field theories and related problems. **89m:81162**
— *see also* **Rehren, K.-H., 89j:81213**
Schwartz, J. A. *see* **Kawai, Hikaru; et al., 89h:81199**
Schwarz, John H. Four-dimensional superstrings—fermionic formulation. **89c:81165**
— Superstring unification. (*see* **89b:83007**)
— The future of string theory. (*see* **89f:81005**)
Schwimmer, Adam *see* **Goddard, Peter, 89g:81075** *and* **89j:81185**
Sciuto, S. *see* **D'Adda, A.; et al., 89a:81122; Di Vecchia, P.; et al., 89e:81142; 89f:81169** *and* **89f:81170**
Segrè, G. *see* **Duncan, M. J., 89a:81125**
Seiberg, Nathan *see* **Dine, Michael, 89c:81113; 89f:81171; Green, Michael B., 89g:81076** *and* **Moore, Gregory W., 89m:81155**
Semenoff, Gordon W. Topological extended objects, anomalies and the geometry of second quantization. (*see* **89h:81005**)
— Index theorems and superconducting cosmic strings. **89f:81211**
— Canonical quantum field theory with exotic statistics. **89h:81230**
— *see also* **Sanielevici, Mihaela Niculescu; et al., 89c:81164** *and* **89k:81171**
Sen, Ashoke Fayet-Iliopoulos D terms in string theory. **89e:81171**
— *see also* **Atick, Joseph J.; et al., 89f:81156; 89j:81156** *and* **Mathur, Samir D.; et al., 89m:81154**
Sen, Siddhartha^1 (*with* Raina, A. K.) Grassmannians, multiplicative Ward identities and theta-function identities. **89m:81163**
Senda, Ikuo Logarithmic divergence in four-dimensional string theory. **89h:81231**
— (*with* Sugamoto, Akio) An orbifold divided by a multi-element discrete symmetry. **89j:81220**
— (*with* Sugamoto, Akio) New orbifold model and modular transformation. **89j:81221**
Sezgin, E. *see* **Bergshoeff, Eric; et al., 89c:81102; Duff, M. J.; et al., 89h:81179; Bars, Itzhak; et al., 89j:81158** *and* **Baulieu, Laurent; et al., 89k:81127**
Shafi, Q. *see* **Lazarides, G., 89j:81196** *and* **89m:81151**
Shapiro, Joel A. (*with* Thorn, Charles B.) Closed string-open string transitions and Witten's string field theory. **89b:81219**
— *see also* **Freedman, Daniel Z.; et al., 89c:81119**
Sharatchandra, H. S. *see* **Anishetty, R.; et al., 89f:81152**
Shavokhina, N. S. Theory of areal objects. (Russian) (*see* **89g:82003**)
Shi, Wan Zhong *see* **Dong, Zhi Hua; et al., 89d:81092**
Shigemoto, Kazuyasu *see* **Hayashi, Masahito; et al., 89a:81131; 89b:81193; Kenmoku, M.; et al., 89j:81192** *and* **Konisi, Gaku; et al., 89j:81193**
Shimada, T. *see* **Bern, Z., 89c:81103**
Shvarts, A. S. The fermion string and a universal modulus space. **89h:81232**
— *see also* **Baranov, M. A., 89e:81134**
Sidenius, J. R. *see* **Petersen, J. L., 89c:81157**
Sidhanta, B. (*with* Roy Chowdhury, A.) Some perturbative and nonperturbative results exposing certain field aspects of Reggeon field theory. **89a:81152**
Siegel, Warren First- and second-class constraints in super-BRST. **89h:81233**
— Conformal invariance of extended spinning particle mechanics. **89j:81222**
— The superparticle revisited. **89e:81172**
— *see also* **Gates, S. James, Jr., 89k:81142**
Sierra, Germán *see* **Jiménez Lorenzo, Fernando, 89j:81190** *and* **Alvarez-Gaumé, L.; et al., 89m:81126**
Sin, Sang-Jin Lorentz invariance of lightcone string field theory. I. Bosonic closed string. **89h:81234**
— Geometry of super lightcone diagrams and Lorentz invariance of lightcone string field theory. II. Closed Neveu-Schwarz string. (Not in MR)
Singh, Lambodar Prasad *see* **Gangopadhyay, Debashis, 89j:81183**
Singh, Tejinder Pal *see* **Padmanabhan, T., 89j:81211**
Singh, Virendra *see* **Roy, S. M., 89c:81161**
Siopsis, George Hamiltonian formulation of string field theory. **89a:81153**
Slavnov, A. A. *see* **Frolov, S. A., 89m:81141**
Sloan, John H. The scattering amplitude for four off-shell tachyons from functional integrals. **89h:81235**
Smirnov, F. A. Solution of the quantum Gel'fand-Levitan-Marchenko equations for the sine-Gordon model for $\gamma=\pi/\nu$. (Russian. English summary) **89b:81220**
Smith, C. R. R. *see* **Nouri-Moghadam, M.; et al., 89b:81212**
So, Hiroto *see* **Fujii, Kazuyuki; et al., 89m:81142**
Sogo, Kiyoshi A way from string to soliton. Introduction of KP coordinate to string amplitudes. **89b:81221**
Sokatchev, E. S. *see* **Gal'perin, A. S.; et al., (89d:81001)** *and* **(89g:81003)**
Solodukhin, S. N. Strings and antisymmetric tensor fields. (Russian) **89h:81236**
Solomon, S. New canonical covariant formalism for the $N=2, D=10$ superparticle. **89f:81212**
— *see also* **Nissimov, E.; et al., 89a:81143** *and* **89e:81166**
Solov'ev, L. D. *see* **Borodulin, V. I.; et al., (89d:81001)**
Sommerfield, C. M. *see* **Freedman, Daniel Z.; et al., 89a:81128**
Soni, S. K. *see* **Balakrishnan, Janaki; et al., 89h:81162**
Sonnenschein, Jacob *see* **Bellucci, Stefano; et al.,** (Not in MR)
Sonoda, Hidenori Functional determinants on punctured Riemann surfaces and their application to string theory. **89b:81222**
— BRST operator on a Riemann surface. **89b:81223**
— Conformal field theories with first-order Lagrangians. **89g:81090**
— Simple superconformal field theories in two dimensions. **89k:81172**
Sorkin, Rafael D. A general relation between kink-exchange and kink-rotation. **89e:81173**
Sorokin, D. P. *see* **Akulov, V. P.; et al., 89k:81123**
Sotkov, G. (*with* Stanishkov, M.) Yukawa couplings for the three-generation string model. **89k:81173a**
— (*with* Stanishkov, M.) Erratum: "Yukawa couplings for the three-generation string model". **89k:81173b**
Spiegelglas, Mordechai Dimensional reducers: Parisi-Sourlas super-rotations as BRST transformations. **89f:81213**
Spiridonov, V. P. *see* **Maliev, I. N.; et al., (89d:81001)**
Spokoĭnyĭ, B. L. Quantum geometry of non-Archimedean particles and strings. **89g:81091**
Srednicki, Mark (*with* Woodard, R. P.) Closed from open strings in Witten's theory. **89c:81166**
— *see also* **Fisk, Mark, 89m:81138**
Stanishkov, M. *see* **Sotkov, G., 89k:81173a** *and* **89k:81173b**
Stelle, K. S. (*with* Townsend, P. K.) Are 2-branes better than 1? **89m:81164**
— *see also* **Duff, M. J.; et al., 89h:81179**
Stephens, C. R. Nonperturbative background field calculations. **89b:81224**
Strominger, Andrew Closed string field theory as the topology of open string fields. **89j:81223**
— *see also* **Qiu, Zongan, 89h:81225** *and* **Myers, Robert C.; et al., 89k:81165**
Suehiro, Kazuhiko Order g gauge invariance of Witten's superstring field theory. **89a:81154**
— Operator expression of Witten's superstring vertex. **89c:81167**
— *see also* **Kugo, Taichiro; et al., 89c:81138** *and* **Itoh, Katsumi; et al., 89d:81099**
Suematsu, Daijiro Generation structure and superpotential in string compactification on $N=2$ superconformal field theory. **89k:81174**
Sugamoto, Akio *see* **Senda, Ikuo, 89j:81220** *and* **89j:81221**
Sun, Yi *see* **Gao, Hong Bo, 89h:81191**

Suranyi, Peter Algebraic construction of partition functions for $c < 1$ minimal conformal field theories. **89k:81175**

Susskind, Leonard *see* **Klebanov, Igor, 89k:81151**

Suwa, Misako *see* **Fujii, Kazuyuki; et al., 89m:81142**

Suzuki, Hiroshi *see* **Fujikawa, Kazuo; et al., 89h:81188**

Sveshnikov, K. A. (*with* Tverskoĭ, V. B.) Quantization of a soliton solution in a $(3+1)$-dimensional model of a scalar field with self-interaction including derivatives. (Russian. English summary) **89c:81168**

— Quantum dynamics of an extended object in N. N. Bogolyubov's group variables. **89f:81214**

Szabó, László E. Quantum kinematics of strings: quantization on $C^\infty(M^3, \mathbf{R}^2)/C^\infty(M^3, \mathrm{GL}(2, \mathbf{R}))$. **89c:81169**

Tabuse, M. *see* **Nishimura, Haruhiko; et al., 89c:81155** *and* **Kitazoe, T.; et al., 89h:81200**

Takahashi, Yasushi *see* **Kobayashi, Masanori, 89b:81200**

Takahasi, Wataru *see* **Konisi, Gaku; et al., 89j:81193**

Takama, M. Superbosonization of the superconformal ghost. **89j:81224**

— *see also* **Nishimura, Haruhiko; et al., 89c:81155**

Takano, Hiroshi *see* **Inoue, Kenzo^2; et al., 89a:81134** *and* **89j:81188**

Talalov, S. V. The Hamiltonian structure of the "Thirring×Liouville" model. Singular solutions. (Russian. English summary) **89b:81225**

Tanaka, Katsumi *see* **Mishra, V. K., 89c:81150**

Tanaka, Satoshi *see* **Namiki, Mikio; et al., 89e:81165**

Tanii, Yoshiaki One-loop amplitudes and divergences in unoriented string theories. **89m:81165**

— *see also* **Bergshoeff, Eric; et al., 89c:81102**

Taormina, Anne *see* **Eguchi, Tohru, 89h:81181**

Tatewaki, Machiko *see* **Kamimura, Kiyoshi, 89d:81100**

Taylor, John G. Is there only one finite superstring? (*see* **89b:81008**)

— *see also* **Nouri-Moghadam, M.; et al., 89b:81212; Restuccia, A., 89c:81159; Bressloff, P. C.; et al., 89j:81164; Restuccia, A., 89j:81214; 89j:81215; 89j:81216** *and* **89j:81217**

Taylor, T. R. Model building on asymmetric Z_3 orbifolds: nonsupersymmetric models. **89h:81237**

Tchrakian, D. H. *see* **Wiedemann, A.; et al., 89j:81229**

Temple-Raston, M. BPS two-monopole scattering. **89f:81215**

Tezuka, A. *see* **Ezawa, Z. F.; et al., 89a:81127** *and* **89b:81185**

Theisen, Stefan *see* **Lüst, Dieter, 89h:81211**

Theodoridis, Georgios *see* **Lindström, Ulf, 89k:81159**

Thompson, George *see* **Rakowski, Mark, 89a:81144** *and* **Birmingham, Danny; et al., 89i:81103**

Thorn, Charles B. *see* **Shapiro, Joel A., 89b:81219** *and* **Freedman, Daniel Z.; et al., 89c:81119**

Timonen, J. (*with* Bullough, R. K.; Pilling, D. J.) Exact Bethe ansatz thermodynamics for the sine-Gordon model in classical limit: effect of long strings. (Russian summary) **89j:81225**

Tomaras, T. N. *see* **Lazarides, G.; et al., 89m:81151**

Torre, C. G. *see* **Birmingham, Danny, 89c:81104**

Tosa, Y. (*with* Okubo, Susumu) Systematic search for anomaly-free theories. **89g:81092a**

— (*with* Okubo, Susumu) Anomaly-free theories in $D = 4k$ dimensions. **89c:81170**

— (*with* Okubo, Susumu) Erratum: "Systematic search for anomaly-free theories". **89g:81092b**

— *see also* **Lundell, Albert T., 89f:81195**

Townsend, P. K. *see* **Mezincescu, Luca; et al., 89k:81163** *and* **Stelle, K. S., 89m:81164**

Traschen, Jennie Linear gravitons from strings. **89k:81176**

Trias, Antoni *see* **Gambini, Rodolfo, 89h:81189**

Troost, W. *see* **Kallosh, R.; et al., 89m:81147**

Trugenberger, C. A. *see* **Isler, K.; et al., 89c:81132**

Tseytlin, A. A. The background field method in covariant second-quantized string theory. (Russian) (*see* **89d:81001**)

— Weyl invariance of a generalized two-dimensional sigma-model. **89k:81177**

— Effective action in type I quantum string theory. (Russian) **89a:81155**

— String theory effective action: string loop corrections. **89b:81226**

— Möbius infinity subtraction and effective action in the σ-model approach to closed string theory. **89e:81174**

— Renormalization of string loop corrections on the disk and the annulus. **89f:81216**

— *see also* **Metsaev, R. R., 89a:81139; Andreev, O. D., 89f:81151** *and* **89k:81125**

Tsokos, K. *see* **Redlich, A. N.; et al., 89a:81146**

Tsuchiya, Akihiro (*with* Kanie, Yukihiro) Vertex operators in conformal field theory on $\mathbf{P}^1$ and monodromy representations of braid group. **89m:81166**

Tsvelik, A. M. Exact solution of a model of one-dimensional fermions with $\mathrm{SU}(N) \times \mathrm{SU}(M)$ symmetry. **89f:81217**

Tucker, R. W. *see* **Önder, M., 89f:81204**

Turok, Neil *see* **Maeda, Kei-ichi, 89h:81213**

Tuszyński, J. A. *see* **Grundland, A. M., 89e:81150**

Tverskoĭ, V. B. *see* **Sveshnikov, K. A., 89c:81168**

Tye, S.-H. H. *see* **Chaudhuri, Shyamoli; et al., 89d:81088** *and* **Kawai, Hikaru; et al., 89h:81199**

Ubriaco, Marcelo R. *see* **Frampton, Paul H.; et al., 89j:81180**

Umezawa, H. *see* **Arimitsu, T.; et al., 89f:81155; 89g:81064a; 89g:81064b; 89g:81065** *and* **Nakamura, Koichi^2; et al., 89j:81206**

Vafa, Cumrun Conformal theories and punctured surfaces. **89f:81218**

— Toward classification of conformal theories. **89k:81178**

— c-theorem and the topology of 2D QFTs. **89k:81179**

— *see also* **Alvarez-Gaumé, L.; et al., 89b:81171; 89m:81126** *and* **Harvey, Jeffrey A.; et al., 89m:81144**

Vaĭsburd, I. D. p-loop vacuum amplitude in the open bosonic string theory. **89f:81219**

Vanagas, Vladislovas The structure and properties of the Hamiltonians of static nonabelian fields that can be generated by Cartan algebras. (Russian) (*see* **89d:81001**)

Van Proeyen, A. *see* **Kallosh, R.; et al., 89m:81147**

Varughese, Cherian (*with* Weisberger, William I.) Off-shell amplitudes for open bosonic strings. **89c:81171**

Vasiliou, A. E. *see* **Ragiadakos, C. N., 89k:81169**

de Vega, H. J. *see* **Destri, C., 89b:81182** *and* **89j:81169**

Veneziano, G. *see* **Kubota, Takahiro, 89e:81157**

Verlinde, Erik Fusion rules and modular transformations in 2D conformal field theory. **89h:81238**

— *see also* **Dijkgraaf, Robbert; et al., 89c:81112**

Verlinde, Herman *see* **Dijkgraaf, Robbert; et al., 89c:81112**

Viallet, C.-M. *see* **Bonora, L.; et al., 89e:81138**

Vindel, P. *see* **de Azcárraga, J. A.; et al., 89m:81129**

Vinet, Luc *see* **Panagopoulos, H., 89e:81168** *and* **Floreanini, Roberto, 89j:81177**

Viswanathan, K. S. (*with* Zhou, Xiaoan) (Oriented) smooth strings on genus-one surface. **89j:81226**

— (*with* Zhou, Xiaoan) H-invariance, imbedding ghost, and strings with extrinsic curvature. **89e:81175**

— (*with* Zhou, Xiaoan) Closed smooth strings on a torus. **89c:81172**

— *see also* **Matsuki, Takayuki, 89c:81147**

Viswanathan, R. Raju *see* **Kleppe, Gary; et al., 89k:81152**

Vladimirskiĭ, V. V. (*with* Il'ina, I. L.; Kiklevich, E. A.; Nikolaevskiĭ, E. S.) Breakdown of symmetry of the rotational motions of a closed relativistic string, and the singular points of the Regge trajectory. (Russian) (*see* **89d:81001**)

— The quantum closed string—a model of the pomeron. **89i:81130**

Volovich, I. V. p-adic space-time and string theory. (Russian. English summary) **89h:81239**

Wadia, Spenta R. String loop calculation of 3-point amplitudes on orbifolds. **89c:81173**

Wallet, J. C. *see* **Ader, J. P., 89e:81132**

Wanders, G. *see* **Cangemi, D.; et al., 89h:81171**

Wang, Rong Tai (*with* Ni, Guang Jiong) The correspondence principle in $(1+1)$-dimensional field theory and the Coleman theorem. **89j:81227**

— (*with* Ni, Guang Jiong) A new formulation of the path integral method for the chiral anomaly. **89f:81220**

— (*with* Ni, Guang Jiong) The chiral anomaly—from path integral method to differential geometric approach. **89m:81167**

— *see also* **Ni, Guang Jiong, 89j:81209**

Warner, N. P. *see* **Freedman, Daniel Z.; et al., 89a:81128; Lerche, W.; et al., 89g:81082** *and* **89g:81083**

Watabiki, Yoshiyuki Covariant equations of motion of background fields in the Polyakov string approach. **89g:81093**

— Weyl anomaly of the product of string vertex functions. **89f:81221**

Watamura, Satoshi *see* **Kostelecký, V. Alan; et al., 89b:81201; Carow-Watamura, Ursula, 89e:81139** *and* **89k:81133**

Waxman, D. Instanton corrections to the Maxwell construction—a simple example. **89h:81240**

Wei, Hua A functional form of superstring field theory. **89k:81180**

Weisberger, William I. *see* **Varughese, Cherian, 89c:81171**

Wess, Julius *see* **Louis, Jan; et al., 89c:81144**

West, Peter A review of duality, string vertices, overlap identities and the group-theoretic approach to string theory. **89j:81228**

— Multiloop ghost vertices and the determination of the multiloop measure. **89h:81187b**

— *see also* **Neveu, A., 89d:81106; 89g:81087; Freeman, M. D., 89h:81187a** *and* **Neveu, A., 89j:81208**

Wiedemann, A. (*with* Müller-Kirsten, H. J. W.; Tchrakian, D. H.) Investigation of a theory with soliton-like configurations. **89j:81229**

Wilczek, Frank *see* **MacKenzie, R.**, (Not in MR)

(Wilkinson, Richard Bryan) *see* **Mandelstam, Stanley, 89e:81163**

Williams, Jeffrey George *see* **de Ritis, R.; et al., 89b:81217**

Windey, P. *see* **Alvarez, Orlando, (89m:81001)**

Witten, Edward Some remarks about string field theory. (*see* **89f:81005**)

— *see also* **Freund, Peter G. O., 89d:81095** *and* **Brekke, Lee; et al., 89k:81131**

Woodard, R. P. *see* **Srednicki, Mark, 89c:81166**

Wu, Ke *see* **Saito, Takesi, 89c:81162**

Wu, Yong Shi^1 Anomalies in $D = 2$ field theories with $(1,0)$ world-sheet supersymmetry. (*see* **89h:81006**)

— *see also* **Sanielevici, Mihaela Niculescu; et al., 89c:81164** *and* **89k:81171**

Xiong, Chuan Sheng *see* **Dai, Yuan Ben; et al., 89f:81166**

Xu, Kai Wen Covariant second quantization of a spinning string in $M_d \times G$ space-time. (Chinese. English summary) **89j:81230**

Xu, Rui-Ming *see* **Grisaru, Marcus T., 89f:81179**

Yamagishi, Hidenaga A space-time approach to chiral anomalies. **89b:81227**

Yamakoshi, Hitoshi Arithmetic of strings. **89j:81231**

Yamanaka, Y. *see* **Arimitsu, T.; et al., 89g:81064a; 89g:81064b; 89g:81065** *and* **Nakamura, Koichi^2; et al., 89j:81206**

Yang, Li (*with* Zhu, Yu Jie) $\mathrm{OSp}(1, 1|2)$ and a new BRST quantization of the free open Ramond string. **89h:81241**

Yang, Sung-Kil *see* **Ravanini, Francesco, 89f:81206**

Yanga, Danilo M. *see* **Namiki, Mikio; et al., 89e:81165**

Yankielowicz, Shimon *see* **Brustein, Ram; et al., 89h:81170**

Yanna, Yu. A. *see* **Novozhilov, Yu. V., 89b:81213**

Ye, Chang-Yuan Covariantized closed string fields from light-cone. **89k:81181**

I'Yi, W. S. (*with* Kim, Kee Yong; Kim, Yong Duk) Ricci-flat and $D = 26$ conditions from the string functional measures. **89h:81242**

Ying, Peng Cheng *see* **Dong, Zhi Hua; et al., 89d:81092**

Yu, Ming (*with* Zheng, Hai Bin) $N = 2$ superconformal invariance in two-dimensional quantum field theories. **89b:81228**

— The unitary constructions of the $N = 4$ SU(2) extended superconformal algebras. **89a:81157**

— *see also* **Di Vecchia, P.; et al., 89f:81168** *and* **Koh, I. G., 89h:81201**

Yu, Yue *see* **Chen, Wei; et al., 89h:81172**

Yue, Rui Hong *see* **Chen, Yi Xin; et al., 89d:81089**

Zaikov, R. P. Self-duality in the theory of the bosonic p-branes. **89h:81243**

Zakrzewski, W. J. *see* **de Azcárraga, J. A., 89a:81112**

Zamolodchikov, Aleksandr B. Higher-order integrals of motion in two-dimensional models of the field theory with a broken conformal symmetry. **89c:81175**

— Conformal scalar field on the hyperelliptic curve and critical Ashkin-Teller multipoint correlation functions. **89c:81174**
— Conformal symmetry in two-dimensional space: on a recurrent representation of the conformal block. (Russian. English summary) **89d:81113**
— *see also* **Apikyan, S. A., 89h:81160** *and* **Polyakov, A. M., 89k:81168**
Zanelli, Jorge *see* **Gamboa, Jorge, 89c:81122; 89g:81074** *and* **89h:81190**
Zanon, D. *see* **Grisaru, Marcus T.; et al., 89k:81145**
Zee, A. *see* **Nepomechie, Rafael I.**, (**89b:81008**)
Zerbini, S. *see* **Cognola, Guido, 89d:81090**
Zha, Chao Zheng On the problem of the cosmological constant. (*see* **89b:81006**)
Zhang, Huazhong (*with* Okubo, Susumu) Global gauge anomaly and James numbers of Stiefel manifolds. **89m:81168**
Zhang, R. B. Lagrangian formulation of open and closed p-adic strings. **89k:81182**
Zhang, Yao Zhong *see* **Chen, Yi Xin; et al., 89d:81089** *and* **Hou, Bo Yu; et al., 89k:81146**
Zhao, Bao Heng *see* **Fan, Hai Tao; et al., 89j:81174**
Zhao, Wei Dong *see* **Dai, Yuan Ben; et al., 89f:81166; Huang, Chao Shang; et al., 89f:81182** *and* **Chen, Wei; et al., 89h:81173**
Zhao, Zhi Yong *see* **Huang, Chao Shang; et al., 89f:81182**
Zheltukhin, A. A. Hamiltonian structure of the antisymmetric action of a string. **89e:81176**
— On a para-Grassmann extension of the Neveu-Schwarz-Ramond algebra. (Russian. English summary) **89c:81176**
Zheng, Hai Bin *see* **Yu, Ming, 89b:81228**
Zhou, Xiaoan *see* **Viswanathan, K. S., 89c:81172; 89e:81175** *and* **89j:81226**
Zhou, Yu Kui Algebraic Bethe ansatz for the nonlinear Schrödinger model. I. Multicomponent fields. **89m:81169**
— Algebraic Bethe ansatz for the nonlinear Schrödinger model. II. Mixed fermion and boson fields. **89m:81170**
— The construction of the eigenstates for nonlinear Schrödinger model with supermatrices and attractive coupling. **89f:81222**
Zhu, Yu Jie *see* **Yang, Li, 89h:81241**
Zhu, Zhong Yuan (*with* Lee, Hoong Chien) Scalar field and the Polyakov string. (*see* **89h:81006**)
Zorin, O. L. The general form of the gauge-invariant bosonic string field action for spacetime of arbitrary dimension. **89m:81171**
— *see also* **Borodulin, V. I.; et al.**, (**89d:81001**)
Zuber, J.-B. *see* **Cappelli, A.; et al., 89b:81178** *and* **Bagger, J. A.; et al., 89m:81130**
Zwiebach, Barton Constraints on covariant theories for closed string fields. **89k:81183**
Zwirner, Fabio *see* **Kounnas, Costas; et al., 89f:81192**

Items with secondary classifications in 81E99

Abe, Mitsuo (*with* Nakanishi, Noboru) Complete gauge fixing in the new local supersymmetry of the vierbein formalism of Einstein gravity. **89e:83032**
Adzhemyan, L. Ts. (*with* Vasil′ev, A. N.; Gnatich, M.) A turbulent dynamo as the spontaneous breakdown of symmetry. (Russian. English summary) **89d:76017**
Agu, M. Field theory of pattern identification. **89g:92063**
Alacoque, C. (*with* Ruelle, P.; Thiran, E.; Verstegen, D.; Weyers, J.) Quantum amplitudes on p-adic fields. **89h:81058**
Albeverio, S. Some personal remarks on nonstandard analysis in probability theory and mathematical physics. **89h:03117**
Alcaraz, Francisco C. (*with* Martins, Márcio J.) Conformal anomaly and critical exponents of the spin-1 Takhtajan-Babujian model. **89e:82003**
Aldrovandi, R. (*with* Kraenkel, R. A.) On exterior variational calculus. **89g:49056**
Arsenault, Guy (*with* Jacques, Michel; Saint-Aubin, Yvan) Collapse and exponentiation of infinite symmetry algebras of Euclidean projective and Grassmannian σ models. **89k:58298**
Aspinwall, P. S. (*with* Greene, Brian R.; Kirklin, Kelley H.; Miron, Paul) Searching for three-generation Calabi-Yau manifolds. **89e:53071**
Axenides, Minos *see* **Safian, Alex M.; et al., 89m:81192**
de Azcárraga, J. A. (*with* Lukierski, J.) Superfield algebraic structures with Grassmann-valued structure constants. (*see* **89g:81001**)
— (*with* Lukierski, J.) Superalgebras with Grassmann-algebra-valued structure constants from superfields. **89f:22026**
Baekler, Peter (*with* Seitz, Mario; Winkelmann, Volker) Cylindrically symmetric solutions of self-consistently coupled Dirac fields in gauge theories of gravity. **89c:83041**
Bagger, J. A. (*with* Nemeschansky, Dennis; Yankielowicz, Shimon) Virasoro algebras with central charge $c > 1$. **89h:17034**
Bakas, I. (*with* McMullan, D.) Group theoretical quantization on loop spaces and the Sugawara construction. **89h:81079**
Balachandran, A. P. Wess-Zumino terms and quantum symmetries: a review. **89h:81098**
Bandyopadhyay, Pratul *see* **Ghosh, Pradip, 89e:81034**
Bassanelli, Giovanni On a characteristic Cauchy problem. (Italian summary) **89b:35155**
Bengtsson, Ingemar The fermionic gauge symmetry in the Green-Schwarz action. **89a:81168**
— (*with* Cederwall, M.) Particles, twistors and the division algebras. **89k:81051**
Berezin, F. A. ★ Метод вторичного квантования. (Russian) [The method of second quantization] **89c:81001**
Bjorkman, J. E. (*with* Tosa, Y.) Anomaly-free supergravity theories remain anomaly-free after dimensional reduction. **89b:83092**
(Bombelli, Luca) *see* **Moore, Cristopher, 89b:83066**
Bonato, C. A. (*with* Thomaz, M. T.; Malbouisson, A. P. C.) Equivalence of the propagator of quasistatical solutions and the quantum harmonic oscillator. **89m:81029**
Bonora, L. (*with* Bregola, M.; Cotta-Ramusino, P.; Martellini, M.) Virasoro-type algebras and BRST operators on Riemann surfaces. **89d:17020**
Boukraa, S. The BRS algebra of a free minimal differential algebra. **89k:17034**
Braden, H. W. Extending $N = \frac{1}{2}$ supersymmetries. **89d:81122**
Bregola, M. *see* **Bonora, L.; et al., 89d:17020**
Brevik, I. Higher-order correction to the Casimir force on a compact ball when $\varepsilon\mu = 1$. **89b:81241**
Bukhbinder, I. L. (*with* Kuzenko, S. M.) Superfields of matter in an external field of $N = 1$ supergravity. Green functions, effective action, superconformal anomalies. (Russian) (*see* **89d:81001**)
Burstall, Francis E. Twistor methods for harmonic maps. **89b:58054**
Cederwall, M. *see* **Bengtsson, Ingemar, 89k:81051**
Cho, B. H. *see* **Park, D. K.; et al., 89b:81085**
Clavelli, L. (*with* Harms, B.) Excited-state vertices for type-I superstrings. **89h:81249**
Cohn, J. D. Modular geometry of superconformal field theory. **89m:32035**
Coleman, Sidney *see* **Safian, Alex M.; et al., 89m:81192**
Cotta-Ramusino, P. *see* **Bonora, L.; et al., 89d:17020**
Cvetič, Mirjam Exact construction of $(0, 2)$ Calabi-Yau manifolds. **89a:53052**
D'Auria, R. (*with* Fré, P.) Duality in superspace and anomaly free supergravity: some remarks. **89f:83098**
Di Francesco, P. (*with* Saleur, H.; Zuber, J.-B.) Critical Ising correlation functions in the plane and on the torus. **89d:82038**
Dittrich, W. (*with* Sieber, M.) On the trace anomaly of the energy-momentum tensor from the one-loop effective Lagrangian in QED. **89i:81165**
Drozhzhinov, Yu. N. *see* **Vladimirov, V. S.; et al., 89j:46043**
Duff, M. J. $E_8 \times \mathrm{SO}(16)$ symmetry of $d = 11$ supergravity? **89h:83037**
Faĭnberg, V. Ya. (*with* Marshakov, A. V.) Local supersymmetry and Dirac particle propagator as a path integral. **89j:81249**
Fedorov, F. I. *see* **Kuvshinov, V. I.**, (**89d:81001**)
Fenstad, Jens Erik Infinities in mathematics and the natural sciences. **89f:03005**
Ferrer, È. *see* **de la Incera, V.; et al.**, (**89d:81001**)
Forman, Robin Functional determinants and geometry. **89b:58212**
Fré, P. *see* **D'Auria, R., 89f:83098**
Fukuda, Reijiro Stability conditions in quantum system. A general formalism. **89j:81075**
Fushchich, V. I. (*with* Zhdanov, R. Z.) On the reduction and some new exact solutions of the nonlinear Dirac and Dirac-Klein-Gordon equations. **89j:81026**
Ghosh, Pradip (*with* Bandyopadhyay, Pratul) Stochastic field theory at finite temperature, supersymmetry, and Witten index. **89e:81034**
Giddings, Steven B. (*with* Nelson, Philip C.) Torsion constraints and super Riemann surfaces. **89d:83073**
Gnatich, M. *see* **Adzhemyan, L. Ts.; et al., 89d:76017**
(Goddard, Peter) *see* **Kac-Moody and Virasoro algebras, 89f:17022**
Goff, William E. *see* **Stone, Michael, 89h:81083**
Govindarajan, T. R. *see* **Sudarshan, E. C. G.; et al., 89i:81052**
Gracey, J. A. Nonperturbative effects in the exact S-matrices of the $\mathrm{O}(N)$ Gross-Neveu and supersymmetric σ models. **89j:81124**
Green, Michael B. Superstring theory. **89c:81002**
Greene, Brian R. *see* **Aspinwall, P. S.; et al., 89e:53071**
Guest, M. A. (*with* Pressley, A. N.) Holomorphic curves in loop groups. **89i:58016**
Gutkin, Eugene Harmonic analysis of the quantum nonlinear Schrödinger equation. **89j:81245**
Harms, B. *see* **Clavelli, L., 89h:81249**
Henneaux, M. (*with* Teitelboim, Claudio) BRST cohomology in classical mechanics. **89h:17022**
Hermann, Robert Differential form methods in the theory of variational systems and Lagrangian field theories. **89m:58054**
Hosokawa, Mizuhiko (*with* Takeda, Gyo) Supersymmetries in extreme nonrelativistic systems. **89j:81061**
Hsu, Jong Ping (*with* Whan, Chagarn) Klauder's continuous representations and fuzzy coordinate variables. II. **89k:81017**
Imbo, Tom D. *see* **Sudarshan, E. C. G.; et al., 89i:81052**
de la Incera, V. (*with* Ferrer, È.; Shabad, A. E.) The Bose-condensation problem in gauge theory. (Russian) (*see* **89d:81001**)
Jacobson, Ted Supergravity. (*see* **89m:83003**)
— Bosonic path integral for spin-$\frac{1}{2}$ particles. **89m:81056**
Jacques, Michel *see* **Arsenault, Guy; et al., 89k:58298**
Kac, Victor G. (*with* van de Leur, J. W.) Super boson-fermion correspondence. (French summary) **89i:17006**
Kashcheev, V. N. Kinks in systems with cubic and quartic anharmonism. **89i:81018**
Kasper, U. On the importance of quantum mechanics for the axiomatic approach to the theory of gravitation. **89e:83038**
Ketov, S. V. (*with* Lokhvitskiĭ, B. B.; Tyutin, I. V.) Hyper-Kähler sigma-models in extended superspace. (Russian. English summary) **89b:81247**
Khovanova, T. G. Lie superalgebra $\mathrm{osp}(1/2)$, Neveu-Schwarz superalgebra and superization of Korteweg-de Vries equation. **89k:58123**
Kim, H. S. *see* **Park, D. K.; et al., 89b:81085**
Kirillov, A. N. (*with* Smirnov, F. A.) Solution of some combinatorial problems arising in the calculation of correlators in exactly solvable models. (Russian. English summary) **89f:82082**
Kiritsis, Elias B. The $\hat{c} = \frac{2}{3}$ minimal $N = 1$ superconformal system and its realisation in the critical $\mathrm{O}(2)$ Gaussian model. **89e:81126**
Kirklin, Kelley H. *see* **Aspinwall, P. S.; et al., 89e:53071**
Klauder, John R. Stochastic quantization and the complex Langevin method. (*see* **89h:81005**)
Korepin, V. E. Dual field formulation of quantum integrable models. **89d:82032**
Kraenkel, R. A. *see* **Aldrovandi, R., 89g:49056**
Kulish, P. P. Integrable models in field theory, and simple Lie algebras and Lie superalgebras. (Russian) (*see* **89d:81001**)
Kundu, A. Gauge unification of integrable nonlinear systems. **89e:58122**
Kuvshinov, V. I. (*with* Fedorov, F. I.) Use of Noether identities for the construction of supergravity models. (Russian) (*see* **89d:81001**)
Kuzenko, S. M. *see* **Bukhbinder, I. L.**, (**89d:81001**)
Kwon, P. (*with* Villasante, M.) Casimir operators for massless representations of the super-Poincaré algebra and the reduction of the ten-dimensional massless scalar superfield. **89j:17005**
Labastida, J. M. F. (*with* Pernici, M.) $N = 4$ supersymmetric Lagrangian for self-dual fields. **89g:81105**
Lauer, Michael R. Holomorphic vacuum bundles over Super-$\mathrm{Diff}(S^1)/S^1$. **89f:58023**

Lavrov, P. M. (*with* Odintsov, S. D.; Tyutin, I. V.) Effective actions in theories of quantum gravity. **89d:83037**

Lazzizzera, I. (*with* Tecchiolli, G.; Zerbini, S.) Stochastic quantization of linearized gravitational theories. **89d:83038**

(Lee, Joohan) *see* **Moore, Cristopher, 89b:83066**

Leĭtes, D. A. (*with* Savel′ev, M. V.; Serganova, V. V.) Imbeddings of the Lie superalgebra osp(1|2) and the nonlinear supersymmetric equations associated with them. (Russian) **89h:17042**

van de Leur, J. W. *see* **Kac, Victor G., 89i:17006**

Li, Keke Character-valued index theorems in supersymmetric string theories. **89h:58179**

Lin, Fang Hua A remark on the map $x/|x|$. (French summary) **89b:58056**

Lokhvitskiĭ, B. B. *see* **Ketov, S. V.; et al., 89b:81247**

Lott, J. Real anomalies. **89h:58035**

Lukierski, J. *see* **de Azcárraga, J. A., 89f:22026** *and* **(89g:81001)**

Macfarlane, A. J. Current algebra for chiral $G \times G$ theory with Wess-Zumino term. (*see* **89h:81006**)

Makhan′kov, V. G. (*with* Pashaev, O. K.) Nonlinear integrable models with a noncompact group in the theory of a weakly nonideal Bose-gas. (Russian) (*see* **89d:81001**)

Malbouisson, A. P. C. *see* **Bonato, C. A.; et al., 89m:81029**

Manin, Yu. I. (*with* Shekhtman, V. V.) Distributions of real hyperplanes and the Zamolodchikov equations. (Russian) **89h:32038**

Manoukian, Edward B. Functional approach to scattering in quantum field theory. **89j:81240**

Mansfield, P. The first Donaldson invariant as the winding number of a Nicolai map. **89m:58034**

Marmo, G. (*with* Morandi, G.; Simoni, A.; Sudarshan, E. C. G.) Quasi-invariance and central extensions. **89g:58072**

Marshakov, A. V. *see* **Faĭnberg, V. Ya., 89j:81249**

Martellini, M. *see* **Bonora, L.; et al., 89d:17020**

Martins, Márcio J. *see* **Alcaraz, Francisco C., 89e:82003**

Mathieu, Pierre Superconformal algebra and supersymmetric Korteweg-de Vries equation. **89c:58052**

Matsuyama, Toyoki Quantization of conductivity induced by topological structure of energy-momentum space in generalized QED$_3$. **89b:81270**

Mazur, Paweł O. Cobordisms and semiclassical instability of toroidal compactifications. **89b:83082**

McArthur, I. N. Line integrals on super-Riemann surfaces. **89m:58014**

McMullan, D. (*with* Paterson, J.) Factor ordering and ghost variables. **89h:81076**

— *see also* **Bakas, I., 89h:81079**

(Meyer, David A.) *see* **Moore, Cristopher, 89b:83066**

Minakhin, V. V. (*with* Shander, V. N.) Some properties of parametric integration on supermanifolds. (Russian) (*see* **89d:81001**)

Miron, Paul *see* **Aspinwall, P. S.; et al., 89e:53071**

Moore, Cristopher Comment on: "Space-time as a causal set" [Phys. Rev. Lett. **59** (1987), no. 5, 521–524] by L. Bombelli, J. Lee, D. A. Meyer and R. D. Sorkin. **89b:83066**

Morandi, G. *see* **Marmo, G.; et al., 89g:58072**

Müller-Kirsten, H. J. W. (*with* Wiedemann, A.) ★ Supersymmetry. **89j:81001**

Nakajima, Hiraku Compactness of the moduli space of Yang-Mills connections in higher dimensions. **89g:58050**

Nakanishi, Noboru *see* **Abe, Mitsuo, 89e:83032**

Nelson, Philip C. *see* **Giddings, Steven B., 89d:83073**

Nemeschansky, Dennis *see* **Bagger, J. A.; et al., 89h:17034**

Nikolaenko, V. M. Pseudoparticle models with gravitational topological charge. (Russian) (*see* **89d:81001**)

Nomura, Masao Boson and fermion operator realizations of Schur-functions appearing in solvable nonlinear models. **89h:81276**

Odintsov, S. D. *see* **Lavrov, P. M.; et al., 89d:83037**

(Olive, D. I.) *see* **Kac-Moody and Virasoro algebras, 89f:17022**

Pak, D. G. *see* **Zupnik, B. M., (89d:81001)**

Parisi, Giorgio On p-adic functional integrals. **89e:81120**

Park, D. K. (*with* Kim, H. S.; Cho, B. H.; Yi, S. H.) Extended Sugawara model with anomaly. **89b:81085**

Pashaev, O. K. *see* **Makhan′kov, V. G., (89d:81001)**

Paterson, J. *see* **McMullan, D., 89h:81076**

Pavšič, Matej Classical motion of membranes, strings and point particles with extrinsic curvature. **89f:81137**

Pernici, M. *see* **Labastida, J. M. F., 89g:81105**

(Polivanov, M. K.) *see* **Berezin, F. A., 89c:81001**

Pressley, A. N. *see* **Guest, M. A., 89i:58016**

Quan, Xiang Lin (*with* Wang, Lian Ji; Song, He Shan) Introducing division by an "a" number and a new "b" number in particle physics. **89k:16044**

Ravanini, Francesco (*with* Yang, Sung-Kil) Modular invariance in $N = 2$ superconformal field theories. **89c:17028**

Rivers, R. J. ★ Path integral methods in quantum field theory. **89j:81059a**

— ★ Path integral methods in quantum field theory. **89j:81059b**

Rocha Filho, T. M. (*with* Vianna, J. D. M.) Jordan algebra and field theory. **89b:83095**

Ruelle, P. *see* **Alacoque, C.; et al., 89h:81058**

Sachs, Robert G. ★ The physics of time reversal. **89b:81001**

Safian, Alex M. (*with* Coleman, Sidney; Axenides, Minos) Some nonabelian Q-balls. **89m:81192**

Saint-Aubin, Yvan *see* **Arsenault, Guy; et al., 89k:58298**

Saito, Takesi *see* **Zhao, Zhi Yong; et al., 89a:58012**

Saleur, H. *see* **Di Francesco, P.; et al., 89d:82038**

Sarnak, P. Determinants of Laplacians. **89e:58116**

Sasaki, Ryu *see* **Yamanaka, Itaru, 89k:81056**

Savel′ev, M. V. *see* **Leĭtes, D. A.; et al., 89h:17042**

Schimmrigk, Rolf A new construction of a three-generation Calabi-Yau manifold. **89e:53072**

Seitz, Mario *see* **Baekler, Peter; et al., 89c:83041**

Serganova, V. V. *see* **Leĭtes, D. A.; et al., 89h:17042**

Shabad, A. E. *see* **de la Incera, V.; et al., (89d:81001)**

Shander, V. N. *see* **Minakhin, V. V., (89d:81001)**

Shekhtman, V. V. *see* **Manin, Yu. I., 89h:32038**

Shumkina, T. S. *see* **Sokolov, D. D., 89i:82046**

Sieber, M. *see* **Dittrich, W., 89i:81165**

Simoni, A. *see* **Marmo, G.; et al., 89g:58072**

Smirnov, F. A. *see* **Kirillov, A. N., 89f:82082**

Sokolov, D. D. (*with* Shumkina, T. S.) The structure of the moments of a scalar field in a random medium. (Russian) **89i:82046**

Solov′ev, M. A. On the group of gauge transformations and Singer's theorem. **89m:58035**

Song, He Shan *see* **Quan, Xiang Lin; et al., 89k:16044**

(Sorkin, Rafael D.) *see* **Moore, Cristopher, 89b:83066**

Stasheff, James Constrained Hamiltonians: a homological approach. **89j:58034**

Stone, Michael (*with* Goff, William E.) Berry's phase, commutators, and the Dirac sea. **89h:81083**

Sudarshan, E. C. G. (*with* Imbo, Tom D.; Govindarajan, T. R.) Configuration space topology and quantum internal symmetries. **89i:81052**

— *see also* **Marmo, G.; et al., 89g:58072**

Takeda, Gyo *see* **Hosokawa, Mizuhiko, 89j:81061**

Tecchiolli, G. *see* **Lazzizzera, I.; et al., 89d:83038**

Teitelboim, Claudio *see* **Henneaux, M., 89h:17022**

Thiran, E. *see* **Alacoque, C.; et al., 89h:81058**

Thomaz, M. T. *see* **Bonato, C. A.; et al., 89m:81029**

Tosa, Y. *see* **Bjorkman, J. E., 89b:83092**

Tyutin, I. V. *see* **Ketov, S. V.; et al., 89b:81247** *and* **Lavrov, P. M.; et al., 89d:83037**

Vaĭntrob, A. Yu. Deformations and moduli of supermanifolds. (Russian) (*see* **89d:81001**)

Vasil′ev, A. N. *see* **Adzhemyan, L. Ts.; et al., 89d:76017**

Verdiev, Ĭ. A. Multiplicative integrals of the representations PSU(1.1) and SU(2), and vertex operators. (Russian) (*see* **89d:81002**)

Verstegen, D. *see* **Alacoque, C.; et al., 89h:81058**

Vianna, J. D. M. *see* **Rocha Filho, T. M., 89b:83095**

Villasante, M. *see* **Kwon, P., 89j:17005**

Vladimirov, V. S. (*with* Drozhzhinov, Yu. N.; Zav′yalov, B. I.) ★ Tauberian theorems for generalized functions. **89j:46043**

Wang, Lian Ji *see* **Quan, Xiang Lin; et al., 89k:16044**

Weyers, J. *see* **Alacoque, C.; et al., 89h:81058**

Whan, Chagarn *see* **Hsu, Jong Ping, 89k:81017**

Wiedemann, A. *see* **Müller-Kirsten, H. J. W., 89j:81001**

Winkelmann, Volker *see* **Baekler, Peter; et al., 89c:83041**

Witten, Edward Topological quantum field theory. **89m:57037**

Wu, Ke *see* **Zhao, Zhi Yong; et al., 89a:58012**

Yamanaka, Itaru (*with* Sasaki, Ryu) Super Virasoro algebra and solvable supersymmetric quantum field theories. **89k:81056**

Yang, Sung-Kil *see* **Ravanini, Francesco, 89c:17028**

Yankielowicz, Shimon *see* **Bagger, J. A.; et al., 89h:17034**

Yi, S. H. *see* **Park, D. K.; et al., 89b:81085**

Yu, Yue Supersymmetry and the Gauss-Bonnet-Chern theorem. (Chinese. English summary) **89c:58122**

Zav′yalov, B. I. *see* **Vladimirov, V. S.; et al., 89j:46043**

Zerbini, S. *see* **Lazzizzera, I.; et al., 89d:83038**

Zhang, Yao Zhong Covariant anomaly and cohomology in connection space. **89m:58211**

Zhao, Zhi Yong (*with* Wu, Ke; Saito, Takesi) Superstring field theories on super-flag manifolds: superdiff S^1/S^1 and superdiff $S^1/\text{super}\, S^1$. **89a:58012**

Zhdanov, R. Z. *see* **Fushchich, V. I., 89j:81026**

Zhelobenko, D. P. Transvector algebras in the theory of representations, and dynamic symmetries. (Russian) (*see* **89d:81002**)

Zhitnitskiĭ, A. R. Discrete chiral symmetry breaking in QCD and Gribov's ambiguous potentials. **89b:81240**

Zuber, J.-B. *see* **Di Francesco, P.; et al., 89d:82038**

Zupnik, B. M. (*with* Pak, D. G.) Invariant background quantization of superfield $N = 1$ supergravity. (Russian) (*see* **89d:81001**)

Items listed otherwise than by author

Kac-Moody and Virasoro algebras ★ Kac-Moody and Virasoro algebras. **89f:17022**

81Fxx Scattering theories

Suz′ko, A. A. *see* **Zakhar′ev, B. N., 89e:81177**

Zakhar′ev, B. N. (*with* Suz′ko, A. A.) ★ Потенциалы и квантовое рассеяние. (Russian) [Potentials and quantum scattering] **89e:81177**

Items with secondary classifications in 81Fxx

Pavlov, B. S. The theory of extensions, and explicitly solvable models. (Russian) **89b:47009**

81F05 2-body potential scattering theory [see also 34E20 for WKB methods]

Afanas′ev, G. N. Uniqueness of wave functions and scattering in multiply connected spaces. (Russian) (*see* **89d:81002**)

Aktosun, Tuncay Potentials which cause the same scattering at all energies in one dimension. **89f:81223**

— Exact solutions of the Schrödinger equation and the nonuniqueness of inverse scattering on the line. **89j:81232**

Arshansky, R. I. (*with* Horwitz, L. P.) Covariant phase shift analysis for relativistic potential scattering. **89j:81233**

Balslev, Erik Bounds on many-body resonances. (French summary) **89b:81229**

Baye, D. Phase-equivalent potentials from supersymmetry. **89e:81178**

Bollé, D. (*with* Gesztesy, F.; Danneels, C.) Threshold scattering in two dimensions. (French summary) **89k:81184**

Bollini, C. G. (*with* Giambiagi, J. J.) Analyticity in fourth-order wave equations. (Italian summary) **89g:81094**

Carvalho, Maria Conceicaõ, V. (*with* Streit, L.) A remark on the second virial coefficient in the quantum Lorentz model. **89m:81172**

Chadan, Khosrow (*with* Kobayashi, Reido) Le problème inverse en constante de couplage. III. (English summary) [The inverse problem in the coupling constant. III] **89m:81173**

Coutinho, F. A. B. *see* **Perez, J. Fernando; et al., 89f:81232**

Dai, An Ying *see* **Ma, Zhong Qi, 89j:81237**

Danneels, C. *see* **Bollé, D.; et al., 89k:81184**

Denisov, A. M. Numerical methods in solving the inverse problems of scattering. **89b:81230**

Dereziński, Jan Threshold singularities of two-cluster-two-cluster scattering amplitudes for dilation analytic potentials. **89f:81224**

Dolveck-Guilpard, B. Practical construction of potentials corresponding to exact rational reflection coefficients. (*see* **89f:35007**)

Duneczky, Csilla (*with* Wyatt, Robert E.) Lanczos recursion, continued fractions, Padé approximants, and variational principles in quantum scattering theory. **89f:81225**

Egikyan, R. S. (*with* Zhidkov, E. P.) Solution of the inverse scattering problem on the semi-axis. (Russian) (*see* **89g:82003**)

Ezawa, Hiroshi What kinds of problems should physics consider? (Japanese) **89b:81231**

Fabre de la Ripelle, Michel (*with* Fiedeldey, Harry) An exact integro-differential equation for the ground state of a many-body system with central two-body interactions. (French summary) **89i:81131**

Farina, J. E. G. Transmission probability and traversal time in scattering by a one-dimensional potential of finite range. **89f:81226**

Fiedeldey, Harry *see* **Fabre de la Ripelle, Michel, 89i:81131**

Gailitis, Madris Threshold phenomena in three-particle systems with Coulomb interaction. (Russian) (*see* **89d:81002**)

Gesztesy, F. *see* **Bollé, D.; et al., 89k:81184**

Giambiagi, J. J. *see* **Bollini, C. G., 89g:81094**

Gorenflo, N. Inversion formulae for first-order approximations in fixed-energy scattering by compactly supported potentials. **89j:81234**

Handy, Carlos R. (*with* Luo, Lishi; Mantica, Giorgio; Msezane, Alfred Z.) Exact bounds to one-dimensional potential scattering amplitudes through the classical theory of moments. **89f:81227**

Hayashi, Nakao (*with* Tsutsumi, Yoshio) Scattering theory for Hartree type equations. (French summary) **89a:81158**

Hodgson, R. J. W. Generating phase-equivalent potentials. **89j:81235**

Horáček, Jiří Extrapolation technique for solution of scattering integral equations. **89m:81174**

Horwitz, L. P. *see* **Arshansky, R. I., 89j:81233**

Huestis, David L. Degenerate Siegert states. **89m:81175**

Hurst, C. A. *see* **McGuire, J. B., 89c:81178**

Hussein, M. S. (*with* Marques, G. C.) Symmetrical representation of the transition matrix. I. Formal development. **89b:81232**

— (*with* Wreszinski, W.) On the second-order virial coefficient and the relationships between quantum and classical statistics and scattering. **89c:81177**

Jensen, Arne Bounds on resonances for Stark-Wannier and related Hamiltonians. **89i:81132**

Killingbeck, J. Boolean functions and finite difference eigenvalues. **89h:81244**

Klaus, M. Low-energy behaviour of the scattering matrix for the Schrödinger equation on the line. **89k:81185**

Kobayashi, Reido *see* **Chadan, Khosrow, 89m:81173**

Kopeć, Sławomir Some properties of the method of continued fractions. **89j:81236**

Korotyaev, E. L. On resonance scattering in a pair of spaces. (Russian. English summary) **89b:81233**

Kostrykin, V. V. *see* **Kvitsinskiĭ, A. A., 89f:81228**

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Luo, Lishi *see* **Handy, Carlos R.; et al., 89f:81227**

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Malta, C. P. *see* **Perez, J. Fernando; et al., 89f:81232**

Mantica, Giorgio *see* **Handy, Carlos R.; et al., 89f:81227**

Marques, G. C. *see* **Hussein, M. S., 89b:81232**

McGuire, J. B. (*with* Hurst, C. A.) Three interacting particles in one dimension: an algebraic approach. **89c:81178**

Miller, William H. *see* **Peet, Andrew C., 89m:81176**

Msezane, Alfred Z. *see* **Handy, Carlos R.; et al., 89f:81227**

Muzafarov, V. M. Inverse scattering problem for a family of phase-equivalent nonlocal potentials. **89f:81229**

Nagiev, Sh. M. On a hidden symmetry of a relativistic Coulomb problem in the quasipotential approach. **89f:81230**

Newton, R. G. Stability of the generalised Marchenko method. **89f:81231**

Peet, Andrew C. (*with* Miller, William H.) A pointwise representation of the *S*-matrix Kohn variational principle for quantum scattering. **89m:81176**

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Popushoĭ, M. N. A generalized version of the inverse problem of the theory of potential scattering of charged particles. (Russian. English summary) **89i:81133**

Puzynin, I. V. *see* **Zhanlav, T.; et al., 89k:81186**

Rakit·skiĭ, A. V. *see* **Zhanlav, T.; et al., 89k:81186**

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Srivastava, P. K. *see* **Saxena, R. P.; et al., 89f:81233**

Streit, L. (*with* Todorov, I. T.) Exact solution of a relativistic quasipotential equation for charged spinless particles. **89c:81179**

— *see also* **Carvalho, Maria Conceicaõ, V., 89m:81172**

Sukumar, C. V. Supersymmetry and potentials with bound states at arbitrary energies. II. **89d:81114**

Todorov, I. T. *see* **Streit, L., 89c:81179**

Tsutsumi, Yoshio *see* **Hayashi, Nakao, 89a:81158**

Varma, V. S. *see* **Saxena, R. P.; et al., 89f:81233**

Wreszinski, W. *see* **Hussein, M. S., 89c:81177**

Wyatt, Robert E. *see* **Duneczky, Csilla, 89f:81225**

Yajima, Kenji Some notes conerning the Schrödinger equation—quasiclassical approximation and time-periodicity. (Japanese) **89b:81234**

Yoon, Sung Hyun Scattering-into-cones theorem for a certain impurity scattering. **89f:81234**

Zhang, Xin Wei *see* **Zhao, Xian Geng, 89h:81245**

Zhanlav, T. (*with* Puzynin, I. V.; Rakit·skiĭ, A. V.) ★ Схема сплайн-коллокации для численного решения одноканальной задачи рассеяния. (Russian) [A spline-collocation scheme for the numerical solution of a one-channel scattering problem] **89k:81186**

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Zhidkov, E. P. *see* **Egikyan, R. S., (89g:82003)**

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Items with secondary classifications in 81F05

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Benguria, Rafael *see* **Ashbaugh, Mark S., 89i:81012**

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Cheney, Margaret *see* **Rose, James H., 89h:35245**

Cibils, M. B. *see* **Amrein, W. O.; et al., 89d:35135**

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(Efimov, O.) *see* **Levitan, B. M., 89b:34001**

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Jauslin, H. R. Exact propagator and eigenfunctions for multistable models with arbitrarily prescribed *N* lowest eigenvalues. **89j:81029**

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Khare, Avinash *see* **Dabrowska, J. W.; et al., 89j:81024**

Kitada, Hitoshi A relation between the modified wave operators $W_J^\pm$ and $W_D^\pm$. **89m:35171**

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— *see also* **Bollé, D.; et al., 89k:34028a** *and* **89k:34028b**

Kondrat′ev, V. A. *see* **Egorov, Yuriĭ Vladimirovich, 89i:35104** *and* **89i:35105**

Kvitsinskiĭ, A. A. A trace formula for the Schrödinger operator with Coulomb potential in a three-dimensional space. (Russian. English summary) **89f:81041**

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Levitan, B. M. ★ Inverse Sturm-Liouville problems. **89b:34001**

Martinez, André Estimations de l'effet tunnel pour le double puits. II. États hautement excités. (English summary) [Estimates of the tunnel effect for double wells. II. Highly excited states] **89i:35044**

— *see also* **Helffer, Bernard, 89h:35083**

Nakamura, Shu Integral kernels of the scattering matrices for time-periodic Schrödinger equations. **89h:35254**

Nardini, Franco On the asymptotic behaviour of the eigenfunctions of the relativistic *N*-body Schrödinger operator. (Italian summary) **89j:81038**

Ozawa, Tohru *see* **Hayashi, Nakao, 89k:35175**

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Roach, G. F. *see* **Leis, R., 89h:35084**

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Sigal, Israel M. Mathematical questions of quantum many-body theory. **89c:81181**

Sinha, K. B. *see* **Amrein, W. O.; et al., 89d:35135**

Skibsted, Erik *see* **Balslev, Erik, (89g:35002)**

Sukhatme, Uday P. *see* **Dabrowska, J. W.; et al., 89j:81024**

Varma, V. S. *see* **Pandey, R. K., 89m:81045**

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Yafaev, D. R. Eikonal approximation for rapidly decreasing potentials. I. (Russian. English summary) **89a:35059**
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81F10 *n*-body potential scattering theory

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Enss, Volker Asymptotic time evolutions for strictly outgoing multiparticle quantum systems with long-range potentials. **89j:81238**
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Fiedeldey, Harry *see* **Fabre de la Ripelle, Michel, 89m:81179**
Gandyl′, E. M. (*with* Zubarev, A. L.) The Faddeev-Hahn equations in the quantum-mechanical three-body problem. **89h:81246**
Kartavtsev, O. I. *see* **Belyaev, V. B.; et al., 89m:81178**
Knabe, Stefan Generalization of the Faddeev equations to long-range potentials. **89g:81096**
Kochkin, V. I. *see* **Belyaev, V. B.; et al., 89m:81178**
Komarov, V. V. (*with* Popova, A. M.; Shablov, V. L.) On a connection between stationary and nonstationary scattering theories for systems of particles with Coulomb interaction. (Russian. English summary) **89k:81187**
Kukulin, V. I. (*with* Pomerantsev, V. N.) Description of many-particle scattering on the basis of the projection method. (Russian. English summary) **89h:81247**
Kuznetsov, G. I. A group approach to the three-body problem. (Russian) (*see* **89d:81002**)
Kvitsinskiĭ, A. A. (*with* Merkur′ev, S. P.) Effective potential in low-energy elastic $(2 \to 2)$ scattering of three charged particles. (Russian. English summary) **89a:81159**
Matsui, Yoshiko Pole term decomposition of the resolvent kernel in Fredholm's form. **89c:81180**
Merkur′ev, S. P. *see* **Kvitsinskiĭ, A. A., 89a:81159**
Minlos, R. A. (*with* Mogilner, A. I.) Spectrum analysis and scattering theory for a three-particle cluster operator. **89d:81115**
Minowa, H. Theory of three-particle scattering in the time-dependent formalism. (Italian and Russian summaries) **89d:81116**
Mogilner, A. I. *see* **Minlos, R. A., 89d:81115**
Pomerantsev, V. N. *see* **Kukulin, V. I., 89h:81247**
Popova, A. M. *see* **Komarov, V. V.; et al., 89k:81187**
Sasakawa, Tatuya *see* **Sawada, Tatsuro, 89m:81180**
Sawada, Tatsuro (*with* Sasakawa, Tatuya) On the equivalence of the LS triad and the Faddeev equation. **89m:81180**
Servadio, S. "Truly three-body" scattering and unitarity. I, II. (Italian and Russian summaries) **89m:81181**
Shablov, V. L. *see* **Komarov, V. V.; et al., 89k:81187**
Shapoval, D. V. *see* **Simenog, I. V., 89f:81235**
Sigal, Israel M. (*with* Soffer, A.) Asymptotic completeness of multiparticle scattering. **89h:81248**
— Mathematical questions of quantum many-body theory. **89c:81181**
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Simenog, I. V. (*with* Shapoval, D. V.) Interaction range perturbation theory for the three-body problem. **89f:81235**
Soffer, A. *see* **Sigal, Israel M., 89g:81097** *and* **89h:81248**
Zepalova, M. L. Effective long-range potential in three-body theory. **89d:81117**
Zubarev, A. L. *see* **Gandyl′, E. M., 89h:81246**

Items with secondary classifications in 81F10

Coutinho, F. A. B. *see* **Perez, J. Fernando; et al., 89f:81232**
Ezawa, Hiroshi What kinds of problems should physics consider? (Japanese) **89b:81231**
Fabre de la Ripelle, Michel Structure de la fonction d'onde des états liés à N corps. (English summary) [Structure of the many-body bound state wave function] **89m:81208**
Hitchin, Nigel (*with* Murray, M. K.) Spectral curves and the ADHM method. **89f:53105**
Malta, C. P. *see* **Perez, J. Fernando; et al., 89f:81232**
Murray, M. K. *see* **Hitchin, Nigel, 89f:53105**
Perez, J. Fernando (*with* Malta, C. P.; Coutinho, F. A. B.) A lower bound for the ground-state energy of many particles moving in one dimension. **89f:81232**
Ruijsenaars, S. N. M. Action-angle maps and scattering theory for some finite-dimensional integrable systems. I. The pure soliton case. **89b:58101**
Wolniewicz, L. A new numerical procedure for the construction of orthonormal hyperspherical functions. **89j:81283**

81F15 *S*-matrix theory, etc.

Andrianov, A. A. (*with* Borisov, N. V.; Ioffe, M. V.) Scattering theory for the supersymmetric Hamiltonian, and supersymmetry of nuclear interactions. (Russian. English summary) **89a:81160**
Borisov, N. V. *see* **Andrianov, A. A.; et al., 89a:81160**
Clavelli, L. (*with* Harms, B.) Excited-state vertices for type-I superstrings. **89h:81249**
Ezhov, S. N. *see* **Girko, V. L.; et al., 89h:81250**
Galvan, J. B. (*with* Sesma, J.) Ambiguities in the Debye expansion of the elastic S matrix. **89a:81161**
Girko, V. L. (*with* Ezhov, S. N.; Plyuĭko, V. A.) Integral equations for the averaged scattering matrix. (Russian. English summary) **89h:81250**
Harms, B. *see* **Clavelli, L., 89h:81249**
Ioffe, M. V. *see* **Andrianov, A. A.; et al., 89a:81160**
Kuperin, Yu. A. (*with* Makarov, K. A.; Pavlov, B. S.) Model of resonance scattering of compound particles. (Russian. English summary) **89m:81182**
Makarov, K. A. *see* **Kuperin, Yu. A.; et al., 89m:81182**
Medvedev, B. V. (*with* Pavlov, V. P.; Polivanov, M. K.) Analytic properties of many-particle amplitudes in axiomatic quantum field theory. (Russian) **89g:81098**
Mladenov, Ivailo M. Scattering of charged particles off dyons. **89c:81182**
Pavlov, B. S. *see* **Kuperin, Yu. A.; et al., 89m:81182**
Pavlov, V. P. *see* **Medvedev, B. V.; et al., 89g:81098**
Plyuĭko, V. A. *see* **Girko, V. L.; et al., 89h:81250**
Polivanov, M. K. *see* **Medvedev, B. V.; et al., 89g:81098**
Ramm, A. G. Inverse scattering on half-line. **89j:81239**
Sesma, J. *see* **Galvan, J. B., 89a:81161**
Shao, Chang Gui *see* **Xu, Bang Qing; et al., 89b:81235**
Wang, Yong Jiu *see* **Xu, Bang Qing; et al., 89b:81235**
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Items with secondary classifications in 81F15

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Abdalla, M. C. B. *see* **Abdalla, E.; et al., 89c:81098**
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Caianiello, Eduardo R. (*with* Guz, W.) The Dirac-like equation in phase space and baryon mass spectrum. (Italian and Russian summaries) **89f:81258**
Èntral′go, È. È. *see* **Zorin, A. V.; et al., 89i:81061**
Forger, M. *see* **Abdalla, E.; et al., 89c:81098**
Guz, W. *see* **Caianiello, Eduardo R., 89f:81258**
Kirillov, A. N. (*with* Smirnov, F. A.) Form factors in O(3) nonlinear σ-model. **89f:81091**
Kuryshkin, V. V. *see* **Zorin, A. V.; et al., 89i:81061**
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Nemeschansky, Dennis *see* **Brustein, Ram; et al., 89h:81170**
Pereyra, Pedro The supersymmetric formalism and the stochastic model symmetries in the fermion-fermion sector. **89f:81273**
Senyuk, Yu. V. Statistical distribution of phases of elements of the S-matrix of a compound-nucleus reaction. (Russian. English summary) **89j:81270**
Smirnov, F. A. *see* **Kirillov, A. N., 89f:81091**
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Volovich, I. V. p-adic space-time and string theory. (Russian. English summary) **89h:81239**
Yankielowicz, Shimon *see* **Brustein, Ram; et al., 89h:81170**
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81F20 Particle scattering theories

Akkelin, S. V. (*with* Kobylinskiĭ, N. A.; Martynov, E. S.; Shelest, V. P.) Dual dynamics of constituent interchange in soft and hard hadronic processes. **89f:81236**
Bijtebier, J. Relativistic bound states: transition matrix elements for the scattering by an external field. (Italian and Russian summaries) **89i:81134**
Chaichian, Masud (*with* Fischer, Jan) Higher-dimensional space-time and unitarity bound on the scattering amplitude. **89h:81251**
Deser, S. (*with* Jackiw, R.) Classical and quantum scattering on a cone. **89k:81188**
Dittrich, J. (*with* Exner, P.) A nonrelativistic model of two-particle decay. II. Reduced resolvent. **89c:81183**
Exner, P. *see* **Dittrich, J., 89c:81183**
Eyre, D. (*with* Wright, C. J.) Adaptive mesh grading for finite element solutions of an integral equation in quantum scattering. **89b:81236**
Falcón, C. A. *see* **Reinhold, C. O., 89f:81238**
Fischer, Jan *see* **Chaichian, Masud, 89h:81251**
Greiner, W. *see* **Pop, A.; et al., 89c:81186**
Jackiw, R. *see* **Deser, S., 89k:81188**
Jacobson, Ted (*with* Tsamis, N. C.; Woodard, R. P.) Tachyons and perturbative unitarity. **89i:81135**
de Kerf, E. A. Particles, fields and scattering in relativistic quantum theory. (*see* **89m:81083**)
Klink, W. H. Dual pairs and representations of scattering amplitudes. **89c:81184**
— Scattering operators on Fock space. II. Representations of the scattering operator generated by $\mathrm{SL}(2,\mathbf{R})$. **89e:81179a**
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Kobylinskiĭ, N. A. *see* **Akkelin, S. V.; et al., 89f:81236**
Kuperin, Yu. A. (*with* Makarov, K. A.; Merkur′ev, S. P.; Motovilov, A. K.; Pavlov, B. S.) The quantum problem of several particles with internal structure. I. The two-body problem. **89i:81136**
Laha, U. *see* **Sett, G. C.; et al., 89j:81241**
Makarov, K. A. *see* **Kuperin, Yu. A.; et al., 89i:81136**
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Martin, André Some comparison theorems on moments in the ground state and in excited states of a two-body system. **89f:81237**
Martynov, E. S. *see* **Akkelin, S. V.; et al., 89f:81236**
Merkur′ev, S. P. *see* **Kuperin, Yu. A.; et al., 89i:81136**
Motovilov, A. K. *see* **Kuperin, Yu. A.; et al., 89i:81136**
Muzafarov, V. M. The inverse scattering problem in a class of nonlocal potentials. II. Coupled partial channels. (Russian. English summary) **89c:81185**
Nishioka, Michio A theorem on the rate of regeneration in decay processes. **89m:81183**
Pavlov, B. S. *see* **Kuperin, Yu. A.; et al., 89i:81136**
Pop, A. (*with* Săndulescu, A.; Scutaru, H.; Greiner, W.) Charge equilibration mode as an open quantum system. **89c:81186**
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Sändulescu, A. *see* **Pop, A.; et al., 89c:81186**
Scutaru, H. *see* **Pop, A.; et al., 89c:81186**
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Shelest, V. P. *see* **Akkelin, S. V.; et al., 89f:81236**
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— A problem of stability in phase shift analysis. **89j:81242**
Talukdar, B. *see* **Sett, G. C.; et al., 89j:81241**
Tsamis, N. C. *see* **Jacobson, Ted; et al., 89i:81135**
Woodard, R. P. *see* **Jacobson, Ted; et al., 89i:81135**
Wright, C. J. *see* **Eyre, D., 89b:81236**

Items with secondary classifications in 81F20

Atkinson, D. (*with* Hulsebos, A.; Johnson, P. W.) Chiral symmetry breakdown. III. Delbourgo's gauge technique. **89d:81118**
Baye, D. Phase-equivalent potentials from supersymmetry. **89e:81178**
Biyajima, Minoru *see* **Suzuki, Naomichi, 89g:60263**
Borisov, N. V. (*with* Müller, Werner[1]; Schrader, Robert) Relative index theorems and supersymmetric scattering theory. **89j:58131**
Hulsebos, A. *see* **Atkinson, D.; et al., 89d:81118**
Johnson, P. W. *see* **Atkinson, D.; et al., 89d:81118**
Khenkin, G. M. (*with* Novikov, R. G.) A multidimensional inverse problem in quantum and acoustic scattering. **89i:35129**
Kostelecký, V. Alan (*with* Lechtenfeld, Olaf; Lerche, W.; Samuel, Stuart; Watamura, Satoshi) Conformal techniques, bosonization and tree-level string amplitudes. **89b:81201**
Kulish, P. P. (*with* Sokolov, M. A.) On scattering theory in the massless Lee model. (Russian. English summary) **89h:81094**
Kuperin, Yu. A. (*with* Makarov, K. A.; Pavlov, B. S.) Model of resonance scattering of compound particles. (Russian. English summary) **89m:81182**
Lechtenfeld, Olaf *see* **Kostelecký, V. Alan; et al., 89b:81201**
Lerche, W. *see* **Kostelecký, V. Alan; et al., 89b:81201**
Makarov, K. A. *see* **Kuperin, Yu. A.; et al., 89m:81182**
Mladenov, Ivailo M. Scattering of charged particles off dyons. **89c:81182**
Müller, Werner[1] *see* **Borisov, N. V.; et al., 89j:58131**
Novikov, R. G. *see* **Khenkin, G. M., 89i:35129**
Ong, Michael K. The solution of the s-wave Bethe-Goldstone equation with a standard hard core potential. **89f:81272**
Pavlov, B. S. *see* **Kuperin, Yu. A.; et al., 89m:81182**
Saito, Satoru String vertex on the Grassmann manifold. **89j:81219**
Samuel, Stuart *see* **Kostelecký, V. Alan; et al., 89b:81201**
Schrader, Robert *see* **Borisov, N. V.; et al., 89j:58131**
Sharma, D. K. *see* **Sud, K. K.; et al., 89m:33008**
Sokolov, M. A. *see* **Kulish, P. P., 89h:81094**
Soto Vargas, C. W. *see* **Sud, K. K.; et al., 89m:33008**
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81F30 Dispersion theory, dispersion relations

Items with secondary classifications in 81F30

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81F99 None of the above, but in this section

Abramov, D. I. The reconstruction of the interaction potential from scattering data by means of nonlinear equations. **89h:81252**
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Biedenharn, L. C. *see* **Wu, Jian Shi; et al., 89b:81238**
Brändas, Erkki *see* **Engdahl, Erik, 89h:81254**
Brander, O. *see* **DeFacio, B., 89h:81253**
Cornier, Marianne *see* **Gratias, Denis; et al., 89j:81244**
DeFacio, B. (*with* Brander, O.) Coherent-state path-integral formulation of inverse scattering theory. **89h:81253**
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Hirschfelder, J. O. *see* **Moiseyev, N., 89b:81237**
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Khare, Avinash (*with* Sukhatme, Uday P.) Scattering amplitudes for supersymmetric shape-invariant potentials by operator methods. **89m:81185**
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Manoukian, Edward B. Functional approach to scattering in quantum mechanics. **89a:81163**
Manton, N. S. Monopole and skyrmion bound states. **89h:81255**
Mende, Paul F. *see* **Gross, David J., 89c:81187**
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Mowrey, Richard C. *see* **Kouri, Donald J.; et al., (89f:81004)**
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Roy Chowdhury, A. *see* **Sen, Shibani, 89f:81241**
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Burridge, R. (*with* Beylkin, G.) On double integrals over spheres. **89f:86006**
Cheney, Margaret (*with* Rose, James H.) Generalization of the Fourier transform: implications for inverse scattering theory. **89d:35036**
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Fan, Hai Tao (*with* Pu, Fu Ke; Zhao, Bao Heng) Bethe ansatz equations for the multicomponent nonlinear Schrödinger model with supermatrices. **89j:81174**
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van Hove, L. Negative binomial multiplicity distributions in continuous domains. **89d:60014**
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Luppi, Jussi Evaluation of general high-order phase integrals. **89h:81040**
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Smirnov, F. A. Solution of the quantum Gel′fand-Levitan-Marchenko equations for the sine-Gordon model for $\gamma = \pi/\nu$. (Russian. English summary) **89b:81220**
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Zhao, Bao Heng *see* **Fan, Hai Tao; et al., 89j:81174**

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– The construction of the eigenstates for nonlinear Schrödinger model with supermatrices and attractive coupling. **89f:81222**

81Gxx Particle physics (this covers all kinds of particles and interactions)

81G05 Strong interaction

Aragão de Carvalho, C. A. (*with* Rothe, K. D.) Wilson loops in bosonized two-dimensional QCD. **89f:81243**
Atkinson, D. (*with* Hulsebos, A.; Johnson, P. W.) Chiral symmetry breakdown. III. Delbourgo's gauge technique. **89d:81118**
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van Baal, P. (*with* Koller, Jeffrey) QCD on a torus, and electric flux energies from tunneling. **89b:81239**
Dosch, H. G. (*with* Simonov, Yu. A.) The area law of the Wilson loop and vacuum field correlators. **89f:81245**
Gribov, V. N. A new hypothesis on the nature of quark and gluon confinement. (*see* **89f:81005**)
Hueffmann, Andreas Classical stability and semiclassical ground state of a nonmoving, rigid glue loop. **89j:81247**
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Johnson, P. W. *see* **Atkinson, D.; et al., 89d:81118**; **89f:81244a** *and* **89f:81244b**
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Koller, Jeffrey *see* **van Baal, P., 89b:81239**
Kotcheff, A. C. W. (*with* Shore, G. M.) Complex symmetries, the SQCD vacuum and supersymmetric vacuum alignment. **89c:81189**
Leonov, I. V. (*with* Tokarev, V. F.) Complex structure of the vacuum, and electromagnetic properties of the constituent quarks. **89c:81190**
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Shifman, M. A. *see* **Morozov, A. Yu.; et al., 89j:81248**
Shore, G. M. *see* **Kotcheff, A. C. W., 89c:81189**
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Slavnov, A. A. The effective Lagrangian in supersymmetric quantum chromodynamics. (Russian) (*see* **89d:81001**)
Souček, Jiří QCD at the hadron scale and nonlocal Thirring model.
Tokarev, V. F. *see* **Leonov, I. V., 89c:81190**
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Zhitnitskiĭ, A. R. Discrete chiral symmetry breaking in QCD and Gribov's ambiguous potentials. **89b:81240**

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Baacke, J. (*with* Schenk, A.) Casimir energy and baryon number for small hedgehogs. **89a:81059**
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Brower, Richard C. (*with* Moriarty, K. J. M.; Myers, Eric; Rebbi, Claudio) The multigrid method for fermion calculations in quantum chromodynamics. (*see* **89c:65005**)
Cahill, R. T. (*with* Roberts, C. D.; Praschifka, J.) Why baryons are not Skyrmions. **89c:81195**
Caianiello, Eduardo R. (*with* Guz, W.) The Dirac-like equation in phase space and baryon mass spectrum. (Italian and Russian summaries) **89f:81258**
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Enqvist, K. *see* **Ellis, Jonathan Richard; et al., 89f:81259**
Fubini, S. *see* **De Alfaro, V.; et al., 89h:81073**
Furlan, G. *see* **De Alfaro, V.; et al., 89h:81073**
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Gorskiĭ, A. S. Berry's phase and the chiral anomaly. **89m:81143**
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Guz, W. *see* **Caianiello, Eduardo R., 89f:81258**
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Jarfi, M. *see* **Le Yaouanc, A.; et al., 89b:81167**
Kalara, S. *see* **Ellis, Jonathan Richard; et al., 89f:81259**
Katkevičius, Osvaldas *see* **Vanagas, Vladislovas, 89f:81112**
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Moriarty, K. J. M. *see* **Brower, Richard C.; et al., (89c:65005)**
Myers, Eric *see* **Brower, Richard C.; et al., (89c:65005)**
Nakanishi, Noboru Nishijima's work on gauge theories. (*see* **89m:81002**)
Nanopoulos, D. V. *see* **Ellis, Jonathan Richard; et al., 89f:81259**
Ne'eman, Yuval (*with* Šijački, Djordje) Hadrons in an $\overline{\text{SL}}(4, \mathbf{R})$ classification. **89f:81257**
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Olive, K. A. *see* **Ellis, Jonathan Richard; et al., 89f:81259**
Oliver, L. *see* **Le Yaouanc, A.; et al., 89b:81167**
Pène, O. *see* **Le Yaouanc, A.; et al., 89b:81167**
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Prokhorenko, E. B. *see* **Matinyan, S. G.; et al., 89c:81078**
Raynal, J.-C. *see* **Le Yaouanc, A.; et al., 89b:81167**
Rebbi, Claudio *see* **Brower, Richard C.; et al., (89c:65005)**
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Scarpetta, G. *see* **Caianiello, Eduardo R.; et al., 89j:81138**
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Šijački, Djordje *see* **Ne'eman, Yuval, 89f:81257**
Smit, Jan (*with* Vink, Jeroen C.) Renormalized Ward-Takahashi relations and topological susceptibility with staggered fermions. **89b:81170**
Sokolov, M. A. *see* **Kulish, P. P., 89h:81094**
Solov'ev, M. A. On the geometry of classical mechanics with nonabelian gauge symmetry. (Russian. English summary) **89h:81123**
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— *see also* **Smit, Jan, 89b:81170**
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81G10 Electromagnetic interaction

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Andrianov, A. A. (*with* Ioffe, M. V.) Pauli fermions as components of $D = 2$ supersymmetrical quantum mechanics. **89c:81191**
Arodź, H. (*with* Ruijgrok, Th. W.) On a classical limit of the Dirac equation with an external electromagnetic field. I. Proper-time evolution, Lorentz covariant expectation values and classical equations of motion. **89d:81119**
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Flesher, G. I. *see* **Strokov, P. V., 89a:81166**
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Ioffe, M. V. *see* **Andrianov, A. A., 89c:81191**

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de Lange, O. L. (*with* Raab, R. E.) Coulomb problem in an angular-momentum basis: an algebraic formulation. **89f:81248**

Maekawa, Takayoshi *see* **Iwakiri, Takashi; et al., 89m:81188**

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Martinez, José Chan Phase factor for charge-monopole system. **89b:81242**

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Prokhorov, L. V. Quantization of the electromagnetic field. **89i:81142**

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Radyuk, A. F. (*with* Fedorov, F. I.) A polarizing scalar product in constant magnetic and electrical fields and in a plane wave field. (Russian. English summary) **89c:81193**

Rahal, V. *see* **Boudjema, F.; et al., 89k:81189**

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Römer, H. *see* **Dietz, Klaus P., 89f:81247**

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Savinkov, A. G. Scattering by a Dirac monopole in a global bundle space. **89i:81144**

Sitenko, Yu. A. Electron charge fractionization in a magnetic field in domains with boundaries. **89j:81251**

So, Hiroto *see* **Morozumi, Takuya, 89a:81165**

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Umeda, Tomio *see* **Nagase, Michihiro, 89d:81120**

Wali, Kameshwar *see* **Davidson, Aharon, 89i:81140**

Wang, K. C. *see* **Cutkosky, R. E., 89i:81139**

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Melek, M. *see* **Balek, V.; et al., 89b:83051**

Molzahn, F. H. *see* **Papież, L.; et al., 89c:81217**

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Mur, V. D. *see* **Vaĭnberg, V. M.; et al., 89h:81029**

Myhill, R. G. *see* **Hollowood, T. J., 89m:17041**

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Pēterkops, R. K. *see* **Liepiņš, A.,** (**89d:81002**)

Petráš, M. *see* **Balek, V.; et al., 89b:83051**

Ponomarev, I. V. *see* **Ternov, I. M.; et al., 89i:81056**

Popov, V. S. *see* **Vaĭnberg, V. M.; et al., 89h:81029**

Schmid, Christoph H. *see* **Isler, K.; et al., 89c:81132**

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— *see also* **Sokolov, A. A., 89b:81003**

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81G15 Weak interaction

Banks, Thomas (*with* Dixon, Lance J.; Friedan, D.; Martinec, Emil) Phenomenology and conformal field theory or can string theory predict the weak mixing angle? **89b:81244**

Chisholm, J. S. R. (*with* Farwell, R. S.) Electroweak spin gauge theories and the frame field. **89g:81104**

Dixon, Lance J. *see* **Banks, Thomas; et al., 89b:81244**

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(Delbourgo, R.) *see* **Kubo, Jisuke, 89e:81180** *and* **Kosiński, P., 89e:81181**

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(Thompson, George) *see* **Kubo, Jisuke, 89e:81180** *and* **Kosiński, P., 89e:81181**

81G20 Application of group theory to elementary particles, including grand unification and supersymmetry {For supergravity, see 83E50.}

Antoniadis, I. (*with* Ellis, Jonathan Richard; Hagelin, J. S.; Nanopoulos, D. V.) Cut model-building with fermionic four-dimensional strings. **89k:81190**

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Axenides, Minos *see* **Safian, Alex M.; et al., 89m:81192**

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Das, Anadijiban Relativistic bilocal lattice meson fields, divergence-free Green's functions and parton confinement. **89k:81191**

Da Silva, A. J. *see* **Gomes, Marcelo O. C.; et al., 89c:81196**

(Delbourgo, R.) *see* **Kubo, Jisuke, 89e:81180** *and* **Kosiński, P., 89e:81181**

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Horváth, Z. *see* **Balog, J.; et al., 89b:81245**

Huang, Chao Shang *see* **Zhang, Zhao Xi, 89m:81194**

Huang, Justin C. *see* **Sungar, Nilgun, 89c:81198**

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Kanada, Hiroyuki *see* **Otofuji, T.; et al., 89d:81123**

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Kielanowski, P. *see* **Bohm, Arno; et al., 89j:81254**

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Kugo, Taichiro *see* **Bando, Masako; et al., 89d:81121**

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Loewe, M. *see* **Bohm, Arno; et al., 89j:81254**

Lokhvitskiĭ, B. B. *see* **Ketov, S. V.; et al., 89b:81247**

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Morozov, A. Yu. *see* **Kogan, Ya. I.; et al., 89a:81171**

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Nanopoulos, D. V. *see* **Ellis, Jonathan Richard; et al., 89f:81252** *and* **Antoniadis, I.; et al., 89k:81190**

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Olive, K. A. *see* **Ellis, Jonathan Richard; et al., 89f:81252**

Ol'shanetskiĭ, M. A. *see* **Kogan, Ya. I.; et al., 89a:81171**

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Praschifka, J. *see* **Cahill, R. T.; et al., 89c:81195**

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Roberts, C. D. *see* **Cahill, R. T.; et al., 89c:81195**

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— *see also* **El Hassouni, A.; et al., 89b:81246**

Saito, Sakae *see* **Otofuji, T.; et al., 89d:81123**

Seki, R. *see* **Otofuji, T.; et al., 89d:81123**

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— *see also* **Kogan, Ya. I.; et al., 89a:81171**

Šijački, Djordje *see* **Ne'eman, Yuval, 89f:81257**

Sogami, Ikuo S. New algebraic unified theory of leptons and quarks. **89a:81172**

Sudbery, A. *see* **Chung, K.-W., 89a:81169**

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Szymanowski, Lech *see* **Kosiński, P., 89e:81181**

Thomas, Steven *see* **Bailin, David; et al., 89a:81167**

(Thompson, George) *see* **Kubo, Jisuke, 89e:81180** *and* **Kosiński, P., 89e:81181**

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Uematsu, Tsuneo *see* **Kobayashi, Ken-ichiro; et al., 89k:81192**

Vaĭnshteĭn, A. I. *see* **Shifman, M. A., (89f:81005)**

Vecsernyés, P. *see* **Balog, J.; et al., 89b:81245**

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Woit, Peter Supersymmetric quantum mechanics, spinors and the standard model. **89i:81146**

Xu, Bang Qing *see* **Shao, Chang Gui, 89k:81193**

Yamawaki, Koichi *see* **Bando, Masako; et al., 89d:81121**

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Zhao, Gang *see* **Luo, Liao Fu, 89f:81256**

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Boya, L. J. *see* **Bohm, Arno; et al., 89d:81038**

Braga, N. R. F. *see* **de Almeida da Silva, M. A.; et al., 89f:81126**

Bregola, M. *see* **Bonora, L.; et al., 89c:83050**

Brene, N. *see* **Bennett, D. L.; et al.,** (**89f:81005**)

(Brink, Lars) *see* **Unification of fundamental interactions, 89f:81005**

Brooks, Roger *see* **Gates, S. James, Jr.; et al., 89c:81123**

Butler, Philip H. *see* **Searle, Barry G., 89k:81046**

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Castell, L. (*with* Heidenreich, W.; Künemund, T.) All unitary irreducible representations of osp$(N, 4)$ with positive energy. **89k:17047**

Cecotti, S. (*with* Ferrara, S.; Villasante, M.) Linear multiplets and super Chern-Simons forms in 4D supergravity. **89f:83097**

Chamseddine, A. H. (*with* Derendinger, J.-P.; Quirós, M.) Nonsupersymmetric four-dimensional strings. **89k:81135**

Chang, Ngee-Pong (*with* Li, Da-Xi; Pérez-Mercader, Juan) Cosmological constant and asymmetric orbifolds. **89i:83055**

Chang, Y. F. *see* **Karliner, Marek; et al., 89e:81125**

Cheng, T. P. (*with* Li, Ling-Fong) Resource letter: GI-1 gauge invariance. **89e:81088**

Cohn, J. D. Modular geometry of superconformal field theory. **89m:32035**

Coquereaux, Robert (*with* Jadczyk, Arkadiusz Z.) ★ Riemannian geometry, fiber bundles, Kaluza-Klein theories and all that **89e:53108**

Cristofano, G. (*with* Maiella, G.; Musto, R.; Nicodemi, F.; Pettorino, R.) Twisted bosonic strings and O(16) ⊗ O(16) heterotic model. **89a:81120**

Cvetič, Gorazd (*with* Yan, Tung-Mow) Charge exchange scattering of charged gauge bosons by 't Hooft-Polyakov monopole. **89b:81121**

De Alfaro, V. (*with* Fubini, S.; Furlan, G.; Roncadelli, M.) Operator ordering and supersymmetry. **89d:81049**

Delbourgo, R. (*with* Henderson, Jenny Aline) The Grassmann Euclidean group $\mathrm{Sp}(2) \wedge T(2)$ and its representations. **89b:22029**

— (*with* Zhang, R. B.) Fermionic dimensions and Kaluza-Klein theory. **89b:81122**

Derendinger, J.-P. *see* **Chamseddine, A. H.; et al., 89k:81135**

Derrick, G. H. Complete orthonormal sets on the past light cone. I. Functions belonging to mass zero and helicity s. **89e:81066**

Deser, S. *see* **Aragone, C.; et al., 89b:81113**

Distler, Jacques (*with* Greene, Brian R.; Kirklin, Kelley H.; Miron, Paul) Evaluation of $\overline{27}^3$ Yukawa couplings in a three-generation superstring model. **89c:81114**

Domokos, G. Loop algebras and composite structures. (*see* **89a:81005**)

(Dunlop, François) *see* **Falkenburg, Brigitte**, (Not in MR)

Dupont, Patrick Jean *see* **Bollé, D.; et al., 89d:81032**

El Hassouni, A. (*with* Lhallabi, T.; Oudrhiri-Safiani, E. G.; Saidi, E. H.) $N = 2$ SQED model in harmonic superspace. **89c:81116**

Ellis, Jonathan Richard Superstring phenomenology. (*see* **89f:81005**)

Falkenburg, Brigitte The unifying role of symmetry principles in particle physics. (Not in MR)

Felder, G. (*with* Gawędzki, K.; Kupiainen, A.) The spectrum of Wess-Zumino-Witten models. **89c:22031**

Feng, Da-hsuan *see* **Zhang, Wei Min; et al., 89j:81078**

Ferrara, S. *see* **Aragone, C.; et al., 89b:81113** *and* **Cecotti, S.; et al., 89f:83097**

FitzGerald, P. Constrained dynamics and the local symmetries of the massive superparticle. **89j:81176**

Fitzsimmons, Sean (*with* McGlinn, W. D.) Properties of some self-dual monopoles. **89a:81072**

Flato, M. (*with* Fronsdal, Christian) Singletons: fundamental gauge theory. **89h:81143**

Font, A. (*with* Ibáñez, L. E.; Nilles, H. P.; Quevedo, F.) Degenerate orbifolds. **89j:81179a**

— (*with* Ibáñez, L. E.; Nilles, H. P.; Quevedo, F.) Erratum: "Degenerate orbifolds". **89j:81179b**

— (*with* Ibáñez, L. E.; Nilles, H. P.; Quevedo, F.) Yukawa couplings in degenerate orbifolds: towards a realistic SU(3) × SU(2) × U(1) superstring. **89m:81139a**

— (*with* Ibáñez, L. E.; Nilles, H. P.; Quevedo, F.) Errata: "Yukawa couplings in degenerate orbifolds: towards a realistic SU(3) × SU(2) × U(1) superstring". **89m:81139b**

Foot, R. (*with* Joshi, G. C.) On a certain supersymmetric identity and the division algebras. **89i:17003**

Fronsdal, Christian *see* **Flato, M., 89h:81143**

Fubini, S. *see* **De Alfaro, V.; et al., 89d:81049**

Furlan, G. *see* **De Alfaro, V.; et al., 89d:81049**

Gal′perin, A. S. (*with* Ivanov, Evgeniĭ Alekseevich^2; Ogievetskiĭ, V. I.) Superspace actions and duality transformations for $N = 2$ tensor multiplets. (*see* **89f:81005**)

— *see also* **Bagger, J. A.; et al., 89h:81097**

Gates, S. James, Jr. Unidexterous superconformal theories. **89e:81145**

— (*with* Brooks, Roger; Muhammad, Fuad) Unidexterous superspace: the flax of (super)strings. **89c:81123**

Gatto, Raoul (*with* Sartori, G.) Consequences of the complex character of the internal symmetry in supersymmetric theories. **89a:81042**

Gawędzki, K. *see* **Felder, G.; et al., 89c:22031**

Geng, Chaoqiang *see* **Okubo, Susumu; et al., 89d:81067**

Greene, Brian R. (*with* Kirklin, Kelley H.) On the equivalence of the two most favoured Calabi-Yau compactifications. **89b:32017**

— *see also* **Distler, Jacques; et al., 89c:81114**

Grundland, A. M. *see* **Winternitz, P.; et al., 89c:35145**

Gürsey, Feza Super Poincaré groups and division algebras. **89b:17003**

Harada, Koji (*with* Shizuya, Ken-ichi) Supersymmetric axial anomalies and the Wess-Zumino action. **89e:81090**

Hari Dass, N. D. The statistical mechanics–particle physics correspondence. **89g:82016**

Harvey, Jeffrey A. Minimal conformal models and string compactification. **89i:81112**

Heidenreich, W. *see* **Castell, L.; et al., 89k:17047**

Henderson, Jenny Aline *see* **Delbourgo, R., 89b:22029**

Henkel, Malte (*with* Patkós, András) Conformal invariance and line defects in the two-dimensional Ising model. **89c:82068**

Ibáñez, L. E. *see* **Font, A.; et al., 89j:81179a; 89j:81179b; 89m:81139a** *and* **89m:81139b**

Ikemori, Hitoshi Superfield formulation of relativistic superparticle. **89b:81074**

Ingermanson, Randall *see* **Aratyn, Henrik; et al., 89a:81110** *and* **89a:81111**

Ioffe, M. V. *see* **Andrianov, A. A.; et al., 89a:81160**

Istomina, I. F. *see* **Tolstoĭ, V. N.; et al., 89c:17037**

Ivanov, Evgeniĭ Alekseevich^2 *see* **Bagger, J. A.; et al., 89h:81097** *and* **Gal′perin, A. S.; et al.,** (**89f:81005**)

Jadczyk, Arkadiusz Z. *see* **Coquereaux, Robert, 89e:53108**

Joshi, G. C. *see* **Foot, R., 89i:17003**

Kao, W. F. (*with* Park, Q-Han; Schnitzer, Howard J.) Low energy effective action, to two-loop order, for strings on a group manifold, from compactification of closed Bose strings. **89b:81129**

Karkowski, J. Supersymmetric electric and magnetic monopoles. **89b:81130**

Karliner, Marek (*with* Sharpe, Stephen R.; Chang, Y. F.) Zeroing in on SU(3). **89e:81125**

Kavalov, An. R. (*with* Mkrtchyan, R. L.) Lagrangian for the self-duality equation and $d = 10$, $N = 2$b supergravity. **89d:83074**

Kerbrat, Yvan (*with* Kerbrat-Lunc, Hélène) Géométrie et physique. Les outils de la géométrie différentielle dans les théories de jauge de la physique. (English summary) [Geometry and physics. The tools of differential geometry in the gauge theories of physics] **89m:53135**

Kerbrat-Lunc, Hélène *see* **Kerbrat, Yvan, 89m:53135**

Ketov, S. V. (*with* Lokhvitskiĭ, B. B.) Some generalisations of $N = 2$ Yang-Mills matter couplings. **89c:81075**

— Three-loop finiteness of the two-dimensional supersymmetric nonlinear σ-models on generalized Ricci-flat manifolds with torsion. **89m:81106**

Khovanova, T. G. The Korteweg-de Vries superequation connected with the Lie superalgebra of Neveu-Schwarz-2 string theory. (Russian. English summary) **89j:58047**

Kimura, Tadahiko *see* **Oda, Ichiro; et al., 89j:81080**

Kirklin, Kelley H. *see* **Greene, Brian R., 89b:32017** *and* **Distler, Jacques; et al., 89c:81114**

Kmiecik, M. *see* **Bohm, Arno; et al., 89d:81038**

Konishi, Kenichi (*with* Magnoli, N.; Panagopoulos, H.) Spontaneous breaking of local supersymmetry by gravitational instantons. **89j:83088**

— *see also* **Amati, D.; et al., 89j:81094**

Kontsevich, M. L. The Virasoro algebra and Teichmüller spaces. (Russian) **89a:17022**

Kotcheff, A. C. W. (*with* Shore, G. M.) Complex symmetries, the SQCD vacuum and supersymmetric vacuum alignment. **89c:81189**

Krasnikov, N. V. (*with* Rozhanskiĭ, L. V.) Structure of the low-energy superpotential in superstring theories. **89e:81156**

Kubyshin, Yu. A. *see* **Volobuev, I. P.,** (**89d:81001**)

Künemund, T. *see* **Castell, L.; et al., 89k:17047**

Kupiainen, A. *see* **Felder, G.; et al., 89c:22031**

Kwon, P. (*with* Villasante, M.) Casimir operators for massless representations of the super-Poincaré algebra and the reduction of the ten-dimensional massless scalar superfield. **89j:17005**

Lazarides, G. (*with* Shafi, Q.) Matter parities in three-generation superstring models. **89j:81196**

Lechner, K. *see* **Bonora, L.; et al., 89c:83050**

Lerche, W. (*with* Nilsson, B. E. W.; Schellekens, A. N.) Covariant lattices, superconformal invariance and strings. **89e:81159**

Lhallabi, T. (*with* Saidi, E. H.) The $(4, 0)$ and $(4, 4)$ supersymmetric nonlinear σ-models in the $D = 2$ harmonic superspace. **89a:81096**

— (*with* Saidi, E. H.) Two-dimensional untwisted $(4, 4)$, twisted $(4, \overline{4})$ and chiral supersymmetric nonlinear σ-models. **89h:81114**

— *see also* **El Hassouni, A.; et al., 89c:81116**

Li, Da-Xi *see* **Chang, Ngee-Pong; et al., 89i:83055**

Li, Ling-Fong *see* **Cheng, T. P., 89e:81088**

Ling, Yin Sheng Dynkin's embedding method and subalgebra chains of U(6) ⊃ SU(3). **89h:22045**

Lokhvitskiĭ, B. B. *see* **Ketov, S. V., 89c:81075**

Lucchesi, Claudio (*with* Piguet, O.; Sibold, K.) Vanishing β-functions in $N = 1$ supersymmetric gauge theories. **89m:81108**

Lukierski, J. Supersymmetric extension of twistor formalism. **89a:58009**
— Holomorphic and real Euclidean supersymmetries in three and four dimensions. **89c:81048**
— (*with* Nowicki, Anatol) General superspaces from supertwistors. **89j:81084**
Lynker, Monika (*with* Schimmrigk, Rolf) Heterotic string compactification on $N=2$ superconformal theories with $c=9$. **89h:81212**
MacKenzie, R. Topological structures on domain walls. **89i:81072**
Magnoli, N. *see* **Konishi, Kenichi; et al., 89j:83088**
Maiella, G. *see* **Cristofano, G.; et al., 89a:81120**
Mansouri, Freydoon (*with* Wu, Xi Zeng) Free fermion and parafermion theories in two dimensions. **89g:81049**
(Marnelius, R.) *see* **Unification of fundamental interactions, 89f:81005**
Marshak, R. E. *see* **Okubo, Susumu; et al., 89d:81067**
Martens, Craig C. *see* **Zhang, Wei Min; et al., 89j:81078**
McGlinn, W. D. *see* **Fitzsimmons, Sean, 89a:81072**
McInnes, Brett Superstrings and holonomy groups of Kähler manifolds. **89h:53132**
Meurice, Y. *see* **Amati, D.; et al., 89j:81094**
Miron, Paul *see* **Distler, Jacques; et al., 89c:81114**
Mkrtchyan, R. L. *see* **Kavalov, An. R., 89d:83074**
Muhammad, Fuad *see* **Gates, S. James, Jr.; et al., 89c:81123**
Müller-Kirsten, H. J. W. (*with* Wiedemann, A.) ★ Supersymmetry. **89j:81001**
Musto, R. *see* **Cristofano, G.; et al., 89a:81120**
Nakamura, Atsushi *see* **Oda, Ichiro; et al., 89j:81080**
Neuberger, Herbert Soft pions in large boxes. **89e:81094**
Nicodemi, F. *see* **Cristofano, G.; et al., 89a:81120**
Nielsen, Holger Bech *see* **Bennett, D. L.; et al., (89f:81005)**
Niemi, Antti J. *see* **Aratyn, Henrik; et al., 89a:81110** *and* **89a:81111**
Nilles, H. P. *see* **Font, A.; et al., 89j:81179a; 89j:81179b; 89m:81139a** *and* **89m:81139b**
Nilsson, B. E. W. *see* **Lerche, W.; et al., 89e:81159**
(Nilsson, Jan S.) *see* **Unification of fundamental interactions, 89f:81005**
Novikov, V. A. Supersymmetric instanton calculus (gauge theories with matter fields in an arbitrary group). **89f:81104**
Nowicki, Anatol Strange superalgebras and description of nonrelativistic spin. **89c:81065**
— *see also* **Lukierski, J., 89j:81084**
Oda, Ichiro (*with* Kimura, Tadahiko; Nakamura, Atsushi) Superparticles and division algebras—ten dimensions and octonions. **89j:81080**
Ogievetskiĭ, V. I. *see* **Bagger, J. A.; et al., 89h:81097** *and* **Gal′perin, A. S.; et al., (89f:81005)**
Okubo, Susumu (*with* Geng, Chaoqiang; Marshak, R. E.; Zhao, Zhi Yong) Conditions for absence of global SU(2) anomaly for four-dimensional gauge groups. **89d:81067**
— *see also* **Zhang, Huazhong; et al., 89d:81071**
Oudhiri-Safiani, E. G. *see* **El Hassouni, A.; et al., 89c:81116**
Pal′chik, M. Ya. Conformal invariance in quantum nonabelian gauge field theory. **89g:81050**
Panagopoulos, H. (*with* Vinet, Luc) Superinvariant chiral and vector fields. **89e:81168**
— *see also* **Konishi, Kenichi; et al., 89j:83088**
Park, Q-Han *see* **Kao, W. F.; et al., 89b:81129**
Pasti, P. *see* **Bonora, L.; et al., 89c:83050**
Patkós, András *see* **Henkel, Malte, 89c:82068**
Pérez-Mercader, Juan *see* **Chang, Ngee-Pong; et al., 89i:83055**
Pettorino, R. *see* **Cristofano, G.; et al., 89a:81120**
Piguet, O. *see* **Lucchesi, Claudio; et al., 89m:81108**
Polarski, D. *see* **Casher, A., 89g:83053**
Polychronakos, Alexios P. Symmetry-breaking patterns in $(2+1)$-dimensional gauge theories. **89d:81052**
Pope, C. N. (*with* Stelle, K. S.) The Witten index for the supermembrane. **89k:83073**
Popov, A. D. Spontaneous compactification of $d=11$ supergravity due to Rarita-Schwinger fields. (Russian. English summary) **89d:83076**
Quevedo, F. *see* **Font, A.; et al., 89j:81179a; 89j:81179b; 89m:81139a** *and* **89m:81139b**
Quirós, M. *see* **Chamseddine, A. H.; et al., 89k:81135**
Restuccia, A. (*with* Taylor, John G.) Constructing the superstring space-time SUSY algebra in the light-cone gauge. **89j:81214**
Roekaerts, D. *see* **Bollé, D.; et al., 89d:81032**
Roncadelli, M. *see* **De Alfaro, V.; et al., 89d:81049**
de Roo, M. (*with* Steringa, J. J.) Absence of mass renormalisation in supersymmetric QED in two and three dimensions. (Not in MR)
Rossi, G. C. *see* **Amati, D.; et al., 89j:81094**
Rozhanskiĭ, L. V. *see* **Krasnikov, N. V., 89e:81156**
Rudolph, Gerd Remarks on the problem of lifting spacetime symmetries. **89b:81142**
Saidi, E. H. *see* **Lhallabi, T., 89a:81096; El Hassouni, A.; et al., 89c:81116** *and* **Lhallabi, T., 89h:81114**
(Salomonson, Per) *see* **Unification of fundamental interactions, 89f:81005**
Sartori, G. *see* **Gatto, Raoul, 89a:81042**
Schellekens, A. N. *see* **Lerche, W.; et al., 89e:81159**
Schimmrigk, Rolf *see* **Lynker, Monika, 89h:81212**
Schnitzer, Howard J. *see* **Kao, W. F.; et al., 89b:81129**
Searle, Barry G. (*with* Butler, Philip H.) Recursive calculation of transformation factors in terms of primitive factors. **89k:81046**
Seiberg, Nathan Supersymmetry and nonperturbative beta functions. **89k:81095**
Shafi, Q. *see* **Lazarides, G., 89j:81196**
Sharpe, Stephen R. *see* **Karliner, Marek; et al., 89e:81125**
Shizuya, Ken-ichi *see* **Harada, Koji, 89e:81090**
Shore, G. M. *see* **Kotcheff, A. C. W., 89c:81189**
Sibold, K. *see* **Lucchesi, Claudio; et al., 89m:81108**
(Skagerstam, Bo-Sture) *see* **Unification of fundamental interactions, 89f:81005**
Smirnov, Yu. F. *see* **Tolstoĭ, V. N.; et al., 89c:17037**
Solomon, S. New canonical covariant formalism for the $N=2, D=10$ superparticle. **89f:81212**
Sorokin, D. P. *see* **Akulov, V. P.; et al., 89i:81064**
Sotkov, G. (*with* Stanishkov, M.) Yukawa couplings for the three-generation string model. **89k:81173a**
— (*with* Stanishkov, M.) Erratum: "Yukawa couplings for the three-generation string model". **89k:81173b**
Stanishkov, M. *see* **Sotkov, G., 89k:81173a** *and* **89k:81173b**
Stelle, K. S. *see* **Pope, C. N., 89k:83073**
Steringa, J. J. *see* **de Roo, M.,** (Not in MR)
Taylor, John G. *see* **Restuccia, A., 89j:81214**
Taylor, T. R. Model building on asymmetric Z_3 orbifolds: nonsupersymmetric models. **89h:81237**
Tolstoĭ, V. N. (*with* Istomina, I. F.; Smirnov, Yu. F.) The Gel′fand-Tseĭtlin basis for the Lie superalgebra gl(n/m). **89c:17037**
Tonin, M. *see* **Bonora, L.; et al., 89c:83050**
Torresani, Bruno Unitary positive energy representations of the gauge group. **89a:22037**
Tosa, Y. *see* **Zhang, Huazhong; et al., 89d:81071**
Tuszyński, J. A. *see* **Winternitz, P.; et al., 89c:35145**
Uehara, Shozo (*with* Yasui, Yukinori) A superparticle on the "super" Poincaré upper half plane. **89g:81031**
Vasil′ev, M. A. Extended higher-spin superalgebras and their realizations in terms of quantum operators. **89d:81129**
Veneziano, G. *see* **Amati, D.; et al., 89j:81094**
Villasante, M. *see* **Cecotti, S.; et al., 89f:83097** *and* **Kwon, P., 89j:17005**
Vinet, Luc *see* **Panagopoulos, H., 89e:81168**
Viswanathan, K. S. (*with* Zhou, Xiaoan) (Oriented) smooth strings on genus-one surface. **89j:81226**
Volobuev, I. P. (*with* Kubyshin, Yu. A.) Higgs models generated by symmetric spaces. (Russian) (*see* **89d:81001**)
Wess, Julius *see* **Bagger, J. A., 89a:81060**
West, Peter The regulation of supersymmetric theories and anomalies in the supercurrent. **89e:81112**
Wiedemann, A. *see* **Müller-Kirsten, H. J. W., 89j:81001**
Winternitz, P. (*with* Grundland, A. M.; Tuszyński, J. A.) Exact solutions of the multidimensional classical φ^6-field equations obtained by symmetry reduction. **89c:35145**
Wu, Xi Zeng *see* **Mansouri, Freydoon, 89g:81049**
Yan, Tung-Mow *see* **Cvetič, Gorazd, 89b:81121**
Yasui, Yukinori *see* **Uehara, Shozo, 89g:81031**
Yuan, Jian Min *see* **Zhang, Wei Min; et al., 89j:81078**
Zhang, Huazhong (*with* Okubo, Susumu; Tosa, Y.) Global gauge anomalies for simple Lie algebras. **89d:81071**
Zhang, R. B. *see* **Delbourgo, R., 89b:81122**
Zhang, Wei Min (*with* Martens, Craig C.; Feng, Da-hsuan; Yuan, Jian Min) Dynamical symmetry breaking and quantum nonintegrability. **89j:81078**
Zhao, Zhi Yong *see* **Okubo, Susumu; et al., 89d:81067**
Zheltukhin, A. A. On a para-Grassmann extension of the Neveu-Schwarz-Ramond algebra. (Russian. English summary) **89c:81176**
Zhou, Xiaoan *see* **Viswanathan, K. S., 89j:81226**
Zimmermann, Wolfhart Applications of the reduction method. (Russian summary) **89h:81139**
Zupnik, B. M. Extended conformal supergravity in chiral superspace. **89m:83097**
— On the solutions of SU(2)/U(1) harmonic equations in the gauge theories. **89m:81102**

Items listed otherwise than by author

Marstrand ★ Unification of fundamental interactions. **89f:81005**
Symposium:
  Unification of Fundamental Interactions ★ Unification of fundamental interactions. **89f:81005**
Unification of fundamental interactions ★ Unification of fundamental interactions. **89f:81005**

81G25 Other elementary particle theory

Bohm, Arno (*with* Boya, L. J.; Kielanowski, P.; Kmiecik, M.; Loewe, M.; Magnollay, P.) Theory of relativistic extended objects. **89c:81199**
Boya, L. J. *see* **Bohm, Arno; et al., 89c:81199**
Caianiello, Eduardo R. (*with* Guz, W.) The Dirac-like equation in phase space and baryon mass spectrum. (Italian and Russian summaries) **89f:81258**
Chang, Lay-Nam (*with* Chang, Ngee-Pong) Renormalisation programme and dynamical symmetry breaking. (*see* **89b:81008**)
Chang, Ngee-Pong *see* **Chang, Lay-Nam, (89b:81008)**
Delamotte, B. (*with* Ouvry, S.) Generalised Fayet-Sohnius hypermultiplet. (Not in MR)
Dullemond, C. Quarks and gluons in a model with induced geometry. (Not in MR)
Ellis, Jonathan Richard Superstring phenomenology. (*see* **89f:81005**)
— (*with* Enqvist, K.; Kalara, S.; Nanopoulos, D. V.; Olive, K. A.) Phenomenological studies of rank-5 Calabi-Yau models. **89f:81259**
Enqvist, K. *see* **Ellis, Jonathan Richard; et al., 89f:81259**
Gudder, Stanley P. Finite model for particles. **89j:81257**
Guz, W. *see* **Caianiello, Eduardo R., 89f:81258**
Iroshnikov, G. S. On the nonperturbative calculation of hadron field correlators. (Russian) (*see* **89d:81001**)
Ito, Kei Quark lepton mass matrices in string theory on orbifolds. (*see* **89a:81005**)
Jiang, Chun Xuan A mathematical model for particle classification. (Not in MR)
— Nonlinear dynamics in Santilli's eletonic model of hadronic structure. (Not in MR)
Kalara, S. *see* **Ellis, Jonathan Richard; et al., 89f:81259**
Kielanowski, P. *see* **Bohm, Arno; et al., 89c:81199**
Kmiecik, M. *see* **Bohm, Arno; et al., 89c:81199**
Loewe, M. *see* **Bohm, Arno; et al., 89c:81199**
Magnollay, P. *see* **Bohm, Arno; et al., 89c:81199**
Mohapatra, Rabindra Nath Yukawa couplings and phenomenological profile of a three generation superstring model. (*see* **89a:81005**)
Nanopoulos, D. V. *see* **Ellis, Jonathan Richard; et al., 89f:81259**
Nikolaenko, V. M. Pseudoparticle models with gravitational topological charge. (Russian) (*see* **89d:81001**)

Olive, K. A. *see* **Ellis, Jonathan Richard; et al., 89f:81259**

Ouvry, S. *see* **Delamotte, B.**, (Not in MR)

Salam, A. Overview of particle physics. (*see* **89m:01069**)

Satikov, I. A. (*with* Strazhev, V. I.) Two types of Dirac fields and a geometric model of lepton generation. (Russian) (*see* **89d:81002**)

— (*with* Strazhev, V. I.) The laws of conservation in Dirac-Kähler theory. (Russian) (*see* **89d:81002**)

Shaposhnikov, M. E. Structure of the high temperature gauge ground state and electroweak production of the baryon asymmetry. **89c:81200**

Strazhev, V. I. *see* **Satikov, I. A.**, (**89d:81002**) *and* (**89d:81002**)

Walton, Mark A. Heterotic string on the simplest Calabi-Yau manifold and its orbifold limits. **89g:81106**

Winterberg, F. Substratum approach to a unified theory of elementary particles. (Not in MR)

Yasuda, Osamu Factorization of a two-loop four-point superstring amplitude. **89j:81258a**

— Erratum: "Factorization of a two-loop four-point superstring amplitude". **89j:81258b**

Items with secondary classifications in 81G25

Ambjørn, Jan (*with* Durhuus, Bergfinnur; Fröhlich, Jürg; Jónsson, Thórdur) Regularized strings with extrinsic curvature. **89b:81164**

Aragone, C. Stringy characteristics of effective gravity. **89d:83035**

Aratyn, Henrik (*with* Ingermanson, Randall; Niemi, Antti J.) Interacting field theory of relativistic point particles. **89c:81100**

Aref'eva, I. Ya. (*with* Volovich, I. V.; Dragović, B. G.) Spontaneous reduction in multidimensional ($D = 10, 11$) theories of supergravity with arbitrary signature. (Russian. English summary) **89c:83049**

Arodź, H. Lagrangian and Hamiltonian formulations of dynamics of classical particles with spin and colour. **89k:70038**

Auberson, G. On the reconstruction of a unitary matrix from its moduli. Existence of continuous ambiguities. **89m:15014**

Babul, Arif (*with* Piran, Tsvi; Spergel, David N.) Bosonic superconducting cosmic strings. I. Classical field theory solutions. **89b:83098**

Bershadskiĭ, M. A. Off-shell string amplitudes and singular states in bosonic string theory. **89b:81174**

Bilal, Adel (*with* Gervais, Jean-Loup) Modular invariance for closed strings at the new critical dimensions. **89a:81113**

Borneas, M. On a nonlinear equation. (Romanian summary) **89g:81035a**

— Comments on a nonlinear equation. (Romanian summary) **89g:81035b**

von Borzeszkowski, Horst-Heino (*with* Treder, H.-J.) ★ The meaning of quantum gravity. **89g:83024**

Bowick, M. J. (*with* Giddings, Steven B.; Harvey, Jeffrey A.; Horowitz, Gary T.; Strominger, Andrew) Axionic black holes and an Aharonov-Bohm effect for strings. **89j:83045**

Brown, J. David (*with* Teitelboim, Claudio) Neutralization of the cosmological constant by membrane creation. **89d:83081**

Bugajska, Krystyna Some properties of topological geons. **89a:83055**

Bukhbinder, I. L. (*with* Odintsov, S. D.) Effective action in multidimensional supergravity theories and the induction of Einstein gravity. **89b:83093**

Cadoni, M. $N = 1$ supergravity models based on noncompact Hermitian symmetric coset spaces. **89g:83052**

Calucci, Giorgio Effective Lagrangian for low-lying states of interacting bosonic strings. **89f:81162**

Casas, J. A. (*with* Muñoz, C.) Inflation from superstrings. **89m:83099**

Cecotti, S. (*with* Ferrara, S.; Girardello, L.; Pasquinucci, A.; Porrati, Massimo) Matter-coupled supergravity with Gauss-Bonnet invariants: component Lagrangian and supersymmetry breaking. **89j:83072**

Cederwall, M. Interactions in new string theories. **89a:81119**

Chang, Ngee-Pong (*with* León, Juan; Pérez-Mercader, Juan) $\mathrm{STr}M^2$ sum rule for a general class of Kähler potentials. **89e:83068**

Chen, Qi Zhou *see* **Guo, Shuo Hong; et al.**, (Not in MR)

Chen, Yi Xin (*with* Yue, Rui Hong; Zhang, Yao Zhong) Chiral Jacobian and Wess-Zumino-Witten term in the hybrid chiral bag model. **89d:81089**

— *see also* **Hou, Bo Yu; et al., 89k:81146**

Clarizia, A. (*with* Pezzella, F.) N-reggeon vertex for the Neveu-Schwarz string. **89c:81109**

Collins, John C. ★ Перенормировка. (Russian) [Renormalization] **89d:81072**

Copeland, E. (*with* Haws, D.; Kibble, T. W. B.; Mitchell, David; Turok, Neil) Monopoles connected by strings and the monopole problem. **89b:83100**

Cvijanović, R. (*with* Ljolje, K.) On the dual symmetrical theory of the complex vector field. (Serbo-Croatian summary) **89i:81108**

Deruelle, Nathalie Cosmologies primordiales, leur variété, leurs constraintes. (English summary) [Primordial cosmologies, their variety, their constraints] **89f:83113**

Díaz Bejarano, J. (*with* Miró Rodríguez, C.) Evaporation of nonzero rest mass particles from a black hole. **89f:83062**

Domenech, G. (*with* Levinas, M. L.; Umerez, N.) Low energy effects in supergravity. **89e:83082**

Dragović, B. G. *see* **Aref'eva, I. Ya.; et al., 89c:83049**

Durhuus, Bergfinnur *see* **Ambjørn, Jan; et al., 89b:81164**

Efimov, G. V. Nonlocal quantum field theory and particle physics. **89h:81180**

Fayet, Pierre Supersymmetric theories of particles and interactions. (*see* **89f:81005**)

Ferrara, S. Scalar potentials in extended supergravities. **89h:83038**

— *see also* **Cecotti, S.; et al., 89j:83072**

Fradkin, E. S. (*with* Vasil'ev, M. A.) Candidate for the role of higher-spin symmetry. **89h:81085**

Fröhlich, Jürg *see* **Ambjørn, Jan; et al., 89b:81164**

Gates, S. James, Jr. (*with* Lu, Liang; Oerter, Robert N.) Simplified SU(2) spinning string superspace supergravity. **89m:83094**

Gervais, Jean-Loup *see* **Bilal, Adel, 89a:81113**

Giddings, Steven B. *see* **Bowick, M. J.; et al., 89j:83045**

Girardello, L. $N = 1$ supergravity from extended supergravity and from superstring theories. **89b:83094**

— *see also* **Cecotti, S.; et al., 89j:83072**

Girardi, G. (*with* Grimm, Richard) Chern-Simons forms and four-dimensional $N = 1$ superspace geometry. **89c:81124**

Gleiser, Marcelo (*with* Holman, Richard; Neto, Nelson P.) First order formalism for quantum gravity. **89d:83036**

Grimm, Richard *see* **Girardi, G., 89c:81124**

Gross, David J. (*with* Mende, Paul F.) The high-energy behavior of string scattering amplitudes. **89c:81187**

Grundland, A. M. *see* **Winternitz, P.; et al., 89c:35145**

Guo, Shuo Hong (*with* Chen, Qi Zhou; Liu, Jin Ming[1]) The improved Hamiltonian and ρ-ω mass difference in lattice gauge theory. (Not in MR)

Harvey, Jeffrey A. *see* **Bowick, M. J.; et al., 89j:83045**

Hawking, S. W. Who's afraid of (higher derivative) ghosts? (*see* **89b:81008**)

Haws, D. *see* **Copeland, E.; et al., 89b:83100**

Hill, Christopher T. (*with* Hodges, Hardy M.; Turner, Michael S.) Bosonic superconducting cosmic strings. **89f:83116**

Hodges, Hardy M. *see* **Hill, Christopher T.; et al., 89f:83116**

Holman, Richard *see* **Gleiser, Marcelo; et al., 89d:83036**

't Hooft, G. On the factorization of universal poles in a theory of gravitating point particles. **89j:83039**

Horowitz, Gary T. *see* **Bowick, M. J.; et al., 89j:83045**

Hou, Bo Yu (*with* Chen, Yi Xin; Zhang, Yao Zhong) Cohomological analysis in Skyrme model and boundary effect of chiral bag model. **89k:81146**

van Hove, L. Negative binomial multiplicity distributions in continuous domains. **89d:60014**

Husain, Viqar The $G_N \to \infty$ limit of quantum gravity. **89f:83057**

Ingermanson, Randall *see* **Aratyn, Henrik; et al., 89c:81100**

Inoue, Kazuhiko (*with* Odaka, Kazuhiko; Omote, Minoru) Infinite number of conserved quantities and extended conformal algebra in the Thirring model. **89b:81195**

Intissar, Abdelkader Étude spectrale d'une famille d'opérateurs non-symétriques intervenant dans la théorie des champs de reggeons. (English summary) [Study of the spectrum of a family of nonsymmetric operators arising in reggeon field theory] **89k:81032**

Jacobson, Ted (*with* Smolin, Lee) Nonperturbative quantum geometries. **89g:83027**

Jannussis, A. D. (*with* Vavougios, D.; Leodaris, A.) Q-model in high energy physics. **89c:81059**

Jónsson, Thórdur *see* **Ambjørn, Jan; et al., 89b:81164**

Kibble, T. W. B. *see* **Copeland, E.; et al., 89b:83100**

Knizhnik, V. G. (*with* Polyakov, A. M.; Zamolodchikov, Aleksandr B.) Fractal structure of 2D-quantum gravity. **89i:83039**

Krasnikov, N. V. Infinite component field theory as a key to the solution of the gauge hierarchy problem. **89j:81129**

Kuperin, Yu. A. (*with* Makarov, K. A.; Pavlov, B. S.) Model of resonance scattering of compound particles. (Russian. English summary) **89m:81182**

Kurdgelaidze, D. F. ★ Специфика решений нелинейных уравнений теории поля. (Russian) [Specifics of the solutions of nonlinear equations in field theory] **89f:81034**

— ★ Специфика решений нелинейных уравнений теории поля и вопросы их приложения. (Russian) [Specifics of the solutions of nonlinear equations in field theory and problems of their application] **89f:81035**

Laflamme, R. The Euclidean vacuum: justification from quantum cosmology. **89a:83037**

Leodaris, A. *see* **Jannussis, A. D.; et al., 89c:81059**

León, Juan *see* **Chang, Ngee-Pong; et al., 89e:83068**

Levinas, M. L. *see* **Domenech, G.; et al., 89e:83082**

Liu, Jin Ming[1] *see* **Guo, Shuo Hong; et al.**, (Not in MR)

Ljolje, K. *see* **Cvijanović, R., 89i:81108**

Lu, Liang *see* **Gates, S. James, Jr.; et al., 89m:83094**

Macías, A. (*with* Obregón, O.; Ryan, Michael P., Jr.) Quantum cosmology: the supersymmetric square root. **89a:83038**

Maeda, Kei-ichi Our universe as an attractor in a superstring model. **89e:83091**

Mahato, P. $N = 1$ dilatation supergravity. **89f:83102**

Makarov, K. A. *see* **Kuperin, Yu. A.; et al., 89m:81182**

Manton, N. S. Monopole and skyrmion bound states. **89h:81255**

Mende, Paul F. *see* **Gross, David J., 89c:81187**

Miró Rodríguez, C. *see* **Díaz Bejarano, J., 89f:83062**

Mitchell, David *see* **Copeland, E.; et al., 89b:83100**

Muñoz, C. *see* **Casas, J. A., 89m:83099**

Myers, Robert C. New dimensions for old strings. **89c:81088**

Ne'eman, Yuval Search for the equation of an infinite-component world-spinor field. **89e:81072**

Neto, Nelson P. *see* **Gleiser, Marcelo; et al., 89d:83036**

Neveu, A. (*with* West, Peter) Neveu-Schwarz excited string scattering: a superconformal group computation. **89d:81106**

Niemi, Antti J. *see* **Aratyn, Henrik; et al., 89c:81100**

Obregón, O. *see* **Macías, A.; et al., 89a:83038**

Odaka, Kazuhiko *see* **Inoue, Kazuhiko; et al., 89b:81195**

Odintsov, S. D. *see* **Bukhbinder, I. L., 89b:83093**

Oerter, Robert N. *see* **Gates, S. James, Jr.; et al., 89m:83094**

Omote, Minoru *see* **Inoue, Kazuhiko; et al., 89b:81195**

Pasquinucci, A. *see* **Cecotti, S.; et al., 89j:83072**

Pavlov, B. S. *see* **Kuperin, Yu. A.; et al., 89m:81182**

Pérez-Mercader, Juan *see* **Chang, Ngee-Pong; et al., 89e:83068**

Pezzella, F. *see* **Clarizia, A., 89c:81109**

Piran, Tsvi *see* **Babul, Arif; et al., 89b:83098**

Pitkänen, Matti Juhani Topological geometrodynamics. (German summary) **89m:83089**

Polyakov, A. M. *see* **Knizhnik, V. G.; et al., 89i:83039**

Popov, A. D. Chiral fermions in $N = 2$, $d = 10$ supergravity with additional time dimensions. **89f:83105**

— Chiral fermions in $d = 11$ supergravity with additional time-like dimensions. **89k:83080**

Porrati, Massimo *see* **Cecotti, S.; et al., 89j:83072**

Reuter, M. Consistent interaction for infinitely many massless spin-two fields by dimensional reduction. **89g:83047**

Rusjan, Edmond (*with* Senjanović, Goran) Honest symmetries and complex structures of the three-generation superstring model. **89i:53057**

Ryan, Michael P., Jr. *see* **Macías, A.; et al., 89a:83038**

Sannan, Sigurd Heuristic derivation of the probability distributions of particles emitted by a black hole. **89d:83044**

Scheurich, H. Principles of quaternionic vacuum thermodynamics and a unified gravistrong interaction model. (German summary) **89i:83065**

Schmutzer, Ernst Projective relativity and quantum fields. **89e:83066**

Senjanović, Goran *see* **Rusjan, Edmond, 89i:53057**

(Smirnov, Vladimir Aleksandrovich^3) *see* **Collins, John C., 89d:81072**

Smolin, Lee *see* **Jacobson, Ted, 89g:83027**

Sokatchev, E. S. Off-shell six-dimensional supergravity in harmonic superspace. **89m:83096**

Spergel, David N. *see* **Babul, Arif; et al., 89b:83098**

Stelle, K. S. (*with* Townsend, P. K.) Are 2-branes better than 1? **89m:81164**

Strominger, Andrew *see* **Bowick, M. J.; et al., 89j:83045**

Stumpf, Harald Gravitation as a composite particle effect in a unified spinor-isospinor preon field model. I. **89i:83066**

Tchrakian, D. H. On the dimensional reduction of gravity with torsion. **89b:83087**

Teitelboim, Claudio *see* **Brown, J. David, 89d:83081**

Testa, M. Chiral symmetry on the lattice with Wilson fermions. **89k:81121**

Thompson, Christopher Dynamics of cosmic string. **89e:83093**

Tomboulis, E. T. On unitarity in renormalisable $\mathbf{R}^2_{\mu\nu}$ quantum gravity. (*see* **89b:81008**)

Townsend, P. K. *see* **Stelle, K. S., 89m:81164**

Treder, H.-J. *see* **von Borzeszkowski, Horst-Heino, 89g:83024**

Turner, Michael S. *see* **Hill, Christopher T.; et al., 89f:83116**

Turok, Neil *see* **Copeland, E.; et al., 89b:83100**

Tuszyński, J. A. *see* **Winternitz, P.; et al., 89c:35145**

Umerez, N. *see* **Domenech, G.; et al., 89e:83082**

Vasil′ev, M. A. *see* **Fradkin, E. S., 89h:81085**

Vavougios, D. *see* **Jannussis, A. D.; et al., 89c:81059**

Vladimirskii, V. V. The quantum closed string—a model of the pomeron. **89i:81130**

Volovich, I. V. *see* **Aref′eva, I. Ya.; et al., 89c:83049**

Wess, Julius Kähler-Weyl invariance and $N=1$ supergravity. **89f:83109**

West, Peter *see* **Neveu, A., 89d:81106**

Winternitz, P. (*with* Grundland, A. M.; Tuszyński, J. A.) Exact solutions of the multidimensional classical φ^6-field equations obtained by symmetry reduction. **89c:35145**

Yue, Rui Hong *see* **Chen, Yi Xin; et al., 89d:81089**

Zamolodchikov, Aleksandr B. *see* **Knizhnik, V. G.; et al., 89i:83039**

(Zav′yalov, O. I.) *see* **Collins, John C., 89d:81072**

Zhang, Yao Zhong *see* **Chen, Yi Xin; et al., 89d:81089** *and* **Hou, Bo Yu; et al., 89k:81146**

81G30 Applications of group theory to nuclear physics

Balantekin, A. B. *see* **Schmitt, H. A.; et al., 89j:81263**

Barrett, B. R. *see* **Schmitt, H. A.; et al., 89j:81263**

Bijker, Roelof (*with* Kota, V. K. B.) Interacting boson-fermion model of collective states. IV. The $\mathrm{SU}(3)\otimes\mathrm{U}(2)$ limit. **89j:81259**

Birman, J. L. (*with* Solomon, A. I.) Dynamical symmetry in the many-body problem. (*see* **89d:81001**)

Broeckhove, J. (*with* Kesteloot, E.; Van Leuven, P.) Rotational motion, shell structure and coherent state dynamics. **89f:81260**

Cao, Jian Min (*with* Wang, Shun Jin) Solution of Elliott's SU(3) model in a continuous variable representation. (Chinese. English summary) **89j:81260**

Castaños, O. (*with* Draayer, J. P.) Contracted symplectic model with ds-shell applications. **89m:81195**

Casten, R. F. (*with* Warner, Daniel D.) The interacting boson approximation. **89b:81249**

Chen, Jin Quan *see* **Lü, Zi Min; et al., 89f:81262**

Chen, Xuan Gen *see* **Lü, Zi Min; et al., 89f:81262**

De Meyer, H. *see* **Vanthournout, J.; et al., 89j:81264** *and* **89j:81265**

Draayer, J. P. *see* **Castaños, O., 89m:81195**

Faessler, Amand (*with* Kyrchev, G.; Nojarov, R.) Boson quasispin in the generalised Bohr-Mottelson model. **89k:81194**

Feng, Cheng Tian Symmetries in nuclei. **89k:81195**

Feng, Da-hsuan *see* **Lü, Zi Min; et al., 89f:81262** *and* **Zhang, Wei Min; et al., 89j:81267**

Filippov, G. F. *see* **Vasilevskiĭ, V. S., (89d:81002)**

Gaponov, Yu. V. *see* **Vladimirov, D. M., 89c:81202** *and* **(89d:81002)**

Georgieva, A. (*with* Ivanov, M. I.; Raĭchev, P. P.; Roussev, R.) Boson representation of $\mathrm{Sp}(24,\mathbf{R})$ and classification of even-even nuclei. **89k:81196**

Geyer, H. B. *see* **Scholtz, F. G., 89a:81176**

Gilmore, R. *see* **Novoselsky, Akiva; et al., 89j:81261**

Ginocchio, Joseph N. *see* **Zhang, Wei Min; et al., 89j:81267**

Greiner, Martin (*with* Scheid, Werner; Herrmann, Richard) Collective spin from the linearisation of $(2\lambda+1)$-dimensional Schrödinger equations as used for nuclear surface vibrations. **89m:81196**

Guidry, Mike W. *see* **Zhang, Wei Min; et al., 89j:81267**

Hahne, F. J. W. (*with* Scholtz, F. G.) Vibrations and rotations for the proton-neutron interacting boson model. **89d:81124**

Halse, P. *see* **Schmitt, H. A.; et al., 89j:81263**

Hecht, K. T. Vector coherent state theory for the S, D fermion pair algebra. **89b:81250**

— Vector coherent state theory for the $\mathrm{Sp}(6)\supset\mathrm{U}(3)$ branch of the S, D fermion pair algebra. **89f:81261**

Herrmann, Richard *see* **Greiner, Martin; et al., 89m:81196**

Ivanov, M. I. *see* **Georgieva, A.; et al., 89k:81196**

Kaup, U. (*with* Ring, P.; Nikam, R. S.) A microscopic boson model for collective transition nuclei: Schwinger representation of the SO(8) shell model algebra. **89a:81173**

Kesteloot, E. *see* **Broeckhove, J.; et al., 89f:81260**

Komatsu, Takao *see* **Nishiyama, Seiya, 89f:81264** *and* **89f:81265**

Kota, V. K. B. *see* **Bijker, Roelof, 89j:81259**

Kuz′min, R. N. *see* **Ovchinnikova, E. N., (89j:00029)**

Kyrchev, G. *see* **Faessler, Amand; et al., 89k:81194**

Leschber, Yorck The algebraic image of the asymmetric top. **89a:81174**

Liu, Yong *see* **Pan, Wu Ming, 89j:81262**

Lü, Zi Min (*with* Pan, Xin Wan; Chen, Jin Quan; Chen, Xuan Gen; Feng, Da-hsuan) Correspondence between the fermion dynamic symmetry model and the interacting boson model in wave functions. **89f:81262**

Morrison, Iain *see* **Wood, L. D., 89f:81268**

Moshinsky, M. Group theory of the symplectic nuclear model. (*see* **89g:81001**)

Nguyễn-Đình-Đặng Dynamical $\mathrm{SU}(m)$-symmetric and $\mathrm{SU}(m/n)$-supersymmetric limits of the quasiparticle-phonon nuclear model. **89f:81263**

Nikam, R. S. *see* **Kaup, U.; et al., 89a:81173**

Nishiyama, Seiya (*with* Komatsu, Takao) Integrability conditions for a determination of collective submanifolds. II. On the validity of the "maximally decoupled" theory. (Italian and Russian summaries) **89f:81264**

— (*with* Komatsu, Takao) Integrability conditions for a determination of collective submanifolds. III. An investigation of the nonlinear time evolution equation arising from the zero-curvature equation. (Italian and Russian summaries) **89f:81265**

— Microscopic theory of large-amplitude collective motions based on the $\mathrm{SO}(2N+1)$ Lie algebra of the fermion operators. (Italian and Russian summaries) **89f:81266**

Nojarov, R. *see* **Faessler, Amand; et al., 89k:81194**

Nomura, Masao A reduction relation for the trace over a finite set of many-fermion states with a definite symmetry $\mathrm{U}(N)$. **89a:81175**

Norvaišas, E. Clebsch-Gordan coefficients of the U_6 group in the basis $\mathrm{U}_6\supset\mathrm{U}_3$. (*see* **89k:81002**)

Novoselsky, Akiva (*with* Vallières, Michel; Gilmore, R.) Matrix elements of shell model Hamiltonians in multiple angular momentum coupling schemes. **89j:81261**

Ovchinnikova, E. N. (*with* Kuz′min, R. N.) Symmetry in the nuclear solid state physics. (*see* **89j:00029**)

Pan, Wu Ming (*with* Liu, Yong) The coefficients of fractional parentage of d-boson systems. (Chinese. English summary) **89j:81262**

Pan, Xin Wan *see* **Lü, Zi Min; et al., 89f:81262**

Quesne, C. The nuclear collective $\mathrm{WSp}(6,\mathbf{R})$ model. **89m:81197**

— The nuclear collective $\mathrm{wsp}(6,\mathbf{R})$ model. **89f:81267**

Raĭchev, P. P. *see* **Georgieva, A.; et al., 89k:81196**

Ring, P. *see* **Kaup, U.; et al., 89a:81173**

Roussev, R. *see* **Georgieva, A.; et al., 89k:81196**

Scheid, Werner *see* **Greiner, Martin; et al., 89m:81196**

Schmitt, H. A. (*with* Halse, P.; Barrett, B. R.; Balantekin, A. B.) Orthosymplectic supersymmetry complementary to combined Bose-Fermi seniority algebras. **89j:81263**

Scholtz, F. G. (*with* Geyer, H. B.) A generalized Schwinger boson mapping with a physical subspace. **89a:81176**

— *see also* **Hahne, F. J. W., 89d:81124**

Solomon, A. I. *see* **Birman, J. L., (89d:81001)**

Tu, Chuan Shi An example of the realization of the Lie algebra embedding method—the interacting boson model. (Chinese. English summary) **89c:81201**

Vallières, Michel *see* **Novoselsky, Akiva; et al., 89j:81261**

Vanden Berghe, G. *see* **Vanthournout, J.; et al., 89j:81264** *and* **89j:81265**

Van der Jeugt, Joris *see* **Vanthournout, J.; et al., 89j:81264** *and* **89j:81265**

Van Leuven, P. *see* **Broeckhove, J.; et al., 89f:81260**

Vanthournout, J. (*with* Van der Jeugt, Joris; Vanden Berghe, G.; De Meyer, H.) Extension of the interacting boson model: higher order interactions preserving the dynamical symmetry (the O(6) limit). **89j:81264**

— (*with* Van der Jeugt, Joris; De Meyer, H.; Vanden Berghe, G.) On the spectrum of a third-order SO(3) scalar in the enveloping algebra of SO(6). **89j:81265**

Vasilevskiĭ, V. S. (*with* Filippov, G. F.) Effective Hamiltonians of the $\mathrm{Sp}(6,R)$ model for magic nuclei. (Russian) (*see* **89d:81002**)

Vladimirov, D. M. (*with* Gaponov, Yu. V.) Recurrent constructing SU(4) supermultiplet basis. **89c:81202**

— (*with* Gaponov, Yu. V.) SU(4)-symmetry in nuclear physics. (Russian) (*see* **89d:81002**)

Wang, Shun Jin *see* **Cao, Jian Min, 89j:81260**

Warner, Daniel D. *see* **Casten, R. F., 89b:81249**

de Wet, J. A. Nuclear strucure on a Grassmann manifold. **89e:81182**

Wood, L. D. (*with* Morrison, Iain) A Bose-Fermi map in the SU(3) limit of the IBA. **89f:81268**

Wu, Cheng Li *see* **Zhang, Wei Min; et al., 89j:81267**

Yu, Zu Rong On the basis of U(15/30) supersymmetry. **89j:81266**

Zee, A. Nonabelian gauge structure in nuclear quadrupole resonance. **89i:81147**

Zhang, Wei Min Microscopic study of fermionic collective motion. I. Functional representation of collective motion. **89e:81183**

— (*with* Wu, Cheng Li; Feng, Da-hsuan; Ginocchio, Joseph N.; Guidry, Mike W.) Geometrical structure and critical phenomena in the fermion dynamical symmetry model: Sp(6). **89j:81267**

Items with secondary classifications in 81G30

Butler, Philip H. *see* **Searle, Barry G., 89k:81046**

Falter, C. *see* **Ludwig, W., 89h:81001**

Hecht, K. T. *see* **Le Blanc, Richard, 89g:81025a**

Jarvis, P. D. (*with* Yang, Mei; Wybourne, B. G.) Generalized quasispin for supergroups. **89a:17003**

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Pacheco, J. M. *see* **Yannouleas, C.**, (Not in MR)
Quesne, C. Boson realisations of Lie algebras and expansion of shift operators. **89b:81067**
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81G35 Other nuclear physics

Arima, A. *see* **Bentz, W.; et al., 89j:81269**
Avishai, Y. Compound nucleus in Livšic open-system theory: factorization of the S-matrix. **89j:81268**
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Cataldo, H. M. (*with* Hernández, E. S.) Non-Markovian quantal Brownian motion model. **89f:81269**
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Hernández, E. S. *see* **Cataldo, H. M., 89f:81269**
Kamien, Randall D. (*with* Politzer, H. David; Wise, Mark B.) Universality of random-matrix predictions for the statistics of energy levels. **89d:81126**
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Klein, Abraham (*with* Une, Tsutomu) Pseudo-Hamiltonian approach to a theory of effective interactions in the particle-hole channel: phenomenology. **89m:81198**
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LeTourneux, Jean (*with* Vinet, Luc) Dipole-quadrupole interaction in spherical nuclei and Berry potentials. **89f:81270**
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Nishioka, Michio Remarks on Mignani's nonpotential scattering theory. **89c:81205**
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Pereyra, Pedro The supersymmetric formalism and the stochastic model symmetries in the fermion-fermion sector. **89f:81273**
Politzer, H. David *see* **Kamien, Randall D.; et al., 89d:81126**
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Senyuk, Yu. V. Statistical distribution of phases of elements of the S-matrix of a compound-nucleus reaction. (Russian. English summary) **89j:81270**
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Villi, C. *see* **Minelli, T. A.; et al., 89c:81203** *and* **89c:81204**
Vinet, Luc *see* **LeTourneux, Jean, 89f:81270**
Wise, Mark B. *see* **Kamien, Randall D.; et al., 89d:81126**
Yau, Horng-Tzer *see* **Conlon, Joseph G.; et al., 89d:81125**

Items with secondary classifications in 81G35

Kuperin, Yu. A. (*with* Makarov, K. A.; Pavlov, B. S.) Model of resonance scattering of compound particles. (Russian. English summary) **89m:81182**
Kuriyama, Atsushi *see* **Yamamura, Masatoshi, 89k:81203**
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Lieb, Elliott H. (*with* Yau, Horng-Tzer) Many-body stability implies a bound on the fine-structure constant. **89i:81019**
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Pavlov, B. S. *see* **Kuperin, Yu. A.; et al., 89m:81182**
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Sett, G. C. (*with* Laha, U.; Talukdar, B.) Phase-function method for Coulomb-distorted nuclear scattering. **89j:81241**
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Ullah, Nazakat Analytic continuation of the single-eigenvalue probability density function. **89d:82057**
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Yamamura, Masatoshi (*with* Kuriyama, Atsushi) Time-dependent Hartree-Fock method and its extension. **89k:81203**
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81G40 Applications of group theory to atomic physics

Abrashkevich, A. G. (*with* Vinitskiĭ, S. I.; Kaschiev, M. S.; Puzynin, I. V.) Two-dimensional basis functions for the three-body problem in hyperspherical coordinates. **89m:81200**
Bagchi, Bijan *see* **Lahiri, Anuradha; et al., 89c:81207**
Baumeister, Werner *see* **Kaufmann, Karl, 89j:81271**
Coffey, Mark W. On a potential with the spectrum of the hydrogen atom. **89m:81201**
Gerry, Christopher C. (*with* Kiefer, Jerry) Radial coherent states for the Coulomb problem. **89m:81202**
Gould, M. D. (*with* Paldus, Josef) Parastatistics and the Clifford algebra unitary group approach to the many-electron correlation problem. **89c:81206**
Kalloniatis, A. C. SO(4) group generators for k-ordered atomic systems. (Not in MR)
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Kaschiev, M. S. *see* **Abrashkevich, A. G.; et al., 89m:81200**
Kaufmann, Karl (*with* Baumeister, Werner) Single-centre expansion of Gaussian basis functions and the angular decomposition of their overlap integrals. **89j:81271**
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Komarov, I. V. Integrable system connected with the Coulomb three-body problem near two-particle thresholds. **89e:81184**
Lahiri, Anuradha (*with* Roy, Prodyot Kumar; Bagchi, Bijan) Supersymmetry in atomic physics and the radial problem. **89c:81207**
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Newman, Douglas John (*with* Ng, Betty; Pang, Chiu Yan) Orthogonal operators and subspace trees. **89d:81128**
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Núñez Yépez, H. N. (*with* Vargas, C. A.; Salas Brito, A. L.) Superselection rule in the one-dimensional hydrogen atom. **89f:81274**
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Rai, Jagdish (*with* Mehta, C. L.; Mukunda, N.) Correlated states and collective transition operators for multilevel atomic systems. I. **89h:81267**
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Rudra, P. Erratum: "Maximal symmetry group of the time-dependent Schrödinger equation: atoms and molecules" [Phys. Rev. A (3) **36** (1987), no. 1, 5–9; MR 88f:81146]. **89m:81203**
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Vargas, C. A. *see* **Núñez Yépez, H. N.; et al., 89f:81274**
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Falter, C. *see* **Ludwig, W., 89h:81001**
Hernández, E. S. (*with* Jezek, D. M.) Determination of basins of attraction for SU(2) dissipative models. **89g:58121**
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Junker, G. *see* **Barut, A. O.; et al., 89b:81060**
Komatsu, Takao *see* **Nishiyama, Seiya, 89f:81264** *and* **89f:81265**
de Lange, O. L. (*with* Raab, R. E.) Coulomb problem in an angular-momentum basis: an algebraic formulation. **89f:81248**
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Nomura, Masao A reduction relation for the trace over a finite set of many-fermion states with a definite symmetry U(N). **89a:81175**
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81G45 Other atomic physics

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— *see also* **Gottschalk, J. E.; et al., 89g:81107b**
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Baltin, R. Differential force law and related integral theorems for a system of N identical interacting particles. I. General geometries. **89j:81272**
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Becker, Ulrich (*with* Grün, Norbert; Scheid, Werner) Evaluation of Appell functions in relativistic Coulomb-Dirac form factors. **89a:81178**

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Bessis, N. (*with* Bessis, G.) Algebraic recursive determination of matrix elements from ladder operator considerations. **89c:81208**
Chan, Chiu Yeung (*with* Hon, Y. C.) Computational methods for generalized Thomas-Fermi models of neutral atoms. **89j:81274**
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Davtyan, L. S. (*with* Mardoyan, L. G.; Pogosyan, G. S.; Sisakyan, A. N.; Ter-Antonyan, V. M.) Generalised KS transformation: from five-dimensional hydrogen atom to eight-dimensional isotrope oscillator. **89c:81209**
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— (*with* Maslen, E. N.) Coordinate systems and analytic expansions for three-body atomic wavefunctions. III. Derivative continuity via solutions to Laplace's equation. **89g:81107c**
Grün, Norbert *see* **Becker, Ulrich; et al., 89a:81178**
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Jannussis, A. D. (*with* Papatheou, V.; Skuras, E.) Tight-binding model and Harper's equations are partial cases of the Caldirola-Montaldi procedure. (Italian and Russian summaries) **89k:81198**
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Lieb, Elliott H. (*with* Sigal, Israel M.; Simon, Barry; Thirring, W. E.) Approximate neutrality of large-Z ions. **89h:81269**
Lisitsa, V. S. New results on the Stark and Zeeman effects in the hydrogen atom. **89i:81148**
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Marinchev, E. (*with* Karastoyanov, A.) Use of generalized integral exponential functions for the atomic nucleus. I. Comparison of the Laplace and Yukawa potentials for a homogeneous spherical nucleus. (Bulgarian. English and Russian summaries) **89h:81270**
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Rieder, Gisèle Ruiz *see* **Goldstein, Jerome A., 89e:81185**
Rother, Wolfgang Goodisman's correction of the Thomas-Fermi-von Weizsäcker theory of atoms. (German summary) **89j:81277**
Roy, Barnana *see* **Roychoudhury, Rajkumar; et al., 89i:81149**
Roychoudhury, Rajkumar (*with* Roy, Barnana; Varshni, Y. P.) Algebraic treatment of the potential $V(r) = -v/r[1 - r\lambda(1 - 1/Z)/(1 + r\lambda)]$. **89i:81149**
Rudak, È. A. *see* **Kon′shin, O. V.**, (Not in MR)
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Sisakyan, A. N. *see* **Davtyan, L. S.; et al., 89c:81209** *and* **89c:81210**
Skuras, E. *see* **Jannussis, A. D.; et al., 89k:81198**
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Vinitskiĭ, S. I. *see* **Kadomtsev, M. B., 89b:81253**

Items with secondary classifications in 81G45

Bohm, Arno *see* **Boya, L. J.; et al., 89d:81018**
Boya, L. J. (*with* Kmiecik, M.; Bohm, Arno) Hydrogen atom in one dimension. **89d:81018**
Caffarel, Michel (*with* Claverie, Pierre) Development of a pure diffusion quantum Monte Carlo method using a full generalized Feynman-Kac formula. I. Formalism. **89b:81010a**
— (*with* Claverie, Pierre) Development of a pure diffusion quantum Monte Carlo method using a full generalized Feynman-Kac formula. II. Applications to simple systems. **89b:81010b**
Claverie, Pierre *see* **Caffarel, Michel, 89b:81010a** *and* **89b:81010b**
Durran, Richard (*with* Truman, Aubrey) Planetesimal diffusions. **89j:81046**
Dyakin, V. V. (*with* Petrukhnovskiĭ, S. I.) On the discreteness of the spectrum of some operator pencils connected with the periodic Schrödinger equation. **89k:35163**
Gilmore, R. *see* **Novoselsky, Akiva; et al., 89f:81271**
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(Lieb, Elliott H.) *see* **Rother, Wolfgang, 89a:81020**
Mandelzweig, V. B. *see* **Haftel, M. I., 89k:81003**
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Petkov, I. Zh. *see* **Kryachko, E. S.; et al., 89b:81259**
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Rother, Wolfgang A comment on a paper of E. H. Lieb: "Analysis of the Thomas-Fermi-von Weizsäcker equation for an infinite atom without electron repulsion" [Comm. Math. Phys. **85** (1982), no. 1, 15–25; MR 83m:81020]. (German. English summary) **89a:81020**
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Stoitsov, M. V. *see* **Kryachko, E. S.; et al., 89b:81259**
Truman, Aubrey *see* **Durran, Richard, 89j:81046**
Tsutsumi, Yoshio *see* **Hayashi, Nakao, 89a:81158**
Varshni, Y. P. *see* **Roychoudhury, Rajkumar, 89g:81014**
Weikard, Rudi *see* **Siedentop, Heinz, 89a:81022**

81G50 Applications of group theory to molecular physics

Asherova, R. M. *see* **Smirnov, Yu. F.**, (**89d:81002**)
Borner, H. P. (*with* O'Brien, M. C. M.) A pseudoscalar operator approach to the $T \otimes \tau_2$ Jahn-Teller system. **89j:81280**
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Kirson, Michael W. *see* **Leviatan, Amiram, 89j:81282**
Leviatan, Amiram (*with* Kirson, Michael W.) Intrinsic and collective structure of an algebraic model of molecular rotation-vibration spectra. **89j:81282**
Levine, R. D. Lie algebraic approach to molecular structure and dynamics. (*see* **89f:81004**)
Li, Bo Fu (*with* Long, Xiang Yun; Sun, Jia Zhong) The irreducible tensor method and molecular structure. I. Operator algebras and the tensor decomposition of Hamilton operators. (Chinese) **89g:81109**
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O'Brien, M. C. M. *see* **Borner, H. P., 89j:81280**
Paldus, Josef Lie algebraic approach to the many-electron correlation problem. (*see* **89f:81004**)
Perevalov, V. I. *see* **Zhilinskiĭ, B. I.; et al., 89f:81277**
Shavitt, Isaiah Unitary group approach to configuration interaction calculations of the electronic structure of atoms and molecules. (*see* **89f:81004**)
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Special issue:

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81G99 None of the above, but in this section

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81Hxx Quantum mechanics of many-body systems

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81H10 Nuclear structure [see also 81G35]

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81H20 Solid state band theory

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Zak, Joshua *see* **Bacry, H.; et al., 89j:81288**

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Slavnov, N. A. *see* **Izergin, A. G.; et al., 89b:82022**

Šťovíček, Pavel *see* **Exner, P.; et al., 89k:81024**

Sukstans′kiĭ, O. L. *see* **Bar′yakhtar, V. G.; et al., 89d:82087**

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Zhislin, G. M. *see* **Vugal′ter, S. A., 89m:82011**

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81J05 Superconductivity and superfluidity

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Lewis, John Trevor *see* **Ford, G. W.; et al., 89c:81053**

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Zou, Feng Wu *see* **Chen, Qing Yi, 89m:35020**

81K05 Quantum optics

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Bakasov, A. A. Physical reasons for Lyapunov stability of the radiation regime of a previously inverted system. **89m:81210**
(Bakut, P. A.) *see* **Peřin, Jan, 89b:81269**
Bandy, D. K. *see* **Lugiato, L. A.; et al., (89i:92026)**
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— *see also* **Gilson, C. R.; et al., (89m:81213a)**
Bartzis, V. E. *see* **Jannussis, A. D., 89j:81298**
Bechler, Adam Generation of squeezed states in a homogeneous magnetic field. **89f:81284**
(Bogolyubov, N. N.) *see* **Bogolyubov, N. N., Jr., 89c:81220**
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Graham, Robert Squeezing and frequency changes in harmonic oscillations. (*see* **89m:81213a**)
Haken, Hermann *see* **Wang, Zhi Cheng^2, 89f:81285**
Han, Daesoo (*with* Kim, Y. S.; Noz, Marilyn E.) Linear canonical transformations of coherent and squeezed states in the Wigner phase space. **89b:81264**
Hartmann, S. R. *see* **Friedberg, R., 89i:81159**
Hillery, Mark (*with* Mlodinow, Leonard D.) Bounds from a conservation law in the Dicke model. **89i:81160**
Hioe, F. T. *see* **Carroll, C. E., 89d:81135**
Holm, Darryl D. *see* **Doering, Charles R.; et al., 89k:81210**
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Ishkhanyan, A. M. New classes of analytic solutions of a two-level problem. (Russian. English and Armenian summaries) **89k:81211**
Jagatap, B. N. *see* **Lawande, S. V., 89a:81184**
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Kamiński, Jerzy Zdzisław Photon correlation effects in scattering. **89c:81221**
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Kim, Y. S. *see* **Han, Daesoo; et al., 89b:81264**
Knight, P. L. *see* **Loudon, R., (89m:81213a)**; **Barnett, S. M., (89m:81213a)** *and* **Squeezed light, 89m:81213a**
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Kurbatov, A. M. *see* **Bogolyubov, N. N., Jr.; et al., 89a:81183**
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Leonov, G. A. (*with* Morozov, A. V.) On the global stability of stationary oscillation in masers. **89h:81277**
Lerner, P. B. *see* **Andreev, V. A., 89k:81209**
Loudon, R. (*with* Knight, P. L.) Squeezed light. (*see* **89m:81213a**)
— *see also* **Squeezed light, 89m:81213a**
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Ma, Ai Qun *see* **Xia, De Yong, 89i:81164**
Man'ko, V. I. *see* **Dodonov, V. V.; et al., (89d:81002)**
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Mlodinow, Leonard D. *see* **Hillery, Mark, 89i:81160**
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Morozov, A. V. *see* **Leonov, G. A., 89h:81277**
(Mukha, A. V.) *see* **Peřin, Jan, 89b:81269**
Mukunda, N. (*with* Sudarshan, E. C. G.; Simon, Rajiah) Families of Bose rays in quantum optics. **89c:81222**
Muriel, A. The periodically kicked two-level atom. **89b:81267**
Narducci, L. M. *see* **Lugiato, L. A.; et al., (89i:92026)** *and* **(89j:82002)**
Neskoromnyi, V. N. *see* **Bogolyubov, N. N., Jr.; et al., 89a:81183**
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Noz, Marilyn E. *see* **Han, Daesoo; et al., 89b:81264**
Oldano, C. *see* **Lugiato, L. A., 89b:81265** *and* **(89j:82002)**
Oppo, G. L. *see* **Lugiato, L. A.; et al., (89i:92026)** *and* **(89j:82002)**
Orland, H. *see* **Luck, J. M.; et al., 89m:81211**
Papadopoulos, G. Energetics of radiation and a two-level atom in an ideal resonant cavity. **89b:81268**
Peřin, Jan ★ Квантовая статистика линейных и нелинейных оптических явлений. (Russian) [Quantum statistics of linear and nonlinear optical phenomena] **89b:81269**
Peřinová, V. *see* **Lukš, Antonín, 89b:81266**
Pernigo, M. A. *see* **Lugiato, L. A.; et al., (89i:92026)** *and* **(89j:82002)**
Petrov, N. I. *see* **Krivoshlykov, S. G.; et al., (89d:81002)**
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Prati, F. *see* **Lugiato, L. A.; et al., (89i:92026)** *and* **(89j:82002)**
Puri, R. R. *see* **Joshi, Amitabh, 89k:81212**
Ramjit, Ursula A. T. *see* **Abdalla, M. Sebawe, 89k:81208**
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Risken, H. (*with* Vogel, K.) Quantum treatment of dispersive optical bistability. (*see* **89j:82002**)
Rudnicki, Sławomir *see* **Alicki, Robert; et al., 89f:81283** *and* **89i:81158**
Rybin, A. V. *see* **Matveev, V. B.; et al., 89d:81136**
Sadowski, Sławomir *see* **Alicki, Robert; et al., 89f:81283** *and* **89i:81158**
Sall', M. A. *see* **Matveev, V. B.; et al., 89d:81136**
Sartirana, L. *see* **Lugiato, L. A.; et al., (89j:82002)**
Schleich, W. (*with* Walls, D. F.; Wheeler, John A.) Area of overlap and interference in phase space versus Wigner pseudoprobabilities. **89j:81300**
Shumovskii, A. S. *see* **Bogolyubov, N. N., Jr., 89c:81220** *and* **Pham Le Kien; et al., 89c:81223**
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— *see also* **Mukunda, N.; et al., 89c:81222**
Singh, Manmohan Entire generating function for a two-peaked spectrum. **89i:81163**
Sisakyan, I. N. *see* **Krivoshlykov, S. G.; et al., (89d:81002)**
Słowikowski, Wojtek *see* **Mølmer, Klaus, 89i:81161**
Smilansky, U. *see* **Luck, J. M.; et al., 89m:81211**
Stenholm, S. *see* **Gilson, C. R.; et al., (89m:81213a)**
Sudarshan, E. C. G. *see* **Mukunda, N.; et al., 89c:81222**
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Tran Quang *see* **Pham Le Kien; et al., 89c:81223**
Tredicce, J. R. *see* **Lugiato, L. A.; et al., (89i:92026)** *and* **(89j:82002)**
Venkata Satyanarayana, M. *see* **Simon, Rajiah, 89d:81137**
Vogel, K. *see* **Risken, H., (89j:82002)**
Vourdas, A. Optical signals with thermal noise. **89j:81302**
Walls, D. F. *see* **Schleich, W.; et al., 89j:81300**
Wang, Kai Ge *see* **Lugiato, L. A.; et al., (89i:92026)** *and* **(89j:82002)**
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Wheeler, John A. *see* **Schleich, W.; et al., 89j:81300**
Wódkiewicz, K. On the quantum mechanics of squeezed states. **89m:81213b**
Xia, De Yong (*with* Ma, Ai Qun) The applications of catastrophe theory to the study of nonequilibrium phase transitions. (Chinese) **89i:81164**
Xu, Cheng Coherent states of electromagnetic fields and the principle of superposition. (Chinese. English summary) **89j:81303**
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Adachihara, H. *see* **Moloney, J. V.; et al., 89g:58134**
Alicki, Robert (*with* Lendi, K.) ★ Quantum dynamical semigroups and applications. **89b:81002**
Arimitsu, T. Kinetic equations within the formalism of nonequilibrium thermo field dynamics. **89i:81102**
Bach, Alexander Quanta and coherent states. **89h:81087**

Bakasov, A. A. On phase transition in the Dicke model with two-photon interaction. (Russian) **89c:82012**
Barchielli, Alberto Quantum stochastic differential equations: an application to the electron shelving effect. **89e:81031**
Bishop, R. F. *see* **Vourdas, A., 89j:81083**
Bogdanov, E. I. *see* **Nagibarova, I. A.; et al., 89g:81102**
Broggi, G. *see* **Lugiato, L. A.; et al., (89i:92026)**
Cataldo, H. M. *see* **Hernández, E. S., 89m:81050**
Chechetkin, V. R. (*with* Lutovinov, V. S.) Quantum motion of particles in random dynamic fields and quantum dissipation: Schrödinger equation with Gaussian fluctuating potentials. **89b:82039**
Cherednik, I. V. *see* **Vysloukh, V. A.; et al., 89g:35105** *and* **89h:78015**
Colegrave, R. K. (*with* Mannan, M. A.) Invariants for the time-dependent harmonic oscillator. **89i:70026**
Collett, M. J. Exact density-matrix calculations for simple open systems. **89h:81010**
Dattoli, G. (*with* Richetta, M.; Torre, Amalia) Operator disentanglement. **89f:81061b**
Deryugin, I. A. *see* **Nagibarova, I. A.; et al., 89g:81102**
Dodonov, V. V. (*with* Kurmyshev, E. V.; Man′ko, V. I.) Correlated coherent states of a charged particle in a homogeneous magnetic field. (Russian) (*see* **89d:81002**)
Doucha, M. *see* **Reik, H. G.; et al., 89b:81078**
Duffield, N. G. The continuum limit of dissipative dynamics in H. Fröhlich's pumped phonon system. **89k:82020**
Dupertuis, M. A. Alternate orderings: a new tool for the study of phase and photon statistics. **89f:81072**
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Fan, Hong Yi (*with* Klauder, John R.) Canonical coherent-state representation of some squeeze operators. **89i:81058**
Fannes, Mark (*with* Nachtergaele, B.; Verbeure, A.) The equilibrium states of the spin-boson model. **89b:81251**
Fiordilino, E. A method of solution of the two-state Schrödinger equation. (Italian and Russian summaries) **89m:81035**
Goggin, M. E. (*with* Milonni, P. W.) Driven Morse oscillator: classical chaos, quantum theory, and photodissociation. **89b:81035**
Gordov, E. P. *see* **Khazanov, A. M.; et al., 89k:82045**
Hernández, E. S. (*with* Cataldo, H. M.) Semiclassical description of harmonic quantal Brownian motion. **89m:81050**
Ivanov, Aleksandr Vasil′evich *see* **Vysloukh, V. A.; et al., 89g:35105**
Jakóbczyk, L. (*with* Strocchi, F.) Kreĭn structures for Wightman and Schwinger functions. **89e:81076**
Jamiołkowski, Andrzej Open quantum Markovian systems and their reconstructibility. **89d:82031**
Jolicard, Georges A recursive solution to the time dependent Schrödinger equation using a generalized quasidegenerate Bloch formalism. **89m:81003**
Khazanov, A. M. (*with* Koganov, G. A.; Gordov, E. P.) Time-dependent projection operator used for separating subsystem variables and its application in laser theory. **89k:82045**
Klauder, John R. *see* **Fan, Hong Yi, 89i:81058**
Koganov, G. A. *see* **Khazanov, A. M.; et al., 89k:82045**
Kopvillem, U. Kh. The set-theoretic structure of synergetics. (Russian) (*see* **89d:81002**)
Kurmyshev, E. V. *see* **Dodonov, V. V.; et al., (89d:81002)**
Lais, P. *see* **Reik, H. G.; et al., 89b:81078**
Lendi, K. *see* **Alicki, Robert, 89b:81002**
Lugiato, L. A. (*with* Oldano, C.; Sartirana, L.; Wang, Kai Ge; Narducci, L. M.; Oppo, G. L.; Prati, F.; Broggi, G.) Spatial symmetry breaking in optical systems. (*see* **89i:92026**)
Lutovinov, V. S. *see* **Chechetkin, V. R., 89b:82039**
Mandel, Paul (*with* Zeghlache, H.; Erneux, Thomas) Time-dependent phase transitions. (*see* **89j:82002**)
Man′ko, V. I. *see* **Dodonov, V. V.; et al., (89d:81002)**
Mannan, M. A. *see* **Colegrave, R. K., 89i:70026**
Mazmanishvili, A. S. *see* **Virchenko, Yu. P., 89b:60107**
McConnell, James Schrödinger's nonlinear optics. (*see* **89m:01069**)
McLaughlin, D. W. *see* **Moloney, J. V.; et al., 89g:58134**
Milonni, P. W. *see* **Goggin, M. E., 89b:81035**
Moloney, J. V. (*with* Adachihara, H.; McLaughlin, D. W.; Newell, A. C.) Fixed points and chaotic dynamics of an infinite-dimensional map. **89g:58134**
Mukunda, N. *see* **Simon, Rajiah; et al., 89g:81020**
Nachtergaele, B. *see* **Fannes, Mark; et al., 89b:81251**
Nagibarova, I. A. (*with* Bogdanov, E. I.; Deryugin, I. A.) ★ Динамика квантовых систем. (Russian) [The dynamics of quantum systems] **89g:81102**
Narducci, L. M. *see* **Lugiato, L. A.; et al., (89i:92026)**
Newell, A. C. *see* **Moloney, J. V.; et al., 89g:58134**
Oldano, C. *see* **Lugiato, L. A.; et al., (89i:92026)**
Oppo, G. L. *see* **Lugiato, L. A.; et al., (89i:92026)**
Oraevskiĭ, A. N. (*with* Protsenko, I. E.; Safonova, M. A.; Toronov, V. Yu.) Dynamic modes in a laser with two resonance lines of an active medium. **89i:78013**
Orszag, M. (*with* Salamó, S.) Squeezing and minimum uncertainty states in the supersymmetric harmonic oscillator. **89m:81079**
Prati, F. *see* **Lugiato, L. A.; et al., (89i:92026)**
Protsenko, I. E. *see* **Oraevskiĭ, A. N.; et al., 89i:78013**
Raggio, G. A. The free energy of the spin-boson model. **89k:82026**
Reik, H. G. (*with* Lais, P.; Stützle, M. E.; Doucha, M.) Exact solution of the $E \otimes \varepsilon$ Jahn-Teller and Rabi Hamiltonian by generalised spheroidal wavefunctions? **89b:81078**
Richetta, M. *see* **Dattoli, G.; et al., 89f:81061b**
Roekaerts, D. Painlevé property and constants of the motion of the complex Lorenz model. **89m:58185**
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Schleich, W. (*with* Walther, Herbert; Wheeler, John A.) Area in phase space as determiner of transition probability: Bohr-Sommerfeld bands, Wigner ripples, and Fresnel zones. **89m:81023**
Schwartz, Ira B. Sequential horseshoe formation in the birth and death of chaotic attractors. **89e:58092**
Simon, Rajiah (*with* Sudarshan, E. C. G.; Mukunda, N.) Gaussian Wigner distributions: a complete characterization. **89g:81020**
Strocchi, F. *see* **Jakóbczyk, L., 89e:81076**
Stützle, M. E. *see* **Reik, H. G.; et al., 89b:81078**
Sudarshan, E. C. G. Quantum phases in classical optics. **89c:81018**
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Suzuki, Junji Simple excitations in the nested Bethe-ansatz model. **89k:82108**
Toronov, V. Yu. *see* **Oraevskiĭ, A. N.; et al., 89i:78013**
Torre, Amalia *see* **Dattoli, G.; et al., 89f:81061b**
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Virchenko, Yu. P. (*with* Mazmanishvili, A. S.) Unimodality of a class of distributions connected with a complex Ornstein-Uhlenbeck process. (Russian. English summary) **89b:60107**
Vourdas, A. (*with* Bishop, R. F.) Phase-admixed states: coherence and incoherence. **89j:81083**
Vysloukh, V. A. (*with* Ivanov, Aleksandr Vasil′evich; Cherednik, I. V.) Statistics of the fluctuations of one-soliton solutions of the nonlinear Schrödinger equation. (Russian. English summary) **89g:35105**
— (*with* Cherednik, I. V.) Modeling of the restoration of the envelope of supershort optical impulses from the characteristics of their nonlinear interaction with single-soliton test impulses. **89h:78015**
Walther, Herbert *see* **Schleich, W.; et al., 89m:81023**
Wang, Kai Ge *see* **Lugiato, L. A.; et al., (89i:92026)**
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Zeghlache, H. *see* **Mandel, Paul; et al., (89j:82002)**

81L05 Quantum electrodynamics

Åberg, T. *see* **Guo, D. S., 89j:81304**
Alvarez-Estrada, R. F. Quantum electrodynamics at high temperature. I. One spatial dimension. **89f:81287**
— Quantum electrodynamics at high temperature. II. Three spatial dimensions. **89f:81288**
Appelquist, Thomas (*with* Nash, Daniel; Wijewardhana, L. C. R.) Critical behavior in $(2+1)$-dimensional QED. **89c:81225**
Babichenko, A. S. (*with* Shabad, A. E.) Summation of infrared singularities of the electron propagator at finite temperature. **89h:81279**
Belousov, I. V. *see* **Oleĭnik, V. P., 89a:81189** *and* **89a:81190**
Brana, J. (*with* Marjanović-Gabela, N.; Samek, D.) Quantization of the free electromagnetic field in the new formulation. (Serbo-Croatian summary) (Not in MR)
Dittrich, W. (*with* Sieber, M.) On the trace anomaly of the energy-momentum tensor from the one-loop effective Lagrangian in QED. **89i:81165**
Fittler, Robert More nonstandard quantum electrodynamics. **89h:81280**
Giovanelli, Raffaele Detection of empty waves by means of photon correlations in amplified light pulses. (*see* **89j:81004**)
Guo, D. S. (*with* Åberg, T.) Quantum electrodynamical approach to multiphoton ionisation in the high-intensity H field. **89j:81304**
Haller, Kurt Quantum electrodynamics in the temporal gauge. **89a:81186**
Hetrick, James E. (*with* Hosotani, Yutaka) QED on a circle. **89k:81214**
Hosotani, Yutaka *see* **Hetrick, James E., 89k:81214**
Jayewardena, Camillus Schwinger model on S^2. **89j:81305**
Katz, Alan R. Semiclassical limit of the Dirac equation and the g minus 2 experiment. **89a:81187**
Kirzhnits, D. A. On the "Moscow-zero" problem. **89h:81281**
Kolsrud, Marius The external field approximation of quantum electrodynamics. **89k:81215**
Lotze, K.-H. Emission of a photon by an electron in Robertson-Walker universes. **89a:81188**
Marjanović-Gabela, N. *see* **Brana, J.; et al., (Not in MR)**
Matsuyama, Toyoki Quantization of conductivity induced by topological structure of energy-momentum space in generalized QED$_3$. **89b:81270**
McEwan, J. Spin-gauge extensions of electrodynamics. (Italian and Russian summaries) **89g:81113**
Nash, Daniel *see* **Appelquist, Thomas; et al., 89c:81225**
Nenciu, G. Existence of the spontaneous pair creation in the external field approximation of Q.E.D. **89b:81271**
Nishijima, Kazuhiko Some identities in quantum electrodynamics. **89m:81214**
Oleĭnik, V. P. (*with* Belousov, I. V.) On the quantum electrodynamics of nonisolated systems. I. The damping harmonic oscillator. (Russian. English summary) **89a:81189**
— (*with* Belousov, I. V.) On the quantum electrodynamics of nonisolated systems. II. The bounded dispersing medium. (Russian. English summary) **89a:81190**
Ostrovskiĭ, A. A. (*with* Vilkoviskiĭ, G. A.) The covariant effective action in QED. One-loop magnetic moment. **89c:81226**
Plokhotnikov, K. È. Discrete space-time and quantum electrodynamics. (Russian) **89h:81282**
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Samek, D. *see* **Brana, J.; et al., (Not in MR)**
Shabad, A. E. *see* **Babichenko, A. S., 89h:81279**
Shevchenko, O. Yu. *see* **Skachkov, N. B.; et al., 89b:81272**
Sieber, M. *see* **Dittrich, W., 89i:81165**
Skachkov, N. B. (*with* Solovtsov, I. L.; Shevchenko, O. Yu.) Infrared asymptotics of a gauge-invariant propagator in quantum electrodynamics. (Russian. English summary) **89b:81272**
Solovtsov, I. L. *see* **Skachkov, N. B.; et al., 89b:81272**
Steringa, J. J. *see* **de Roo, M., (Not in MR)**
Todorov, I. T. Nonsingular conformal-invariant formulation of massless quantum electrodynamics. **89h:81283**

ilkoviskiĭ, G. A. *see* **Ostrovskiĭ, A. A., 89c:81226**
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Chomet, S.) *see* **Sokolov, A. A., 89b:81003**
ietz, Klaus P. (*with* Römer, H.) The role of the η-invariant for the description of electrons in a strong Coulomb field. **89f:81247**
imock, Jonathan QED on a lattice. I. Infrared asymptotic freedom for bounded fields. (French summary) **89k:81116**
edorov, F. I. *see* **Radyuk, A. F., 89c:81193**
ronsdal, Christian The supersingleton. I. Free dipole and interactions at infinity. **89k:81100a**
- The supersingleton. II. Composite electrodynamics. **89k:81100b**
iguchi, Atsushi (*with* Parker, Leonard) Aspects of QED and nonabelian gauge theories in $S^1 \times \mathbf{R}^3$ and $S^1 \times \mathbf{R}^4$ spacetimes. **89e:81091**
urd, T. R. Renormalization of massless quantum electrodynamics. (*see* **89g:81002**)
aschluhn, L. *see* **Bordag, M., 89h:81129**
orotkov, A. N. (*with* Tokarev, V. F.) Instanton effects in two-dimensional scalar electrodynamics. (Russian. English summary) **89c:81076**
rive, I. V. (*with* Latinskiĭ, S. M.) Vacuum polarization by a nonuniform external field in a medium. **89k:81154**
atinskiĭ, S. M. *see* **Krive, I. V., 89k:81154**
evy, Dan The algebra of the Gauss law in $d = 4$ massless axial QED with a WZ term. **89h:81205**
ink, Robert (*with* Roberge, A.; Semenoff, Gordon W.) Lorentz invariant exact solution of the anomalous chiral Schwinger model. **89i:81082**
onagan, M. B. *see* **Scott, T. C.; et al.**, (Not in MR)
oore, R. A. *see* **Scott, T. C.; et al.**, (Not in MR)
orozumi, Takuya (*with* So, Hiroto) Chiral symmetry breaking of strong coupling QED. **89a:81165**
arker, Leonard *see* **Higuchi, Atsushi, 89e:81091**
rokhorov, L. V. Quantization of the electromagnetic field. **89i:81142**
adyuk, A. F. (*with* Fedorov, F. I.) A polarizing scalar product in constant magnetic and electrical fields and in a plane wave field. (Russian. English summary) **89c:81193**
oberge, A. *see* **Link, Robert; et al., 89i:81082**
ömer, H. *see* **Dietz, Klaus P., 89f:81247**
cott, T. C. (*with* Moore, R. A.; Monagan, M. B.) Resolution of many particle electrodynamics by symbolic manipulation. (Not in MR)
emenoff, Gordon W. *see* **Link, Robert; et al., 89i:81082**
o, Hiroto *see* **Morozumi, Takuya, 89a:81165**
okolov, A. A. (*with* Ternov, I. M.) ★ Radiation from relativistic electrons. **89b:81003**
udbery, A. The rapid-dispersal approximation in radiative atomic processes. **89j:81301**
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okarev, V. F. *see* **Korotkov, A. N., 89c:81076**

1M05 Relativistic theory

yprianidis, A. Scalar time parametrization of relativistic quantum mechanics: the covariant Schrödinger formalism. **89b:81273**
azdjian, H. The scalar product in two-particle relativistic quantum mechanics. **89j:81306**

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el, L. (*with* Ruiz, E.) Relativistic Schrödinger equations. **89f:81058**
atz, Alan R. Semiclassical limit of the Dirac equation and the g minus 2 experiment. **89a:81187**
elson, J. E. (*with* Regge, Tullio) Lorentz invariance and the group manifold approach. **89j:83005**
egge, Tullio *see* **Nelson, J. E., 89j:83005**
uiz, E. *see* **Bel, L., 89f:81058**
azdjian, H. The connection of two-particle relativistic quantum mechanics with the Bethe-Salpeter equation. **89b:81084**

1N05 Mathematically heuristic quantum mechanics (must also be assigned at least one other classification number in this section)

Dunlop, François) *see* **Falkenburg, Brigitte**, (Not in MR)
alkenburg, Brigitte The unifying role of symmetry principles in particle physics. (Not in MR)
ingold, Harry In general, the less degeneracy the less transition. A principle for time-dependent Hamiltonian systems in quantum mechanics. **89g:81114**
su, Jong Ping (*with* Pei, Shou Yong) Klauder's continuous representations and fuzzy coordinate variables. **89f:81289**
ei, Shou Yong *see* **Hsu, Jong Ping, 89f:81289**

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euter, M. Parity-violating anomalies and the stationarity of stochastic averages. **89c:81160**
tephens, C. R. Nonperturbative background field calculations. **89b:81224**

82–XX Statistical physics, structure of matter

Items with secondary classifications in 82–XX

Kazakov, Vladimir Aleksandrovich[2] Kinetic equations for probability densities of non-Markov processes. Evolution of moment and cumulant functions. (Russian. English summary) (Not in MR)

82–01 Elementary exposition; textbooks

Chandler, David ★ Introduction to modern statistical mechanics. **89d:82001**
Cipra, Barry A. An introduction to the Ising model. **89g:82001**
(Danilov, Yu. A.) *see* **Horsthemke, Werner, 89d:82002**
(Emel′yanov, V. I.) *see* **Horsthemke, Werner, 89d:82002**
Hill, Terrell L. ★ An introduction to statistical thermodynamics. **89f:82001**
Horsthemke, Werner (*with* Lefever, René) ★ Индуцированные шумом переходы. (Russian) [Noise-induced transitions] **89d:82002**
Lefever, René *see* **Horsthemke, Werner, 89d:82002**
(Mikhaĭlov, A. S.) *see* **Horsthemke, Werner, 89d:82002**
(Zubarev, D. N.) *see* **Horsthemke, Werner, 89d:82002**

Items with secondary classifications in 82–01

Binder, K. (*with* Heermann, Dieter W.) ★ Monte Carlo simulation in statistical physics. **89i:82002**
Bittencourt, J. A. ★ Fundamentals of plasma physics. **89i:82054**
Fisher, Michael Ellis Diffusion from an entrance to an exit. **89d:82049**
Georgii, Hans-Otto ★ Gibbs measures and phase transitions. **89k:82010**
Heermann, Dieter W. *see* **Binder, K., 89i:82002**
Janssen, Ted W. J. M. Aperiodic crystals: a contradictio in terminis? **89m:82062**
Landau, L. D. (*with* Lifshits, E. M.; Pitaevskiĭ, L. P.) ★ Fisica teorica. 5. Fisica statistica. Parte prima. (Italian) [Theoretical physics. 5. Statistical physics. Part I] (Not in MR)
Lifshits, E. M. *see* **Landau, L. D.; et al.**, (Not in MR)
(Machov, A.) *see* **Landau, L. D.; et al.**, (Not in MR)
Pitaevskiĭ, L. P. *see* **Landau, L. D.; et al.**, (Not in MR)
Röpke, Gerd ★ Statistische Mechanik für das Nichtgleichgewicht. (German) [Nonequilibrium statistical mechanics] **89g:82037**

82–02 Advanced exposition (research surveys, monographs, etc.)

Barash, Yu. S. ★ Силы Ван-дер-Ваальса. (Russian) [van der Waals forces] **89m:82001**
(Davydov, A. S.) *see* **Physics of multiparticle systems, 89k:82001**
(Faddeev, L. D.) *see* **Gaudin, Michel, 89c:82001**
Gaudin, Michel ★ Волновая функция Бете. (Russian) [The Bethe wave function] **89c:82001**
Grosse, H. ★ Models in statistical physics and quantum field theory. **89i:82001**
(Kulish, P. P.) *see* **Gaudin, Michel, 89c:82001**
Martinelli, Fabio (*with* Scoppola, E.) Introduction to the mathematical theory of Anderson localization. **89g:82002**
Scoppola, E. *see* **Martinelli, Fabio, 89g:82002**
Sewell, Geoffrey L. ★ Quantum theory of collective phenomena. **89m:82002**
(Sklyanin, E. K.) *see* **Gaudin, Michel, 89c:82001**

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Physics of multiparticle systems ★ Физика многочастичных систем. Вып. 14. (Russian) [Physics of multiparticle systems. No. 14] **89k:82001**

Items with secondary classifications in 82–02

Abraham, D. B. Surface structures and phase transitions—exact results. **89g:82019**
Aizenman, Michael General results in percolation theory. **89d:82081**
Bellomo, N. (*with* Lachowicz, M.) Kinetic equations for dense gases—a review of physical and mathematical results. **89b:82047**
Burak, Ya. Ĭ. (*with* Chekurin, V. F.) ★ Физико-механические поля в полупроводниках. (Russian) [Physical-mechanical fields in semiconductors] **89k:82068**
Cardy, John L. Conformal invariance. **89f:82015**
Chekurin, V. F. *see* **Burak, Ya. Ĭ., 89k:82068**
Durrett, Rick ★ Lecture notes on particle systems and percolation. **89k:60157**
Faĭnberg, V. Ya. The contributions of E. S. Fradkin to quantum field theory and statistics. **89h:81002**
(Fradkin, E. S.) *see* **Faĭnberg, V. Ya., 89h:81002**
Grandy, Walter T., Jr. ★ Foundations of statistical mechanics. Vol. I. **89j:82089**
— ★ Foundations of statistical mechanics. Vol. II. **89j:82090**
Hara, Takashi (*with* Hattori, Tetsuya; Kondo, Kei-ichi; Tasaki, Hal) Scalar field theory from statistical mechanics. **89e:81082**
Hattori, Tetsuya *see* **Hara, Takashi; et al., 89e:81082**
Izyumov, Yu. A. (*with* Skryabin, Yu. N.) ★ Статистическая механика магнитоупорядоченных систем. (Russian) [Statistical mechanics of magneto-ordered systems] **89j:82073**
Kondo, Kei-ichi *see* **Hara, Takashi; et al., 89e:81082**
Kurik, M. V. (*with* Lavrentovich, O. D.) Defects in liquid crystals: homotopy theory and experimental studies. **89i:82071**
Lachowicz, M. *see* **Bellomo, N., 89b:82047**
Lavrentovich, O. D. *see* **Kurik, M. V., 89i:82071**
Leschke, Hajo Some bounds on quantum partition functions by path-integral methods. (*see* **89i:81034**)
Lindström, Bernt *see* **Rosengren, Anders, 89c:82062**
Percus, J. K. Exactly solvable models of classical many-body systems. **89d:82017**
Rebenko, A. L. Mathematical foundations of the equilibrium classical statistical mechanics of charged particles. **89h:82004**
Rosengren, Anders (*with* Lindström, Bernt) A combinatorial series expansion for the Ising model. **89c:82062**
Selke, Walter The ANNNI model-theoretical analysis and experimental application. **89j:82078**

Skryabin, Yu. N. *see* **Izyumov, Yu. A., 89j:82073**
Slawny, Joseph Low-temperature properties of classical lattice systems: phase transitions and phase diagrams. **89m:82086**
Tasaki, Hal *see* **Hara, Takashi; et al., 89e:81082**
Witten, Edward Positive energy and Kaluza-Klein theory. **89g:83037**

82–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 82–03

(Birkhoff, George David) *see* **Kuznetsova, O. V., 89f:01048**
(Boltzmann, Ludwig) *see* **von Plato, Jan, 89d:01052**
Burckhardt, Johann Jakob ★ Die Symmetrie der Kristalle. (German) [The symmetry of crystals] **89m:51020**
Caldirola, Piero ★ Selected papers. Vol. I–IV. (Italian) **89h:01104**
(Einstein, Albert) *see* **von Plato, Jan, 89d:01052**
Faĭnberg, V. Ya. The contributions of E. S. Fradkin to quantum field theory and statistics. **89h:81002**
(Fradkin, E. S.) *see* **Faĭnberg, V. Ya., 89h:81002**
Gavroglu, Kostas (*with* Goudaroulis, Yorgos) Understanding macroscopic quantum phenomena: the history of superfluidity 1941–1955. **89k:01024**
(Gibbs, Josiah Willard) *see* **Klein, Martin J., 89j:01043**
Goudaroulis, Yorgos *see* **Gavroglu, Kostas, 89k:01024**
(Haüy, René-Just) *see* **Burckhardt, Johann Jakob, 89m:51020**
(Kilmister, C. W.) *see* **Schrödinger, 89m:01069**
Klein, Martin J. Some historical remarks on the statistical mechanics of Josiah Willard Gibbs. **89j:01043**
(Krylov, N. S.) *see* **Kuznetsova, O. V., 89k:01025**
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— ★ История обоснования статистической механики. (Russian) [History of the justification of statistical mechanics] **89f:01048**
(Mignani, Roberto) *see* **Caldirola, Piero, 89h:01104**
(von Mises, Richard) *see* **von Plato, Jan, 89d:01052**
von Plato, Jan Probabilistic physics the classical way. **89d:01052**
(Recami, Erasmo) *see* **Caldirola, Piero, 89h:01104**
(Rowlinson, J. S.) *see* **van der Waals, J. D., 89d:01080**
(Santilli, Ruggero M.) *see* **Caldirola, Piero, 89h:01104**
(Scholz, E.) *see* **Burckhardt, Johann Jakob, 89m:51020**
(Schrödinger, Erwin) *see* **Schrödinger, 89m:01069**
van der Waals, J. D. ★ On the continuity of the gaseous and liquid states. **89d:01080**

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Anniversary:
  Birth of Schrödinger, Erwin ★ Schrödinger. **89m:01069**
Biography:
  Caldirola, Piero *see* **Caldirola, Piero, 89h:01104**
Conference:
  Schrödinger ★ Schrödinger. **89m:01069**
London ★ Schrödinger. **89m:01069**
Schrödinger ★ Schrödinger. **89m:01069**

82–04 Explicit machine computation and programs (not the theory of computation or programming)

Baig, M. Determination of the phase structure of the four-dimensional coupled gauge-Higgs Potts model. **89d:82003**
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Binder, K. (*with* Heermann, Dieter W.) ★ Monte Carlo simulation in statistical physics. **89i:82002**
Casari, Adolfo *see* **Barahona, Francisco, 89d:82004**
Edwards, Robert G. (*with* Sokal, Alan D.) Generalization of the Fortuin-Kasteleyn-Swendsen-Wang representation and Monte Carlo algorithm. **89i:82003**
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Hassold, Gregory N. *see* **Kantor, Yacov, 89b:82001**
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— (*with* Lallemand, P.) Errata: "Numerical simulations of hydrodynamics with lattice gas automata in two dimensions" [Complex Systems 1 (1987), no. 4, 599–632; MR 89a:82002]. **89k:82002**
Kantor, Yacov (*with* Hassold, Gregory N.) Topological entanglements in the percolation problem. **89b:82001**
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Nagai, Tatsuzo (*with* Kawasaki, Kyozi; Nakamura, Katsuhiro) Vertex dynamics of two-dimensional cellular patterns. **89f:82002**
Nakamura, Katsuhiro *see* **Nagai, Tatsuzo; et al., 89f:82002**
Nittmann, J. (*with* Stanley, H. E.) Nondeterministic approach to anisotropic growth patterns with continuously tunable morphology: the fractal properties of some real snowflakes. **89c:82003**
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Stanley, H. E. *see* **Nittmann, J., 89c:82003**
Wille, L. T. Close packing in curved space by simulated annealing. **89d:82005**

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Adler, Joan (*with* Palmer, R. G.; Meyer, Horst) Transmission of order in some unusual dilute systems. **89a:82036**
— (*with* Aharony, Amnon) Diffusion percolation. I. Infinite time limit and bootstrap percolation. **89m:82043**
Aharony, Amnon *see* **Adler, Joan, 89m:82043**
Alcaraz, Francisco C. (*with* Barber, Michael N.; Batchelor, M. T.; Baxter, Rodney James; Quispel, G. R. W.) Surface exponents of the quantum XXZ, Ashkin-Teller and Potts models. **89b:82100**
Allton, C. R. (*with* Hamer, C. J.) The $(1+1)$D $O(2)$ model: a finite lattice analysis. **89g:82020**
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— *see also* **Alcaraz, Francisco C.; et al., 89b:82100; Batchelor, M. T.; et al., 89b:82103** *and* **Hamer, C. J.; et al., 89i:82086**
Batchelor, M. T. (*with* Barber, Michael N.; Pearce, Paul A.) Bethe ansatz calculations for the eight-vertex model on a finite strip. **89b:82103**
— *see also* **Alcaraz, Francisco C.; et al., 89b:82100** *and* **Hamer, C. J.; et al., 89i:82086**
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Cheng, Zheming (*with* Savit, Robert) Dynamics of infinite-range ballistic aggregation. **89b:82138**
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Clavin, Paul (*with* d'Humières, D.; Lallemand, P.; Pomeau, Y.) Automates cellulaires pour les problèmes à frontières libres en hydrodynamique à deux et trois dimensions. (English summary) [Cellular automata for hydrodynamics with free boundaries in two and three dimensions] **89k:76004**
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Crisanti, A. (*with* Sompolinsky, H.) Dynamics of spin systems with randomly asymmetric bonds: Ising spins and Glauber dynamics. **89d:82122**
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Dewar, Roderick C. (*with* Mottishaw, P.) Equilibrium states of the spin glass on a Bethe lattice. **89j:82059**
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Fujiwara, Takeo *see* **Krajčí, Marian, 89k:82078**
Furuya, Kyoko (*with* Ozorio de Almeida, A. M.) Soliton energies in the standard map beyond the chaotic threshold. **89a:82006**
Garrido, P. L. (*with* Labarta, Amilcar; Marro Borau, Joaquín) Stationary nonequilibrium states in the Ising model with locally competing temperatures. **89a:82041**
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Grassberger, P. *see* **Freund, H., 89i:82069**
Graves-Morris, P. R. The critical index of the magnetic susceptibility of 3D Ising models. **89d:82039**
Guha, A. (*with* Lim, H. A.; Shapir, Y.) Nonperturbative tricritical exponents of trails. II. Exact enumerations on square and simple cubic lattices. **89d:82115**
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— *see also* **Allton, C. R., 89g:82020**
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Hauck, J. (*with* Henkel, D.; Mika, K.) Ordering of metal atoms in binary ccp, hcp, and bcc alloys. **89f:82067**
Henkel, D. *see* **Hauck, J.; et al., 89f:82067**
Henley, Christopher L. *see* **Leung, P. W.; et al., 89j:82064**
Herrmann, Hans J. (*with* Stanley, H. E.) The fractal dimension of the minimum path in two- and three-dimensional percolation. **89i:82051**
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Ito, Nobuyasu (*with* Suzuki, Masuo) Fractal configurations of the two- and three-dimensional Ising models at the critical point. **89a:82044**
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Kleinert, H. *see* **Janke, W., 89c:82069**
Kohmoto, Mahito *see* **Sutherland, Bill, 89b:82091**
Krajčí, Marian (*with* Fujiwara, Takeo) Strictly localized eigenstates on a three-dimensional Penrose lattice. **89k:82078**
Kürten, K. E. Critical phenomena in model neural networks. **89d:92031**
Labarta, Amilcar *see* **Garrido, P. L.; et al., 89a:82041**
Lallemand, P. *see* **Clavin, Paul; et al., 89k:76004**
Lebowitz, Joel L. *see* **Wang, Jian-Sheng, 89m:82022**
Leung, P. W. (*with* Henley, Christopher L.; Chester, G. V.) Dodecagonal order in a two-dimensional Lennard-Jones system. **89j:82064**
Lim, H. A. *see* **Guha, A.; et al., 89d:82115**
Marro Borau, Joaquín *see* **Garrido, P. L.; et al., 89a:82041**
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Martin, R. F., Jr. *see* **Friedman, Barry Alan, 89b:82050**
McCullough, W. Scott *see* **Gartenhaus, Solomon, 89b:82105**
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Miranda, E. N. (*with* Parga, N.) Ultrametricity in the Kauffman model: a numerical test. **89b:82143**
Mottishaw, P. *see* **Dewar, Roderick C., 89j:82059**
Naberukhin, Y. I. *see* **Medvedev, N. N.; et al., 89b:82072**
Nakanishi, Hiizu *see* **Nishimori, Hidetoshi, 89b:82116**
Nekrutkin, V. V. (*with* Tur, N. I.) Modeling of a distribution that is the solution of the nonlinear Boltzmann equation. (Russian. English summary) **89g:82040**
Nishimori, Hidetoshi (*with* Nakanishi, Hiizu) Ground state of quantum spin systems on the triangular lattice. **89b:82116**
Osborn, T. R. *see* **Guttmann, A. J., 89d:82074**
Ozorio de Almeida, A. M. *see* **Furuya, Kyoko, 89a:82006**
Palmer, R. G. *see* **Adler, Joan; et al., 89a:82036**
Pan, C. Y. *see* **Chen, Xi Yao, 89d:82136**
Pandey, R. B. (*with* Stauffer, D.; Zabolitzky, J. G.) Monte Carlo evidence for the deviation from the Alexander-Orbach rule in three-dimensional percolation. **89a:82021**
Parga, N. *see* **Miranda, E. N., 89b:82143**
Pearce, Paul A. *see* **Batchelor, M. T.; et al., 89b:82103**
Pertermann, D. (*with* Ranft, J.) Study of $Z(n)$ gauge theories on a three-dimensional pseudorandom lattice. **89f:81144**
Pomeau, Y. *see* **Clavin, Paul; et al., 89k:76004**
Poole, Peter H. (*with* Coniglio, Antonio; Jan, Naeem; Stanley, H. E.) Universality classes of the θ and θ' points. **89j:82054**
Quispel, G. R. W. *see* **Alcaraz, Francisco C.; et al., 89b:82100**
Ranft, J. *see* **Pertermann, D., 89f:81144**
Ravndal, F. *see* **Fjeldsø, N.; et al., 89g:82006**
Rothman, Daniel H. (*with* Keller, Jeffrey M.) Immiscible cellular-automaton fluids. **89i:82005**
Ruijgrok, Th. W. (*with* Cohen, E. G. D.) Deterministic lattice gas models. **89k:82053**
Savit, Robert *see* **Cheng, Zheming, 89b:82138**
Schmitz, Rudolf P. *see* **Jones, Robert B., 89d:82089**
Schoenmaker, B. Analysis of the Migdal transformation for models with planar spins on a d-dimensional lattice. **89f:82093**
Schotte, K. D. *see* **Wolf, M., 89g:82082**
Shadura, V. N. *see* **Bugrii, A. I., 89k:82089**
Shapir, Y. *see* **Guha, A.; et al., 89d:82115**
Sompolinsky, H. *see* **Crisanti, A., 89d:82122**
Stanley, H. E. *see* **Herrmann, Hans J., 89i:82051** *and* **Poole, Peter H.; et al., 89j:82054**
Stauffer, D. *see* **Pandey, R. B.; et al., 89a:82021**
Sutherland, Bill (*with* Kohmoto, Mahito) Resistance of a one-dimensional quasicrystal: power-law growth. **89b:82091**
Suzuki, Masuo *see* **Ito, Nobuyasu, 89a:82044**
Takesue, Shinji Reversible cellular automata and statistical mechanics. **89b:82150**
Tracy, Craig A. Universality classes of some aperiodic Ising models. **89d:82144**
Tur, N. I. *see* **Nekrutkin, V. V., 89g:82040**
Ueda, Akira^2 *see* **Kadowaki, Shinji, 89b:82006**
Vause, Chester A. *see* **Wilson, William G., 89a:82054**
Voloshin, V. P. *see* **Medvedev, N. N.; et al., 89b:82072**
Wang, Jian Bond-diluted rigid animals for central force model. **89c:82064**
Wang, Jian-Sheng (*with* Lebowitz, Joel L.) Phase transitions and universality in nonequilibrium steady states of stochastic Ising models. **89m:82022**
Wierman, John C. Bond percolation critical probability bounds derived by edge contraction. **89f:82045**
Wilson, William G. (*with* Vause, Chester A.) Evidence for universality of the Potts model on the two-dimensional Penrose lattice. **89a:82054**
Wolf, M. (*with* Schotte, K. D.) Ising model with competing next-nearest-neighbour interactions on the Kagomé lattice. **89g:82082**
Zabolitzky, J. G. *see* **Pandey, R. B.; et al., 89a:82021**

82–05 Experimental papers

Knobler, Charles M. (*with* Scott, Robert L.) Multicritical points in fluid mixtures: experimental studies. (*see* **89g:82024**)
Scott, Robert L. *see* **Knobler, Charles M., (89g:82024)**

Items with secondary classifications in 82–05

Kurik, M. V. (*with* Lavrentovich, O. D.) Defects in liquid crystals: homotopy theory and experimental studies. **89i:82071**
Lavrentovich, O. D. *see* **Kurik, M. V., 89i:82071**

82–06 Proceedings, conferences, etc.

(Davydov, A. S.) *see* **Physics of multiparticle systems, 89j:82004**
(Garrido, Luis) *see* **Far from equilibrium phase transitions, 89j:82002**
(Kazakov, D. I.) *see* **Renormalization group, 89k:82003**
(Nikolaĭshvili, Sh. S.) *see* **Approximate methods for solving some problems of the transfer of neutron and gamma radiation, 89b:82003**
(Petrina, D. Ya.) *see* **Mathematical problems in the theory of systems of charged particles in inhomogeneous media, 89j:82003**
(Shirkov, D. V.) *see* **Renormalization group, 89k:82003**
(Souletie, Jean) *see* **Chance and matter, 89j:82001**
(Stora, R.) *see* **Chance and matter, 89j:82001**
(Vannimenus, J.) *see* **Chance and matter, 89j:82001**
(Vladimirov, A. A.) *see* **Renormalization group, 89k:82003**
(Weller, Wolfgang) *see* **Localization in disordered systems, 89f:82003**
(Ziesche, Paul) *see* **Localization in disordered systems, 89f:82003**

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Addendum:
Proceedings of the conference on mathematical methods applied to kinetic equations **[Transport Theory Statist. Phys. 16 (1987), no. 4; MR 88g:82004]** Addendum: *Proceedings of the conference on mathematical methods applied to kinetic equations* [Transport Theory Statist. Phys. **16** (1987), no. 4-6; MR 88g:82004]. **89b:82002**
Approximate methods for solving some problems of the transfer of neutron and gamma radiation ★ Приближенные методы решения некоторых задач переноса нейтронного и гамма излучений. (Russian) [Approximate methods for solving some problems of the transfer of neutron and gamma radiation] **89b:82003**
Bad Schandau ★ Localization in disordered systems. **89f:82003**
Chance and matter ★ Le hasard et la matière. [Chance and matter] **89j:82001**
Conference:
Renormalization Group—86 ★ Renormalization group. **89k:82003**
Statistical Mechanics ★ Far from equilibrium phase transitions. **89j:82002**
Dubna ★ IV Международный Симпозиум по Избранным Проблемам Статистической Механики. (Russian) [IV International Symposium on Selected Topics in Statistical Mechanics] **89g:82003**
— ★ Renormalization group. **89k:82003**
Far from equilibrium phase transitions ★ Far from equilibrium phase transitions. **89j:82002**
Hasard et la matière ★ Le hasard et la matière. [Chance and matter] **89j:82001**
Lecture Notes in Physics ★ Far from equilibrium phase transitions. **89j:82002**
Les Houches ★ Le hasard et la matière. [Chance and matter] **89j:82001**
Localization in disordered systems ★ Localization in disordered systems. **89f:82003**
Mathematical problems in the theory of systems of charged particles in inhomogeneous media ★ Математические проблемы теории систем заряженных частиц в неоднородных средах. (Russian) [Mathematical problems in the theory of systems of charged particles in inhomogeneous media] **89j:82003**
New directions in statistical mechanics ★ New directions in statistical mechanics. **89e:82001**
Physics of multiparticle systems ★ Физика многочастичных систем. Вып. 13. (Russian) [Physics of multiparticle systems. No. 13] **89j:82004**
Renormalization group ★ Renormalization group. **89k:82003**
Santa Barbara, CA ★ New directions in statistical mechanics. **89e:82001**
School:
Theoretical Physics ★ Le hasard et la matière. [Chance and matter] **89j:82001**
Seminar:
Localization in Disordered Systems ★ Localization in disordered systems. **89f:82003**
Sitges ★ Far from equilibrium phase transitions. **89j:82002**
Symposium:
Selected Topics in Statistical Mechanics ★ IV Международный Симпозиум по Избранным Проблемам Статистической Механики. (Russian) [IV International Symposium on Selected Topics in Statistical Mechanics] **89g:82003**
Workshop:
Mathematical Aspects of Nonequilibrium Physics ★ New directions in statistical mechanics. **89e:82001**

Items with secondary classifications in 82–06

(Ball, J. M.) *see* **Material instabilities in continuum mechanics, 89f:73005**
(Batalin, I. A.) *see* **Quantum field theory and quantum statistics, 89b:81007**
(Besseling, J. F.) *see* **Trends in applications of mathematics to mechanics, 89g:58004**
(Domb, C.) *see* **Phase transitions and critical phenomena, 89g:82024**
(Eckhaus, Wiktor) *see* **Trends in applications of mathematics to mechanics, 89g:58004**
(Fradkin, E. S.) *see* **Quantum field theory and quantum statistics, 89b:81007**
(Hargittai, I.) *see* **Crystal symmetries, 89j:00029**
(den Hollander, F.) *see* **Seminar: Probability and Physics, 89e:60005**
(Isham, C. J.) *see* **Quantum field theory and quantum statistics, 89b:81007**
(Jimbo, Michio) *see* **Conformal field theory and solvable lattice models, 89f:81003**
(Kac, Mark) *see* **Seminar: Probability and Physics, 89e:60005**
(Kazakov, D. I.) *see* **Conference: Renormalization Group, 89a:81002**
(Lebowitz, Joel L.) *see* **Phase transitions and critical phenomena, 89g:82024**
(Maassen, Hans) *see* **Seminar: Probability and Physics, 89e:60005**
(Markov, M. A.) *see* **Group-theoretic methods in physics, 89d:81001** *and* **89d:81002**
(Miwa, Tetsuji) *see* **Conformal field theory and solvable lattice models, 89f:81003**

(**Shirkov, D. V.**) *see* **Conference: Renormalization Group, 89a:81002**

(**Shubnikov, A. V.**) *see* **Crystal symmetries, 89j:00029**

(**Truhlar, Donald G.**) *see* **Mathematical frontiers in computational chemical physics, 89f:81004**

(**Tsuchiya, Akihiro**) *see* **Conformal field theory and solvable lattice models, 89f:81003**

(**Udalova, V. V.**) *see* **Crystal symmetries, 89j:00029**

(**Vaĭnshteĭn, B. K.**) *see* **Crystal symmetries, 89j:00029**

(**Vilkoviskiĭ, G. A.**) *see* **Quantum field theory and quantum statistics, 89b:81007**

(**Vladimirov, A. A.**) *see* **Conference: Renormalization Group, 89a:81002**

Items listed otherwise than by author

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Conference:

  Renormalization Group ★ Совещание “Ренормгруппа—86”. (Russian) [Conference “Renormalization Group—86”] **89a:81002**

Conformal field theory and solvable lattice models ★ Conformal field theory and solvable lattice models. **89f:81003**

Crystal symmetries ★ Crystal symmetries. **89j:00029**

Dubna ★ Совещание “Ренормгруппа—86”. (Russian) [Conference “Renormalization Group—86”] **89a:81002**

Edinburgh ★ Material instabilities in continuum mechanics. **89f:73005**

Group-theoretic methods in physics ★ Теоретико-групповые методы в физике. Том 1. (Russian) [Group-theoretic methods in physics. Vol. 1] **89d:81001**

— ★ Теоретико-групповые методы в физике. Том 2. (Russian) [Group-theoretic methods in physics. Vol. 2] **89d:81002**

Jūrmala ★ Теоретико-групповые методы в физике. Том 1. (Russian) [Group-theoretic methods in physics. Vol. 1] **89d:81001**

— ★ Теоретико-групповые методы в физике. Том 2. (Russian) [Group-theoretic methods in physics. Vol. 2] **89d:81002**

Kyoto ★ Conformal field theory and solvable lattice models. **89f:81003**

Material instabilities in continuum mechanics ★ Material instabilities in continuum mechanics. **89f:73005**

Mathematical frontiers in computational chemical physics ★ Mathematical frontiers in computational chemical physics. **89f:81004**

Minneapolis, MN ★ Mathematical frontiers in computational chemical physics. **89f:81004**

Phase transitions and critical phenomena ★ Phase transitions and critical phenomena. Vol. 9. **89g:82024**

Quantum field theory and quantum statistics ★ Quantum field theory and quantum statistics. Vol. 1. **89b:81007**

Seminar:

  Group-Theoretic Methods in Physics ★ Теоретико-групповые методы в физике. Том 1. (Russian) [Group-theoretic methods in physics. Vol. 1] **89d:81001**

  — ★ Теоретико-групповые методы в физике. Том 2. (Russian) [Group-theoretic methods in physics. Vol. 2] **89d:81002**

  Probability and Physics ★ Mark Kac Seminar on Probability and Physics. Syllabus 1985–1987. **89e:60005**

Symposium:

  Conformal Field Theory and Solvable Lattice Models ★ Conformal field theory and solvable lattice models. **89f:81003**

  Material Instabilities in Continuum Mechanics ★ Material instabilities in continuum mechanics. **89f:73005**

  Trends in Applications of Mathematics to Mechanics ★ Trends in applications of mathematics to mechanics. **89g:58004**

Trends in applications of mathematics to mechanics ★ Trends in applications of mathematics to mechanics. **89g:58004**

Wassenaar ★ Trends in applications of mathematics to mechanics. **89g:58004**

Workshop:

  Atomic and Molecular Structure and Dynamics ★ Mathematical frontiers in computational chemical physics. **89f:81004**

82–08 Computational methods

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Khudik, V. N. *see* **Berezin, Yu. A.; et al., 89g:82004**

Lee, Yee Chun *see* **Chen, Hudong; et al., 89g:82005**

Leininger, Gary G. *see* **Chung, Jack C. H.; et al., 89b:82004**

Litt, Maria *see* **Chung, Jack C. H.; et al., 89b:82004**

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Scher, Harvey *see* **Chung, Jack C. H.; et al., 89b:82004**

Schulz, H. J. *see* **Pierre, Laurent; et al., 89b:82008**

Schütz, Gunter *see* **Henkel, Malte, 89k:82005**

Styer, Daniel F. *see* **Rădulescu, Dan C., 89d:82010**

Ueda, Akira^2 *see* **Kadowaki, Shinji, 89b:82006**

Volkov, Yu. A. (*with* Polyudov, A. N.) A discrete model of the Fokker-Planck equation. (Russian) **89d:82011**

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— *see also* **Pan, C. Y., 89k:82083**

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Greengard, Leslie *see* **Carrier, J.; et al., 89e:65008**

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Hénon, Michel Viscosity of a lattice gas. **89h:76005**

Homma, Shigeo *see* **Matsuda, Hirotsugu; et al., 89m:81004**

Honerkamp, J. *see* **Greiner, A.; et al., 89k:60076**

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Korst, Jan H. M. *see* **Aarts, E.; et al., 89d:90086**

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Manneville, Paul *see* **Chaté, Hugues, 89k:76065**

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Migdal, A. A. *see* **Zmushko, V. V., 89j:81151**

Mikhaĭlov, G. A. ★ Методы Монте-Карло для решения задач со случайными параметрами. (Russian) [Monte Carlo methods for solving problems with random parameters] **89h:65013**

Nelson, Paul, Jr. *see* **Keller, H. B., 89h:82060**

Newman, Douglas John *see* **MacKeown, P. K., 89a:65002**

den Nijs, Marcel P. M. *see* **Park, Hyunggyu, 89d:82139**

Nishimori, Hidetoshi *see* **Ozeki, Yukiyasu, 89d:82138**

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— *see also* **Chen, Xi Yao, 89k:82082**

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Rabitz, Herschel *see* **Edelson, David**, (**89f:92003**)

Rokhlin, Vladimir V. *see* **Carrier, J.; et al., 89e:65008**

(Saban, A. Y.) *see* **Yukhnovskiĭ, I. R., 89f:82024**

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Strittmatter, W. *see* **Greiner, A.; et al., 89k:60076**

Venkatesan, C. K. *see* **Sengupta, Ashok, 89g:82089**

(Voitiuk, S. N.) *see* **Yukhnovskiĭ, I. R., 89f:82024**

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82A05 Mathematical general statistical mechanics

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(Chobanov, G. S.) *see* **Dobrushin, R. L., 89g:82007**

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David, François Louis *see* **Duplantier, Bertrand, 89m:82005**

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(Ishizaka, S.) *see* **Science on form, 89g:82013**

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Murthy, Ganpathy N. *see* **Berkovich, A., 89h:82002**

Nijhoff, Frank W. *see* **Maillet, Jean-Michel, 89k:82015**

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Goldstein, Sheldon *see* **Golden, Kenneth M.; et al., 89f:60093**
Golod, P. I. The hidden symmetry of the Landau-Lifshits equation, the hierarchy of higher equations and a dual equation for an asymmetric chiral field. (Russian. English summary) **89e:58059**
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It·s, A. R. *see* **Bikbaev, R. F., 89i:35115**
Jancovici, Bernard *see* **Cornu, Françoise; et al., 89i:82056**
Jasnow, David Renormalization group theory of interfaces. **89d:82040**
(Jaworski, W.) *see* **Paladin, G., 89g:82025**
Jhung, Kwang Hwa Chung *see* **Jhung, Kyu Soo, 89f:82055**
Jhung, Kyu Soo (*with* Jhung, Kwang Hwa Chung) Statistical mechanics of the single occupancy system. **89f:82055**
Jónsson, Thórdur *see* **Ambjørn, Jan; et al., 89b:81164**
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Kesten, Harry *see* **Aizenman, Michael; et al., 89b:82060**
Kim, Doochul *see* **Pearce, Paul A., 89g:82075**
Kirsch, Werner (*with* Simon, Barry) Comparison theorems for the gap of Schrödinger operators. **89b:35127**
Kondepudi, D. K. Microscopic aspects implied by the second law. **89b:82037**
Kotani, Shinichi Link between periodic potentials and random potentials in one-dimensional Schrödinger operators. **89b:81044**
Kotecký, R. *see* **Holický, P.; et al., 89j:82072**
Koukiou, F. (*with* Petritis, D.; Zahradník, M.) Extension of the Pirogov-Sinaĭ theory to a class of quasiperiodic interactions. **89h:82047**
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Lebowitz, Joel L. *see* **Golden, Kenneth M.; et al., 89f:60093**
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Martirosyan, M. R. *see* **Dobrushin, R. L., 89f:60052**
Mather, John N. Modulus of continuity for Peierls's barrier. **89c:58109**
Mayer, Dieter H. (*with* Roepstorff, G.) On the relaxation time of Gauss's continued-fraction map. I. The Hilbert space approach (Koopmanism). **89a:28017**
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Müller, V. F. (*with* Schiemann, J.) Convergence of Migdal-Kadanoff iterations: a simple and general proof. **89m:81125**
Nachtergaele, B. (*with* Slegers, Leo) Construction of equilibrium states for one-dimensional classical lattice systems. (Italian and Russian summaries) **89i:82093**
Newman, C. M. *see* **Aizenman, Michael; et al., 89b:82060**
Nishikawa, Ikuko *see* **Takayasu, Hideki, (89g:82013)**
Novotny, M. A. Equivalence of transfer matrices. **89k:82099**
Olivieri, Enzo On a cluster expansion for lattice spin systems: a finite-size condition for the convergence. **89i:82096**
Orey, Steven *see* **Föllmer, Hans, 89i:60063**
Ott, Edward *see* **Brown, Reggie; et al., 89e:58076**
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Perk, Jacques H. H. *see* **McCoy, Barry M., 89b:81206**
Petritis, D. *see* **Koukiou, F.; et al., 89h:82046** *and* **89h:82047**
Pfister, Charles-Ed. *see* **Fröhlich, Jürg, 89h:82040**
Pinto, Marc A. Morphology of micromagnetics. **89m:58155**
Puchin, Marcel *see* **Tătaru, O. L.; et al., 89d:82096**
Rand, D. A. Universality and renormalisation in dynamical systems. **89j:58082**
Renshaw, Eric The discrete Uhlenbeck-Ornstein process. **89e:60133**
Roepstorff, G. *see* **Mayer, Dieter H., 89a:28017**
Roitvarf, A. A. A two-valued velocity field with a root singularity. (Russian) **89m:82037**
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Schiemann, J. *see* **Müller, V. F., 89m:81125**
Scriven, L. E. *see* **Vanderlick, T. K.; et al., 89c:82047**
Seaton, Katherine A. *see* **Pearce, Paul A., 89g:82076**
Sethuraman, Jayaram *see* **Chaganty, Narasinga Rao, 89a:60072**
Shcherbina, M. V. The spherical limit of n-vector correlations. **89k:82104**
Shlosman, S. B. Estimates for the Ursell functions for fields with attraction. (Russian) **89f:82094**
Simon, Barry *see* **Kirsch, Werner, 89b:35127**
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Slegers, Leo *see* **Nachtergaele, B., 89i:82093**
So, Byon Chol *see* **Yoshida, Takeshi, 89j:58070**
Spencer, Thomas Crawford *see* **Chayes, J. T.; et al., 89a:82026** *and* **Singh, Rajiv R. P., 89e:82012**
Stoenescu, George *see* **Tătaru, O. L.; et al., 89d:82096**
Sütő, András *see* **Gruber, Christian, 89m:82017**
Suzuki, Masuo *see* **Chikyu, Tetsuhiko, 89g:82065**
Szczepański, Janusz The Liouville equation in infinitely-dimensional separable Hilbert space. (Russian summary) **89c:70031**
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Verbeure, A. *see* **Fannes, Mark, 89j:82010**
Vulpiani, A. *see* **Paladin, G., 89g:82025**
Warstat, Volker Absence of phase transition in general one-dimensional hard rod systems with long range interactions. **89d:82146**
Wayne, C. Eugene *see* **Eckmann, J.-P., 89m:58120**
Wittwer, Peter *see* **Eckmann, J.-P., 89b:58131**
Yan, Feng Li *see* **Li, Bo Zang,** (Not in MR)
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Zahradník, M. *see* **Koukiou, F.; et al., 89h:82046; 89h:82047** *and* **Holický, P.; et al., 89j:82072**
Zessin, Hans On the asymptotic behaviour of the free gas and its fluctuations in the hydrodynamical limit. **89k:60161**

82A15 Mathematical quantum statistical mechanics

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Balsara, N. P. *see* **Nauman, E. B., 89g:82017**
Bandyopadhyay, Pratul *see* **Ghosh, Pradip, 89d:82030**
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Kennedy, Tom *see* **Affleck, Ian; et al., 89d:82025**

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Reshetikhin, N. Yu. *see* **Bogolyubov, N. M.; et al., 89a:81115**

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Romero-Rochin, Victor *see* **Oppenheim, Irwin, 89c:82025**

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82A25 Phase transitions; critical phenomena; renormalization group

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— *see also* **Decker, Karsten; et al., 89g:82022b**

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van Hemmen, J. L. *see* **van Enter, Aernout C. D.; et al., 89e:82004**

Hu, Jia Zhen *see* **Tang, Kun Fa, 89c:82019**

Iba, Yukito (*with* Akutsu, Yasuhiro; Kaneko, Kunihiko) Phase transitions in 2-dimensional stochastic cellular automata. (*see* **89g:82013**)

Janssen, H. K. (*with* Schaub, B.; Schmittmann, B.) Finite size scaling for directed percolation and related stochastic evolution processes. **89e:82005**

Jasnow, David Renormalization group theory of interfaces. **89d:82040**

Kandel, Daniel Analysis of a dynamic renormalization-group technique. **89d:82041**

Kaneko, Kunihiko *see* **Iba, Yukito; et al., (89g:82013)**

Karasev, V. P. *see* **Gorelik, V. S., 89f:82018**

Khoruzhenko, B. A. *see* **Pastur, L. A., 89c:82017**

Klein, David (*with* Yang, Wei-Shih) Absence of phase transitions for continuum models of dimension $d > 1$. **89f:82019**

— (*with* Yang, Wei-Shih) Phase transition for a one-dimensional lattice gas with hard core. **89k:82033**

Knops, H. J. F. *see* **Thijssen, J. M., 89h:82009**

Koch, Hans (*with* Wittwer, Peter) The unstable manifold of a nontrivial RG fixed point. (*see* **89g:81002**)

Koptsik, V. A. (*with* Chechin, G. M.) Color symmetry and representations of space groups in the theory of phase transitions. (Russian) (*see* **89d:81001**)

Korenblit, I. Ya. (*with* Shender, E. F.) Magnetic properties of frustrated antiferromagnets. Phase transition into spin glass. **89f:82020**

Korshunov, S. E. (*with* Uimin, G. V.) Exact solutions in the two-dimensional wetting problem. **89k:82034**

Kotzev, J. N. (*with* Aleksandrova, D. A.) Space color groups with a one-color lattice and their application in the analysis of phase transitions. (Russian) (*see* **89d:81001**)

Kozlovskiĭ, M. P. The domain of applicability of renormalization group relations in the description of second-order phase transition. (Russian. English summary) **89f:82021**

Kraĭzman, I. L. (*with* Sakhnenko, V. P.; Chechin, G. M.) Symmetry classification of multicomponent order parameters taking into account the incommensurable phases. (Russian) (*see* **89d:81001**)

Kuni, F. M. (*with* Novozhilova, T. Yu.; Terent′ev, I. A.) Kinetic equations of heterogeneous condensation. **89c:82014**

— (*with* Melikhov, A. A.) A method of complete separation of variables in the kinetics of multidimensional phase transitions. (Russian) **89m:82018**

Kupiainen, A. *see* **Bricmont, J., 89h:82007**

Kuramoto, Yoshiki *see* **Sakaguchi, Hidetsugu; et al., 89d:82043**

Lage, E. J. S. Critical dynamics of the one-dimensional BEG model. **89a:82013**

Langer, J. S. Lectures in the theory of pattern formation. (*see* **89j:82001**)

Lebowitz, Joel L. *see* **Wang, Jian-Sheng, 89m:82022** *and* **Phase transitions and critical phenomena, 89g:82024**

Lerner, È. Yu. (*with* Missarov, M. D.) Fixed points of the Kadanoff renormalization group. (Russian) **89g:82023**

Lipowsky, Reinhard *see* **Gelfand, Martin P., 89b:82026**

Löwen, H. Absence of phase transitions in Holstein systems. **89c:82015**

Ludwig, Andreas W. W. (*with* Cardy, John L.) Perturbative evaluation of the conformal anomaly at new critical points with applications to random systems. **89b:82027**

— Critical behavior of the two-dimensional random q-state Potts model by expansion in $(q - 2)$. **89f:82022**

Martins, Márcio J. *see* **Alcaraz, Francisco C., 89e:82003**

Mattis, Michael Correlations in 2-dimensional critical theories. **89b:82028**

Melikhov, A. A. *see* **Kuni, F. M., 89m:82018**

Missarov, M. D. *see* **Lerner, È. Yu., 89g:82023**

Molinari, Luca Phase structure of matrix models through orthogonal polynomials. **89c:82016**

Monastyrskiĭ, M. I. *see* **Bogomolov, F. A., 89i:82023**

Morillo, M. *see* **Bonilla, L. L.; et al., 89f:82014** *and* **89k:82028**

Naudts, J. Distributions with the Lee-Yang property. (*see* **89e:60005**)

Novozhilova, T. Yu. *see* **Kuni, F. M.; et al., 89c:82014**

Obukhov, S. P. The upper critical dimension and ε-expansion for self-organized critical phenomena. (*see* **89j:00034**)

Okada, Kenkichi Generalized phase rule and possible singular point sets in physical systems. **89f:82023**

Onishchuk, V. A. *see* **Ovchinnikov, A. A., 89m:82019**

Ovchinnikov, A. A. (*with* Onishchuk, V. A.) Solution of the kinetic Ising-Kac model. **89m:82019**

Pasche, J. *see* **de Forcrand, Philippe; et al., 89i:82024**

Pastur, L. A. (*with* Khoruzhenko, B. A.) Phase transitions in quantum models of rotators and ferroelectrics. (Russian. English summary) **89c:82017**

Patrascioiu, Adrian (*with* Seiler, Erhard) Different perspective of the Kosterlitz-Thouless phase transition. **89b:82029**

Petritis, D. *see* **de Forcrand, Philippe; et al., 89i:82024**

Pietronero, L. (*with* Evertsz, C.; Siebesma, A. P.) Fractal and multifractal structures in kinetic critical phenomena. **89d:82042**

Pospiech, C. *see* **van Enter, Aernout C. D.; et al., 89e:82004**

Reinicke, P. Analytical and nonanalytical corrections to finite-size scaling. **89c:82018**

Requardt, Manfred Wall and gravitational effects on the fine structure of interface layers of two-phase coexistence: some rigorous results. **89i:82025**

Rodgers, G. J. (*with* Bray, A. J.) Critical behaviour of Dyson's hierarchical model with a random field. **89h:82008**

Rucklidge, Alastair (*with* Zaleski, Stéphane) A microcanonical model for interface formation. **89j:82019**

Rühl, W. The critical behaviour of an $O(N)$ Heisenberg model on finite three-dimensional lattices to the order N^{-1}. **89b:82030**

Ruiz, Jean *see* **De Coninck, Joël, 89c:82013**

(Saban, A. Y.) *see* **Yukhnovskiĭ, I. R., 89f:82024**

Sakaguchi, Hidetsugu (*with* Shinomoto, Shigeru; Kuramoto, Yoshiki) Phase transitions and their bifurcation analysis in a large population of active rotators with mean-field coupling. **89d:82043**

Sakhnenko, V. P. *see* **Kraĭzman, I. L.; et al., (89d:81001)**

Salas, J. *see* **González-Arroyo, A., 89k:82031**

Saleur, H. *see* **Di Francesco, P.; et al., 89b:82024** *and* **89d:82038**

Schaub, B. *see* **Janssen, H. K.; et al., 89e:82005**

Schmittmann, B. *see* **Janssen, H. K.; et al., 89e:82005**

Seiler, Erhard *see* **Patrascioiu, Adrian, 89b:82029**

Shakhnovich, E. I. (*with* Grosberg, A. Yu.) The dynamic renormalization group method in the statistical theory of bipolymers. (Russian. English summary) (*see* **89a:81002**)

Shender, E. F. *see* **Korenblit, I. Ya., 89f:82020**

Shenker, Stephen H. An elementary introduction to critical phenomena. (*see* **89m:81001**)

Shinomoto, Shigeru *see* **Sakaguchi, Hidetsugu; et al., 89d:82043**

Siebesma, A. P. *see* **Pietronero, L.; et al., 89d:82042**

Šilhavý, M. On the admissibility of shocks and propagating phase boundaries in a van der Waals fluid. (*see* **89f:73005**)

Sinaĭ, Ya. G. *see* **Dinaburg, E. I., 89k:82029**

Sugiyama, Yūki *see* **Yokota, Terufumi, 89a:82016**

Sütő, András *see* **Gruber, Christian, 89m:82017**

Suzuki, Masuo Power-series CAM theory. **89a:82014**

— Continued-fraction CAM theory. **89b:82031**

— Statistical mechanical theory of cooperative phenomena. II. Super-effective-field theory with applications to exotic phase transitions. **89j:82020**

Taguchi, Yoshi-hiro Lacunarity and universality. **89b:82032**

— Self-avoiding walks on Sierpiński carpets. **89j:82021**

Tang, Chao (*with* Bak, Per) Mean field theory of self-organized critical phenomena. **89j:82022**

Tang, Kun Fa (*with* Hu, Jia Zhen) Critical behaviour of surfaces on hierarchical lattices. **89c:82019**

Tarnawski, Maciek An algorithmic construction of low-temperature phase diagrams for layered systems. **89m:82020**

Tasaki, Hal Geometric critical exponent inequalities for general random cluster models. **89a:82015**

Terent′ev, I. A. *see* **Kuni, F. M.; et al., 89c:82014**

Thijssen, J. M. (*with* Knops, H. J. F.) Low temperature renormalisation study of the chiral clock model. **89h:82009**
Tonchev, N. S. *see* **Brankov, I. G., 89j:82018**
Tornau, E. *see* **Zubkus, V. E., 89b:82035**
Uĭmin, G. V. *see* **Korshunov, S. E., 89k:82034**
Upton, P. J. *see* **Abraham, D. B., 89i:82022**
Viana, L. Infinite-component spin-glass model in the low-temperature phase. **89d:82044**
Visintin, A. Surface tension effects in phase transition. **89m:82021**
(Voitiuk, S. N.) *see* **Yukhnovskiĭ, I. R., 89f:82024**
Vvedensky, D. D. Invariants, characteristics and global geometry of large-n renormalisation group trajectories. **89b:82033**
Wang, Jian-Sheng (*with* Lebowitz, Joel L.) Phase transitions and universality in nonequilibrium steady states of stochastic Ising models. **89m:82022**
Weissman, Haim (*with* Havlin, Shlomo) Dynamics in multiplicative processes. **89b:82034**
Wittwer, Peter *see* **Koch, Hans**, (**89g:81002**)
Yang, Wei-Shih *see* **Klein, David, 89f:82019** *and* **89k:82033**
Yeomans, J. M. *see* **Armitstead, K., 89d:82036a; 89d:82036b** *and* **89d:82036c**
Yokota, Terufumi (*with* Sugiyama, Yūki) Reentrant phase transitions in a quantum spin system with random fields. **89a:82016**
Yukhnovskiĭ, I. R. ★ Phase transitions of the second order. **89f:82024**
Zaleski, Stéphane *see* **Rucklidge, Alastair, 89j:82019**
Zamolodchikov, Aleksandr B. Integrals of motion in scaling 3-state Potts model field theory. **89f:82025**
Zin′kovskaya, T. V. (*with* Zmievskaya, G. I.) A numerical stochastic model for the formation of clusters. (Russian) **89k:82035**
Zmievskaya, G. I. *see* **Zin′kovskaya, T. V., 89k:82035**
Zuber, J.-B. *see* **Di Francesco, P.; et al., 89b:82024** *and* **89d:82038**
Zubkus, V. E. (*with* Tornau, E.) Thermodynamic properties of twenty-vertex models. (Russian. English summary) **89b:82035**

Items listed otherwise than by author

Phase transitions and critical phenomena ★ Phase transitions and critical phenomena. Vol. 9. **89g:82024**

Items with secondary classifications in 82A25

Abraham, D. B. (*with* Newman, C. M.) Wetting in a three-dimensional system: an exact solution. **89m:82068**
Adzhemyan, L. Ts. (*with* Vasil′ev, A. N.; Gnatich, M.) A turbulent dynamo as the spontaneous breakdown of symmetry. (Russian. English summary) **89d:76017**
— (*with* Vasil′ev, A. N.; Gnatich, M.) The renormalization group approach in turbulence theory: renormalization and critical dimensions of composite operators of the energy-momentum tensor. **89c:76071**
Affleck, Ian *see* **Marston, J. Brad, 89a:82029**
de Aguiar, F. S. (*with* Bosco, F. A.; Goulart Rosa, S., Jr.) Yang-Lee zeros of the Ising model on the closed Cayley tree. **89a:82037**
Aharony, Amnon *see* **Meir, Yigal; et al., 89k:82058**
Aizenman, Michael Rigorous studies of critical behavior. II. **89a:82003**
— General results in percolation theory. **89d:82081**
— (*with* Chayes, J. T.; Chayes, L.; Newman, C. M.) Discontinuity of the magnetization in one-dimensional $1/|x-y|^2$ Ising and Potts models. **89f:82072**
Aksenov, V. L. (*with* Bobeth, M.; Plakida, N. M.) Nonergodic behavior in the Ising model with a transverse field. **89i:82081**
Alexandrova, D. A. *see* **Kotzev, J. N., 89k:20070**
Alikakos, Nicholas D. (*with* Bates, Peter W.) On the singular limit in a phase field model of phase transitions. (French summary) **89h:35109**
Alstrøm, Preben (*with* Trunfio, Paul; Stanley, H. E.) Self-organized criticality: the origin of fractal growth. (*see* **89j:00034**)
(Arcuri, R.) *see* **Olive, D. I., 89c:17027**
Artuso, Roberto Logarithmic strange sets. **89i:82113**
— (*with* Cvitanović, Predrag; Kenny, Brian G.) Phase transitions on strange irrational sets. **89k:28003**
Ashraff, J. A. (*with* Southern, B. W.) Density of states and dynamic scaling on the Vicsek snowflake fractal. **89k:82087**
— (*with* Stinchcombe, R. B.) Exact decimation approach to the Green's functions of the Fibonacci-chain quasicrystal. **89b:82089**
Aubry, Serge *see* **Axel, Françoise, 89a:82024**
Avignon, M. *see* **Spronken, G., 89k:82106**
Axel, Françoise (*with* Aubry, Serge) Polarisation and transition by breaking of analyticity in a one-dimensional model for incommensurate structures in an electric field. **89a:82024**
Baake, Michael Branching rules for unitary representations of Virasoro and super-Virasoro algebras at $c=1$. **89i:17013**
Bagchi, Biman (*with* Rice, Stuart A.) On the stability of the infinite-dimensional fluid of hard hyperspheres: a statistical mechanical estimate of the density of closest packing of simple hypercubic lattices in spaces of large dimensionality. **89b:82068**
Bak, Per (*with* Tang, Chao; Wiesenfeld, Kurt) Self-organized criticality. **89g:58126**
Bałaban, Tadeusz (*with* Imbrie, John Z.; Jaffe, Arthur) Effective action and cluster properties of the abelian Higgs model. **89e:81077**
Bardakci, K. (*with* Rabinovici, E.; Säring, B.) String models with $c<1$ components. **89f:81159**
Batchelor, M. T. (*with* Blöte, Henk W. J.) Conformal invariance and critical behavior of the O(n) model on the honeycomb lattice. **89m:82071**
— *see also* **Hamer, C. J., 89a:82043** *and* **89g:82069**
Bates, Peter W. *see* **Alikakos, Nicholas D., 89h:35109**
Baxter, Rodney James *see* **Choy, T. C., 89b:82113**
Behn, U. (*with* Zagrebnov, V. A.) One-dimensional Markovian-field Ising model: physical properties and characteristics of the discrete stochastic mapping. **89j:82024**
Bilal, Adel (*with* Gervais, Jean-Loup) Liouville superstring and Ising model in three dimensions. **89e:81137**
Binder, K. (*with* Heermann, Dieter W.) ★ Monte Carlo simulation in statistical physics. **89i:82002**
— *see also* **Desai, Rashmi C.; et al., 89k:82004**
Bitar, Khalil M. Partition function for finite-temperature lattice SU(2) gauge theory. A novel investigation of the phase transition. **89d:81081**
Blöte, Henk W. J. (*with* den Nijs, Marcel P. M.) Corrections to scaling at two-dimensional Ising transitions. **89j:81149**
— *see also* **Batchelor, M. T., 89m:82071**
Bobeth, M. *see* **Aksenov, V. L.; et al., 89i:82081**
Bogolyubov, N. M. (*with* Izergin, A. G.; Reshetikhin, N. Yu.) Finite-size effects and critical indices of 1D quantum models. **89a:81115**
Bosco, F. A. *see* **de Aguiar, F. S.; et al., 89a:82037**
Bovin, V. P. (*with* Shneĭberg, I. Ya.) Magnetization in the Ising model on hierarchical lattices. **89h:82044**
Bray, A. J. Dynamics of dilute magnets above T_c. **89a:82039**
Bricmont, J. (*with* Kupiainen, A.) The renormalization group and the random field Ising model. **89i:82083**
Bugriĭ, A. Ī. (*with* Shadura, V. N.) The method of finite-ordered chains for determining critical surfaces in two-dimensional spin models. (Russian. English summary) **89k:82089**
Caginalp, G. Mathematical models of phase boundaries. (*see* **89f:73005**)
— (*with* Fife, P. C.) Dynamics of layered interfaces arising from phase boundaries. **89d:80009**
Cao, Ke Fei *see* **Peng, Shou Li, 89g:58137**
Capel, H. W. *see* **Elezović-Hadžić, S.; et al., 89f:82039**
Cardy, John L. Continuously varying exponents and the value of the central charge. **89c:81081**
— Universal amplitude in the sizes of rings in two dimensions. **89i:82077**
Caticha, Nestor Limit theorems for spin systems with an abelian discrete symmetry. **89m:82072**
Chaganty, Narasinga Rao (*with* Sethuraman, Jayaram) Limit theorems in the area of large deviations for some dependent random variables. **89a:60072**
Chandler, David ★ Introduction to modern statistical mechanics. **89d:82001**
Chang, I. Shou (*with* Shapir, Y.) Tricritical points of trails, their Euler digraphs and graphs: exact results on the Sierpiński gasket. **89j:82051**
Chayes, J. T. *see* **Aizenman, Michael; et al., 89f:82072**
Chayes, L. *see* **Aizenman, Michael; et al., 89f:82072**
Chikyu, Tetsuhiko (*with* Suzuki, Masuo) A simple example of exactly solvable models with reentrant phenomena. **89g:82065**
Chopard, Bastien *see* **Droz, Michel, 89i:82114**
Chou, Weiren *see* **Yokoi, Carlos S. O.; et al., 89a:82055**
Choy, T. C. (*with* Baxter, Rodney James) Spontaneous magnetizations of the Ising model on the Union Jack lattice. **89b:82113**
Chvoj, Z. Description of nonstationary processes in the framework of stochastic theory and its application on the phase transformation. **89c:82023**
Collins, John C. ★ Перенормировка. (Russian) [Renormalization] **89d:81072**
Comets, Francis (*with* Eisele, Th.) Asymptotic dynamics, noncritical and critical fluctuations for a geometric long-range interacting model. **89m:60250**
Coniglio, Antonio *see* **Poole, Peter H.; et al., 89j:82054**
Csordás, A. *see* **Szépfalusy, P.; et al., 89i:58098**
Curado, Evaldo M. F. *see* **Hauser, Paulo R., 89i:82088**
Cvitanović, Predrag *see* **Artuso, Roberto; et al., 89k:28003**
Daido, Hiroaki Population dynamics of randomly interacting self-oscillators. I. Tractable models without frustration. **89d:92057**
Dannevik, William P. (*with* Yakhot, Victor; Orszag, Steven A.) Analytical theories of turbulence and the ε expansion. **89h:76021**
De'Bell, K. *see* **Essam, J. W.; et al., 89i:82049**
De Coninck, Joël (*with* Dunlop, François) Partial to complete wetting: a microscopic derivation of the Young relation. **89a:82005**
— (*with* Messager, Alain; Miracle-Sole, S.; Ruiz, Jean) A study of perfect wetting for Potts and Blume-Capel models with correlation inequalities. **89m:82073**
Desai, Rashmi C. (*with* Heermann, Dieter W.; Binder, K.) Finite-size scaling in a microcanonical ensemble. **89k:82004**
Dobrushin, R. L. (*with* Martirosyan, M. R.) The possibility of high-temperature phase transitions due to the many-particle character of the potential. **89j:82005**
van Dongen, P. G. J. (*with* Ernst, M. H.) Scaling solutions of Smoluchowski's coagulation equation. **89h:82065**
Dotsenko, Vl. S. Off the critical point by perturbation: the Ising model spin-spin correlator. **89j:82069**
Droz, Michel (*with* Chopard, Bastien) Nonequilibrium phase transitions and cellular automata. **89i:82114**
Drugowich de Felício, J. R. *see* **Martins, Márcio J., 89c:82074**
Dunlop, François (*with* Ruiz, Jean) Noncrossing walks and interfacial wetting. (French summary) **89i:82078**
— *see also* **De Coninck, Joël, 89a:82005**
Duplantier, Bertrand (*with* Saleur, H.) Exact critical properties of two-dimensional dense self-avoiding walks. **89g:82049**
— Intersections of random walks. A direct renormalization approach. **89i:60139**
— Tricritical disorder transition of polymers in a cloudy solvent: annealed randomness. **89i:82067**
— (*with* Kostov, Ivan) Conformal spectra of polymers on a random surface. **89k:82067**
Efetov, K. B. Anderson transition on a Bethe lattice (the symplectic and orthogonal ensembles). **89d:82097**
Eisele, Th. *see* **Comets, Francis, 89m:60250**
Elezović-Hadžić, S. (*with* Milošević, S.; Capel, H. W.; Wiersma, G. L.) Exact renormalization group treatment of the piecewise directed random walks on fractals. **89f:82039**
Ermilov, A. N. Ordering and phase transitions in the frozen Potts model. (Russian) (*see* **89g:82003**)
Ernst, M. H. *see* **van Dongen, P. G. J., 89h:82065**
Erzan, Ayşe *see* **Pietronero, L.; et al., 89i:82073**
Essam, J. W. (*with* Guttmann, A. J.; De'Bell, K.) On two-dimensional directed percolation. **89i:82049**
Evertsz, C. *see* **Pietronero, L.; et al., 89i:82073**

Faris, William G. Localization estimates for a random discrete wave equation at high frequency. **89b:82056**
Fateev, V. A. (*with* Lykyanov, S. L.) The models of two-dimensional conformal quantum field theory with Z_n symmetry. **89b:81186**
Fedorov, Ya. V. Order-parameter function in a spin glass on a Bethe lattice. **89f:82056**
Feĭgel′man, M. V. *see* **Vinokur, V. M.; et al., 89k:82076**
Fife, P. C. *see* **Caginalp, G., 89d:80009**
Fisher, Michael Ellis *see* **Singh, Rajiv R. P.; et al., 89k:82105**
Forgács, G. (*with* Luck, J. M.; Nieuwenhuizen, Th. M.; Orland, H.) Exact critical behavior of two-dimensional wetting problems with quenched disorder. **89i:82068**
Forrester, P. J. Solvable isotherms for a two-component system of charged rods on a line. **89j:82070**
Fröhlich, Jürg (*with* Pfister, Charles-Ed.) Semi-infinite Ising model. II. The wetting and layering transitions. **89h:82040**
Gallavotti, Giovanni Renormalization theory and group in mathematical physics. **89d:81074**
Garrido, P. L. (*with* Labarta, Amilcar; Marro Borau, Joaquín) Stationary nonequilibrium states in the Ising model with locally competing temperatures. **89a:82041**
— (*with* Marro Borau, Joaquín) Ising models with anisotropic interactions: stationary nonequilibrium states with a nonuniform temperature profile. **89f:82077**
Gawędzki, K. Renormalization: from magic to mathematics. **89d:81075**
Georgii, Hans-Otto ★ Gibbs measures and phase transitions. **89k:82010**
Gervais, Jean-Loup *see* **Bilal, Adel, 89e:81137**
Gnatich, M. *see* **Adzhemyan, L. Ts.; et al., 89c:76071** *and* **89d:76017**
Goldschmidt, Yadin Y. Mean-field theory of the Potts spin-glass with finite connectivity. **89i:82070**
(Gomes, J. F.) *see* **Olive, D. I., 89c:17027**
Goulart Rosa, S., Jr. *see* **de Aguiar, F. S.; et al., 89a:82037**
Grosse, H. ★ Models in statistical physics and quantum field theory. **89i:82001**
Grundland, A. M. *see* **Winternitz, P.; et al., 89c:35145** *and* **Skierski, M.; et al., 89i:58161**
Guha, A. *see* **Lim, H. A.; et al., 89a:82047**
Gunaratne, Gemunu H. (*with* Procaccia, Itamar) Organization of chaos. **89b:58133**
Guttmann, A. J. *see* **Essam, J. W.; et al., 89i:82049**
Haas, Tobias M. A numerical study of the phase structure of the q-state generalization of the hard-square model. (Not in MR)
Haken, Hermann Nonequilibrium phase transitions in pattern recognition and associative memory. **89e:92012**
Hamer, C. J. (*with* Quispel, G. R. W.; Batchelor, M. T.) Conformal anomaly and surface energy for Potts and Ashkin-Teller quantum chains. **89g:82069**
— (*with* Batchelor, M. T.) Some finite-size amplitudes and critical exponents for Potts and Ashkin-Teller quantum chains. **89a:82043**
Hara, Takashi (*with* Tasaki, Hal) Rigorous renormalization group analysis of φ^4 field theory. **89d:81055**
— *see also* **Tasaki, Hal, 89f:82054**
Harris, A. Brooks *see* **Meir, Yigal; et al., 89k:82058**
Hattori, Kumiko *see* **Hattori, Tetsuya, 89i:82087**
Hattori, Tetsuya (*with* Hattori, Kumiko) POP approximation to the spectral dimension of dual three-dimensional Sierpiński carpets. **89i:82087**
Hauser, Paulo R. (*with* Curado, Evaldo M. F.) Potts ferromagnet: transformations and critical exponents in planar hierarchical lattices. **89i:82088**
Heermann, Dieter W. *see* **Binder, K., 89i:82002** *and* **Desai, Rashmi C.; et al., 89k:82004**
Hendriks, E. On a model of spatially homogeneous polymerization with a phase transition. **89m:82052**
Henkel, Malte (*with* Schütz, Gunter) Finite-lattice extrapolation algorithms. **89k:82005**
Herrmann, Hans J. *see* **da Silva, Luciano R.; et al., 89c:82076**
Höglund, Thomas A one-dimensional model with phase transition. **89m:82076**
Holický, P. (*with* Kotecký, R.; Zahradník, M.) Rigid interfaces for lattice models at low temperatures. **89j:82072**
Hu, Jia Zhen *see* **Tang, Kun Fa, 89a:82053** *and* **89b:82124**
Hwa, Terence *see* **Medina, Ernesto; et al., 89m:82027**
Iglói, F. (*with* Zittartz, J.) Quantum Ising model with staggered interaction. **89b:82110**
Imbrie, John Z. (*with* Newman, C. M.) An intermediate phase with slow decay of correlations in one-dimensional $1/|x-y|^2$ percolation, Ising and Potts models. **89g:82070**
— *see also* **Bałaban, Tadeusz; et al., 89e:81077**
Inayat-Hussain, A. A. New properties of hypergeometric series derivable from Feynman integrals. I. Transformation and reduction formulae. **89b:81058**
Ioffe, L. B. *see* **Vinokur, V. M.; et al., 89k:82076**
Ishida, Kazuhiro Exact method for nonlinear fermions on finite lattice: two dimensions. **89h:81152**
Ito, Keiichi R. Renormalization group methods on hierarchical lattices and beyond. **89i:81100**
— Renormalization group method on a hierarchical lattice of Dyson-Wilson type. **89g:81061**
Ito, Nobuyasu (*with* Suzuki, Masuo) Fractal configurations of the two- and three-dimensional Ising models at the critical point. **89a:82044**
Itzykson, C. Critical two-dimensional statistical systems: conformal and modular invariance. **89i:82017**
Izergin, A. G. *see* **Bogolyubov, N. M.; et al., 89a:81115**
Izuyama, Takeo *see* **Suzuki, Junji, 89d:82095**
Izyumov, Yu. A. (*with* Skryabin, Yu. N.) ★ Статистическая механика магнитоупорядоченных систем. (Russian) [Statistical mechanics of magneto-ordered systems] **89j:82073**
Jaffe, Arthur *see* **Bałaban, Tadeusz; et al., 89e:81077**
Jan, Naeem *see* **Poole, Peter H.; et al., 89j:82054**
Janse van Rensburg, E. J. Resistance of the Edwards walk. **89c:82060**
Johannesson, Henrik Universality classes of critical antiferromagnets. **89k:82096**
Kamlesh *see* **Kumar, Deepak, 89a:82046**
Kardar, Mehran Replica Bethe ansatz studies of two-dimensional interfaces with quenched random impurities. **89f:82058**
— (*with* Nelson, David R.) Statistical mechanics of self-avoiding tethered manifolds. **89f:82052**
— *see also* **Medina, Ernesto; et al., 89m:82027**
Katsura, Shigetoshi Errata: "Theory of spin glass by the method of the distribution function of an effective field" [Progr. Theoret. Phys. Suppl. No. 87 (1986), 139–154; MR 88d:82090]. **89c:82057**
(Kazakov, D. I.) *see* **Conference: Renormalization Group, 89a:81002**
Kenny, Brian G. *see* **Artuso, Roberto; et al., 89k:28003**
Kertész, J. Morphological transitions in pattern growth phenomena. (*see* **89j:00034**)
Khoruzhenko, B. A. *see* **Pastur, L. A., 89i:82020**
Kim, Doochul *see* **Pearce, Paul A., 89g:82075**
Kislinskiĭ, V. B. (*with* Yukalov, V. I.) Crossover between short- and long-range interactions in the one-dimensional Ising model. **89c:82070**
Klinger, David J. Shape of the binodal curves at a critical endpoint. **89k:80008**
Ko, Lee-Fen Spin-spin correlation function in the two-dimensional Ising model with linear defects. I. $T < T_c$. **89m:82079a**
— Spin-spin correlation function in the two-dimensional Ising model with linear defects. II. $T > T_c$. **89m:82079b**
Kobayashi, S. I. *see* **Lee, Chahn, 89m:82082**
Korepin, V. E. Exactly solvable spin models in quasicrystals. **89a:82045**
Kornilov, E. I. (*with* Priezzhev, V. B.) Solution of the Kasteleyn model on a half plane. **89j:82006**
Kostov, Ivan (*with* Krzywicki, A.) On the entropy of random surfaces with arbitrary genus. **89a:81104**
— *see also* **Duplantier, Bertrand, 89k:82067**
Kotecký, R. (*with* Miracle-Sole, S.) Roughening transition for the Ising model on a BCC lattice. A case in the theory of ground states. **89h:82045**
— *see also* **Holický, P.; et al., 89j:82072**
Kotzev, J. N. (*with* Alexandrova, D. A.) Full tables of colour space groups with colour-preserving translations. **89k:20070**
Koukiou, F. (*with* Petritis, D.; Zahradník, M.) Extension of the Pirogov-Sinaĭ theory to a class of quasiperiodic interactions. **89h:82047**
— (*with* Petritis, D.; Zahradník, M.) Low-temperature phase diagram for models with small quasiperiodic interactions. **89h:82046**
Kovács, Z. *see* **Szépfalusy, P.; et al., 89i:58098**
Kratky, Karl W. Is the percolation transition of hard spheres a thermodynamic phase transition? **89i:82052**
Krzywicki, A. *see* **Kostov, Ivan, 89a:81104**
Kumar, Deepak (*with* Kamlesh) Mode condensation in a hierarchical system. **89a:82046**
Kunz, Hervé (*with* Wu, F. Y.) Exact results for an $\mathrm{O}(n)$ model in two dimensions. **89m:82081**
Kupiainen, A. *see* **Bricmont, J., 89i:82083**
Kuramoto, Yoshiki (*with* Nishikawa, Ikuko) Statistical macrodynamics of large dynamical systems. Case of a phase transition in oscillator communities. **89c:82078**
Labarta, Amilcar *see* **Garrido, P. L.; et al., 89a:82041**
Larkin, A. I. *see* **Vinokur, V. M.; et al., 89k:82076**
Le Bellac, Michel ★ Des phénomènes critiques aux champs de jauge. (French) [From critical phenomena to gauge fields] **89h:81003**
Lee, Chahn (*with* Kobayashi, S. I.) Exact dynamical behavior near the critical point in the transverse Ising model. **89m:82082**
Lee, I-Hsiu (*with* Shrock, Robert E.) High-temperature series analysis of an $\mathrm{O}(2)$-symmetric spin model with discretely valued interaction on 2D lattices. **89d:82132**
Lee, M. Howard Thermodynamics of phase transitions in metal cluster systems. **89c:82021**
Liao, Wuwell Towards the solution of the graph bipartitioning problem. **89a:82028**
Lim, H. A. (*with* Guha, A.; Shapir, Y.) Nonperturbative tricritical exponents of trails. I. Exact enumeration on a triangular lattice. **89a:82047**
Lin, K'ê Ying (*with* Wang, Sun Chong) Spontaneous magnetization of the Ising model on a Union Jack lattice. **89b:82112**
— Ising model on a checkerboard lattice in a magnetic field $H = \frac{1}{2}i\pi kT$. **89d:82133**
— *see also* **Wu, F. Y., 89d:82147**
Löwen, H. A note on the existence of phase transitions in finite-site Peierls-Hubbard systems. **89i:81151**
Lucena, Liacir S. *see* **da Silva, Luciano R.; et al., 89c:82076**
Luck, J. M. *see* **Forgács, G.; et al., 89i:82068**
Luo, Xiao Bo *see* **Zhang, Jie**^{2}, (Not in MR)
Lykyanov, S. L. *see* **Fateev, V. A., 89b:81186**
Ma, Ai Qun *see* **Xia, De Yong, 89i:81164**
MacKay, R. S. (*with* van Zeijts, J. B. J.) Period doubling for bimodal maps: a horseshoe for a renormalisation operator. **89d:58096**
MacKenzie, R. Topological structures on domain walls. **89i:81072**
Manchester, F. D. *see* **Marsiglio, F., 89e:58016**
Marchenko, V. I. Theory of the phase transition of He^3 into the superfluid state. **89d:81134**
Marro Borau, Joaquín *see* **Garrido, P. L.; et al., 89a:82041** *and* **89f:82077**
Marsiglio, F. (*with* Manchester, F. D.) On spinodals and catastrophes. **89e:58016**
Marston, J. Brad (*with* Affleck, Ian) Symplectic Landau-Ginzburg fixed points and the localization problem. **89a:82029**
Martins, Márcio J. (*with* Drugowich de Felício, J. R.) Phase diagram of the N-colour Ashkin-Teller model. **89c:82074**
Martirosyan, M. R. *see* **Dobrushin, R. L., 89j:82005**
Mazel′, A. E. The Ising model on a face-centered cubic lattice at low temperatures. **89f:82086**
McCoy, Barry M. (*with* Perk, Jacques H. H.) Relation of conformal field theory and deformation theory for the Ising model. **89b:81206**
Medina, Ernesto (*with* Hwa, Terence; Kardar, Mehran; Zhang, Yi Cheng) Burgers' equation with correlated noise: renormalization-group analysis and applications to directed polymers and interface growth. **89m:82027**
Meir, Yigal (*with* Aharony, Amnon; Harris, A. Brooks) Percolation in negative field and lattice animals. **89k:82058**
Melbourne, Ian A singularity theory analysis of bifurcation problems with octahedral symmetry. **89f:58034**
Messager, Alain *see* **De Coninck, Joël; et al., 89m:82073**
Miękisz, Jacek Classical lattice gas model with a unique nondegenerate but unstable periodic ground state configuration. **89a:82048**
Milošević, S. *see* **Elezović-Hadžić, S.; et al., 89f:82039**

Miracle-Sole, S. *see* **Kotecký, R., 89h:82045** *and* **De Coninck, Joël; et al., 89m:82073**
Modica, Luciano Gradient theory of phase transitions with boundary contact energy. (French summary) **89c:76108**
Monroe, James L. The coherent anomaly method applied to a variety of Ising models. **89i:82091**
Nelson, David R. *see* **Selinger, Jonathan V., 89d:82106** *and* **Kardar, Mehran, 89f:82052**
Newman, C. M. *see* **Aizenman, Michael; et al., 89f:82072; Imbrie, John Z., 89g:82070** *and* **Abraham, D. B., 89m:82068**
Nguyen, Bao Gia Gap exponents for percolation processes with triangle condition. **89e:60202**
Nieuwenhuizen, Th. M. *see* **Forgács, G.; et al., 89i:82068**
den Nijs, Marcel P. M. *see* **Park, Hyunggyu, 89d:82139** *and* **Blöte, Henk W. J., 89j:81149**
Nishikawa, Ikuko *see* **Kuramoto, Yoshiki, 89c:82078**
Nishimori, Hidetoshi *see* **Ozeki, Yukiyasu, 89d:82138**
Novick-Cohen, A. On the viscous Cahn-Hilliard equation. (*see* **89f:73005**)
Nozieres, Philippe Physique statistique. [Statistical physics] **89i:81156**
Olive, D. I. Kac-Moody and Virasoro algebras in local quantum physics. **89c:17027**
Orland, H. *see* **Forgács, G.; et al., 89i:82068**
Orszag, Steven A. (*with* Yakhot, Victor) Renormalization group analysis of turbulence. **89e:76055**
— *see also* **Dannevik, William P.; et al., 89h:76021**
Otwinowski, M. On statistical thermodynamics of multicomponent systems. I, II. **89d:82046**
Ozeki, Yukiyasu (*with* Nishimori, Hidetoshi) Distribution of Yang-Lee zeros of the $\pm J$ Ising model. **89d:82138**
Park, Hyunggyu (*with* den Nijs, Marcel P. M.) Universal finite-size-scaling amplitudes of the Potts model on a torus. **89d:82139**
Pastur, L. A. (*with* Khoruzhenko, B. A.) Existence of long-range order in some quantum systems. (Russian) **89i:82020**
Pearce, Paul A. (*with* Kim, Doochul) Continuously varying exponents in magnetic hard squares. **89g:82075**
— (*with* Seaton, Katherine A.) A classical theory of hard squares. **89j:82076**
— (*with* Seaton, Katherine A.) Solvable hierarchy of cyclic solid-on-solid lattice models. **89g:82076**
Pękalski, Andrzej Phase diagrams of two inhomogeneous Ising models on the triangular lattice. **89j:82077**
Peng, Shou Li (*with* Cao, Ke Fei) A new global regularity of fractal dimensions on critical points of transitions to chaos. **89g:58137**
Penrose, O. *see* **Pfister, Charles-Ed., 89d:82140**
Perk, Jacques H. H. *see* **McCoy, Barry M., 89b:81206**
Petritis, D. *see* **Koukiou, F.; et al., 89h:82046** *and* **89h:82047**
Pfister, Charles-Ed. (*with* Penrose, O.) Analyticity properties of the surface free energy of the Ising model. **89d:82140**
— *see also* **Fröhlich, Jürg, 89h:82040**
Pietronero, L. (*with* Erzan, Ayşe; Evertsz, C.) Theory of Laplacian fractals: diffusion limited aggregation and dielectric breakdown model. **89i:82073**
Pinto, Marc A. Morphology of micromagnetics. **89m:58155**
Plakida, N. M. *see* **Aksenov, V. L.; et al., 89i:82081**
Plascak, J. A. *see* **Verona de Resende, H. F.; et al., 89d:82145**
Poole, Peter H. (*with* Coniglio, Antonio; Jan, Naeem; Stanley, H. E.) Universality classes of the θ and θ' points. **89j:82054**
Priezzhev, V. B. *see* **Kornilov, E. I., 89j:82006**
Privman, V. (*with* Švrakić, N. M.) Restoration of universality for the rod-to-coil transition scaling in the infinite-dimensionality limit: exact results for directed walks. **89c:82049**
Procaccia, Itamar *see* **Gunaratne, Gemunu H., 89b:58133**
Pugnetti, Sergio Renormalization group equations in the stochastic quantization scheme. **89f:81052**
Quispel, G. R. W. *see* **Hamer, C. J.; et al., 89g:82069**
Rabinovici, E. *see* **Bardakci, K.; et al., 89f:81159**
Radosz, Andrzej A pseudo-Goldstone mode in the exactly solvable model of phase transitions. **89c:82075**
Rădulescu, Dan C. (*with* Styer, Daniel F.) The Dobrushin-Shlosman phase uniqueness criterion and applications to hard squares. **89d:82010**
Reinicke, P. Finite-size scaling functions and conformal invariance. **89b:82120**
Reshetikhin, N. Yu. *see* **Bogolyubov, N. M.; et al., 89a:81115**
Rice, Stuart A. *see* **Bagchi, Biman, 89b:82068**
Ruiz, Jean *see* **Dunlop, François, 89i:82078** *and* **De Coninck, Joël; et al., 89m:82073**
Ryzhov, V. N. (*with* Tareeva, E. E.) A microscopic description of bond orientation order in simple fluids. (Russian. English summary) **89d:82091**
Sá Barreto, F. C. *see* **Verona de Resende, H. F.; et al., 89d:82145**
Sakaguchi, Hidetsugu Phase transitions in coupled Bernoulli maps. **89i:58067**
Saleur, H. Correlation functions of the critical Ashkin-Teller model on a torus. **89h:82053**
— *see also* **Duplantier, Bertrand, 89g:82049**
Šamaj, L. An improved theory of higher-order correlations for an Ising model with general spin. **89h:82054**
Säring, B. *see* **Bardakci, K.; et al., 89f:81159**
Schoenmaker, B. Analysis of the Migdal transformation for models with planar spins on a d-dimensional lattice. **89f:82093**
Schöll, E. ★ Nonequilibrium phase transitions in semiconductors. **89c:58118**
Schütz, Gunter *see* **Henkel, Malte, 89k:82005**
Seaton, Katherine A. *see* **Pearce, Paul A., 89g:82076** *and* **89j:82076**
Selinger, Jonathan V. (*with* Nelson, David R.) Theory of hexatic-to-hexatic transitions. **89d:82106**
Sethuraman, Jayaram *see* **Chaganty, Narasinga Rao, 89a:60072**
Shabahang, R. Mean wave solution: bounded medium—discrete scatterers. **89b:78014**
Shadura, V. N. *see* **Bugriĭ, A. I., 89k:82089**
Shankar, Ramamunti *see* **Singh, Rajiv R. P.; et al., 89k:82105**
Shapir, Y. *see* **Lim, H. A.; et al., 89a:82047** *and* **Chang, I. Shou, 89j:82051**
(Shirkov, D. V.) *see* **Conference: Renormalization Group, 89a:81002**
Shneĭberg, I. Ya. *see* **Bovin, V. P., 89h:82044**
Shrock, Robert E. *see* **Lee, I-Hsiu, 89d:82132**
Sikora, W. Applications of the symmetry analysis method to structural and magnetic phase transitions in hexagonal manganites, ErB_4 and FeSiO_4 compounds. (*see* **89k:81002**)
da Silva, Luciano R. (*with* Herrmann, Hans J.; Lucena, Liacir S.) Simulations of mixtures of two Boolean cellular automata rules. **89c:82076**
Singh, Rajiv R. P. (*with* Fisher, Michael Ellis; Shankar, Ramamunti) Spin-$\frac{1}{2}$ antiferromagnetic XXZ chain: new results and insights. **89k:82105**
Skierski, M. (*with* Grundland, A. M.; Tuszyński, J. A.) Symmetry reduction for the three-dimensional Landau-Ginzburg equation. **89i:58161**
Skryabin, Yu. N. *see* **Izyumov, Yu. A., 89j:82073**
Sluckin, T. J. A Potts model for the herringbone transition. **89c:82077**
(Smirnov, Vladimir Aleksandrovich^3) *see* **Collins, John C., 89d:81072**
Southern, B. W. *see* **Ashraff, J. A., 89k:82087**
Spronken, G. (*with* Avignon, M.) The one-dimensional dimerised spin-$\frac{1}{2}$ XY chain with arbitrary boundary conditions and related unitary and nonunitary models. **89k:82106**
Stamenković, S. (*with* Tonchev, N. S.; Zagrebnov, V. A.) Exactly soluble model for structural phase transition with a Gaussian type anharmonicity. **89d:82035**
Stanley, H. E. *see* **Poole, Peter H.; et al., 89j:82054** *and* **Alstrøm, Preben; et al., (89j:00034)**
Stella, A. L. (*with* Vanderzande, C.) Scaling and fractal dimension of Ising clusters at the $d = 2$ critical point. **89k:82107**
Stinchcombe, R. B. *see* **Ashraff, J. A., 89b:82089**
Styer, Daniel F. *see* **Rădulescu, Dan C., 89d:82010**
Suzuki, Junji (*with* Izuyama, Takeo) Statistical mechanics of polymer melting transition. **89d:82095**
Suzuki, Masuo CAM estimates of critical exponents of spin glasses and percolation. **89f:82062**
— *see also* **Ito, Nobuyasu, 89a:82044** *and* **Chikyu, Tetsuhiko, 89g:82065**
Švrakić, N. M. *see* **Privman, V., 89c:82049**
Szépfalusy, P. (*with* Tél, T.; Csordás, A.; Kovács, Z.) Phase transitions associated with dynamical properties of chaotic systems. **89i:58098**
Tang, Chao *see* **Bak, Per; et al., 89g:58126**
Tang, Kun Fa (*with* Hu, Jia Zhen) A renormalization group approach for Ising spin systems. (Chinese. English summary) **89b:82124**
— (*with* Hu, Jia Zhen) Critical properties of the anisotropic Ising model on three-node hierarchical lattices. **89a:82053**
Tang, Lei-Han *see* **Yokoi, Carlos S. O.; et al., 89a:82055**
Tao, Rui Bao Studies of the spectral dimension for branched Koch curves. **89d:58088**
Tareeva, E. E. *see* **Ryzhov, V. N., 89d:82091**
Tasaki, Hal (*with* Hara, Takashi) Critical behavior in a system of branched polymers. **89f:82054**
— Critical phenomena and critical dimension in percolation. (*see* **89g:81002**)
— *see also* **Hara, Takashi, 89d:81055**
Tél, T. *see* **Szépfalusy, P.; et al., 89i:58098**
Teodorovich, È. V. Turbulent transfer phenomena, and the renormalization group method. (Russian) (Not in MR)
Tonchev, N. S. *see* **Stamenković, S.; et al., 89d:82035**
Tracy, Craig A. Universality classes of some aperiodic Ising models. **89d:82144**
Trunfio, Paul *see* **Alstrøm, Preben; et al., (89j:00034)**
Tuszyński, J. A. *see* **Winternitz, P.; et al., 89c:35145** *and* **Skierski, M.; et al., 89i:58161**
Vanderzande, C. *see* **Stella, A. L., 89k:82107**
Vasil′ev, A. N. *see* **Adzhemyan, L. Ts.; et al., 89c:76071** *and* **89d:76017**
Verona de Resende, H. F. (*with* Sá Barreto, F. C.; Plascak, J. A.) Renormalization group treatment of the mixed-spin system in d-dimensional lattices. **89d:82145**
Vinokur, V. M. (*with* Ioffe, L. B.; Larkin, A. I.; Feĭgel′man, M. V.) System of Josephson junctions as a model of a spin glass. **89k:82076**
(Vladimirov, A. A.) *see* **Conference: Renormalization Group, 89a:81002**
Wang, Sun Chong *see* **Lin, K'ê Ying, 89b:82112**
Weiss, Richard A. Thermodynamic gauge theory of solids and quantum liquids with internal phase. **89d:82047**
Widom, B. Scaling of the surface tension of phase-separated polymer solutions. **89j:82055**
Wiersma, G. L. *see* **Elezović-Hadžić, S.; et al., 89f:82039**
Wiesenfeld, Kurt *see* **Bak, Per; et al., 89g:58126**
Winternitz, P. (*with* Grundland, A. M.; Tuszyński, J. A.) Exact solutions of the multidimensional classical φ^6-field equations obtained by symmetry reduction. **89c:35145**
Wolff, Ulli Lattice field theory as a percolation process. **89b:82009**
Wollkind, David J. (*with* Zhang, B.) A nonlinear stability analysis of a fixed-boundary model equation for alloy solidification. **89k:80021**
Wood, D. W. The algebraic construction of partition function zeros: universality and algebraic cycles. **89d:82119**
Wu, F. Y. (*with* Lin, K'ê Ying) Spin models with multiple disorder points. **89d:82147**
— *see also* **Kunz, Hervé, 89m:82081**
Xia, De Yong (*with* Ma, Ai Qun) The applications of catastrophe theory to the study of nonequilibrium phase transitions. (Chinese) **89i:81164**
Yakhot, Victor *see* **Orszag, Steven A., 89e:76055** *and* **Dannevik, William P.; et al., 89h:76021**
Yang, Zhan Ru Family of diamond-type hierarchical lattices. **89d:82148**
Yokoi, Carlos S. O. (*with* Tang, Lei-Han; Chou, Weiren) Ground state of the one-dimensional chiral XY model in a field. **89a:82055**
Yukalov, V. I. *see* **Kislinskiĭ, V. B., 89c:82070**
Zagrebnov, V. A. *see* **Stamenković, S.; et al., 89d:82035** *and* **Behn, U., 89j:82024**
Zahradník, M. Analyticity of low-temperature phase diagrams of lattice spin models. **89f:82096**
— *see also* **Koukiou, F.; et al., 89h:82046; 89h:82047** *and* **Holický, P.; et al., 89j:82072**
(Zav′yalov, O. I.) *see* **Collins, John C., 89d:81072**
van Zeijts, J. B. J. *see* **MacKay, R. S., 89d:58096**
Zhang, B. *see* **Wollkind, David J., 89k:80021**
Zhang, Jie^2 (*with* Luo, Xiao Bo) The application of catastrophe theory to solid state transitions in metals. (Chinese) (Not in MR)
Zhang, Yi Cheng *see* **Medina, Ernesto; et al., 89m:82027**
Zittartz, J. *see* **Iglói, F., 89b:82110**

Items listed otherwise than by author

Conference:
Renormalization Group ★ Совещание “Ренормгруппа—86”. (Russian) [Conference “Renormalization Group—86”] **89a:81002**
Dubna ★ Совещание “Ренормгруппа—86”. (Russian) [Conference “Renormalization Group—86”] **89a:81002**

82A30 Statistical thermodynamics [see also 80–XX]

Balazs, N. L. *see* **Wycoff, David, 89b:82038**
Cataldo, H. M. (*with* Hernández, E. S.) Memory loss process and non-Gibbsian equilibrium solutions of master equations. **89k:82036**
Chakrabarti, C. G. *see* **Mukhopadhyay, Violet, 89f:82026**
Chen, Hsin Hsiung (*with* Peng, C. K.) Size dependence of virial coefficients for classical gases. **89c:82020**
Cserti, J. (*with* Kertész, J.) Asymptotic number of needles in Laplacian growth. **89d:82045**
Duffield, N. G. (*with* Pulé, J. V.) A new method for the thermodynamics of the BCS model. **89i:82026**
Gorunovich, V. V. (*with* Rebenko, A. L.) Mathematical description of a system of charged particles near the surface of a porous membrane. **89b:82036**
Grmela, Miroslav Methods of nonequilibrium statistical mechanics in molecular simulations. (*see* **89d:00007**)
Hernández, E. S. *see* **Cataldo, H. M., 89k:82036**
(Jaworski, W.) *see* **Paladin, G., 89g:82025**
Kertész, J. *see* **Cserti, J., 89d:82045**
Kondepudi, D. K. Microscopic aspects implied by the second law. **89b:82037**
Lavenda, B. H. (*with* Scherer, Claudio) The statistical-inference approach to generalized thermodynamics. I. Statistics. (Italian summary) **89k:82037a**
— (*with* Scherer, Claudio) The statistical-inference approach to generalized thermodynamics. II. Thermodynamics. (Italian summary) **89k:82037b**
Lee, M. Howard Thermodynamics of phase transitions in metal cluster systems. **89c:82021**
Lévy, Laurent P. (*with* Ogielski, Andrew T.) Dissipation in nonlinear response. **89m:82023**
Melikyan, A. O. (*with* Saakyan, S. M.) A method for calculating the partition function of a system of phonons taking into account anharmonicity. **89i:82027**
Mukhopadhyay, Violet (*with* Chakrabarti, C. G.) On the statistics of open system with slowly varying processes. **89f:82026**
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Saakyan, S. M. *see* **Melikyan, A. O., 89i:82027**
Scherer, Claudio *see* **Lavenda, B. H., 89k:82037a** *and* **89k:82037b**
Thirring, W. E. *see* **Narnhofer, H., 89j:82023**
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82A31 Stochastic methods

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Romero-Rochin, Victor *see* **Oppenheim, Irwin, 89c:82025**
Schulman, L. S. *see* **Gaveau, Bernard, 89e:82006**
Schulze, Henrik *see* **Hegerfeldt, Gerhard C., 89h:82011**
Schumacher, W. *see* **Der, R., 89k:82039**
Schuss, Z. *see* **Kłosek-Dygas, M. M.; et al., 89b:82040**
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Skinner, J. L. *see* **Budimir, J., 89c:82022**
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Items with secondary classifications in 82A31

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Montgomery, David *see* **Hatori, Tadatsugu, 89d:76033**
Morillo, M. *see* **Bonilla, L. L.; et al., 89f:82014** *and* **89k:82028**
Nakamura, Atsushi *see* **Matsui, Tetsuo, 89c:81009**
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Sauermann, Herwig *see* **Just, Wolfram, 89i:82011**
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Schöll, E. *see* **Schlögl, F., 89i:58068**
Shibata, Fumiaki *see* **Maruyama, Kishiko, 89e:60162**
Smirnov, S. N. *see* **Lukshin, An. V., 89i:82038**
Sokal, Alan D. *see* **Lawler, Gregory F., 89h:60105**
Sompolinsky, H. *see* **Crisanti, A., 89d:82122**
Stroock, Daniel W. *see* **Holley, Richard, 89e:82013**
Szépfalusy, P. *see* **Bene, J., 89d:82121**
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Westcott, M. *see* **Gates, D. J., 89e:82010a** *and* **89e:82010b**
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Zmievskaya, G. I. *see* **Zin′kovskaya, T. V., 89k:82035**
(Zubarev, D. N.) *see* **Horsthemke, Werner, 89d:82002**

82A35 Irreversible thermodynamics, including Onsager-Machlup theory

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Bisio, Giacomo Some cases of systems with maximum entropy production in the steady state. (Italian. English and French summaries) **89j:82028**
Bohm, David The implicate order and Prigogine's notions of irreversibility. **89b:82041**
Bonitz, M. *see* **Klimontovich, Yu. L., 89g:82034**
Casas-Vázquez, J. *see* **Jou, D.; et al., 89k:82044**
Chakrabarti, C. G. On nonequilibrium entropy and irreversibility. **89d:82059**
Chu, Fu Ming (*with* Fang, Fu Kang; Jiang, Lu) The operator method for solving the moment equation of Fokker-Planck equation. **89d:82060**
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Dürr, Detlef *see* **de Smedt, Ph.; et al., 89i:82030**
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Fang, Fu Kang *see* **Chu, Fu Ming; et al., 89d:82060**
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Klimontovich, Yu. L. The evolution of entropy in self-organization processes. The H-theorem and the S-theorem. (Russian) **89b:82045**
— (*with* Bonitz, M.) Evolution of the entropy of stationary states in self-organization processes in the control parameter space. **89g:82034**
Kociszewski, A. *see* **Jaworski, W., 89d:82062**
Koganov, G. A. *see* **Khazanov, A. M.; et al., 89k:82045**
Lebon, G. *see* **Jou, D.; et al., 89k:82044**
Lebowitz, Joel L. *see* **de Smedt, Ph.; et al., 89i:82030**
Lendi, K. Measure of irreversibility and entropy production in open quantum systems. **89d:82063**
Lindenberg, Katja *see* **West, Bruce J., 89f:82030**
Liverani, C. *see* **de Smedt, Ph.; et al., 89i:82030**
Luciani, J.-F. (*with* Verga, A. D.) Bistability driven by correlated noise: functional integral treatment. (Not in MR)
Luke, Jon C. A simple example related to the time-reversal paradox. **89g:82035**
Makowski, Adam J. Time ordering of a cumulant expansion and master equations. **89i:82029**
Mareschal, M. *see* **Prigogine, Ilya; et al.,** (**89g:92002**)
Medina-Noyola, M. (*with* del Rio, Jose Luis) The fluctuation-dissipation theorem for non-Markov processes and their contractions: the role of the stationarity condition. **89c:82028**
Mignani, Roberto *see* **Jannussis, A. D., 89k:82043**
Minin, O. V. La version variationnelle de fluctuation de la conduction thermique dans le contexte du parcours le plus probable. (English summary) [The variational version of the fluctuation of the thermal conduction in the context of the most probable path] **89g:82036**
Morriss, G. P. Dimensional contraction in nonequilibrium systems. **89j:82030**
Oppenheim, Irwin *see* **Romero-Rochin, Victor, 89j:82032**
Otero, D. *see* **Aliaga, J.; et al., 89f:82029**
Pires, A. S. T. The memory function formalism in the study of the dynamics of a many body system. **89j:82031**
Plastino, A. *see* **Aliaga, J.; et al., 89f:82029**
Presutti, Errico (*with* Wick, W. David) Macroscopic stochastic fluctuations in a one-dimensional mechanical system. **89m:82029**
Prigogine, Ilya (*with* Kestemont, E.; Mareschal, M.) Velocity correlations and irreversibility: a molecular dynamics approach. (*see* **89g:92002**)
— *see also* **Bohm, David, 89b:82041** *and* **Glansdorff, P., 89b:82043**
Proto, A. N. *see* **Aliaga, J.; et al., 89f:82029**
Protopopescu, V. On the Fokker-Planck equation with force term. **89a:82019**
del Rio, Jose Luis *see* **Medina-Noyola, M., 89c:82028**
Rogankov, V. B. A dynamic model of fluctuation nonequilibrium thermodynamics. (Russian) **89b:82046**
Romero-Rochin, Victor (*with* Oppenheim, Irwin) Relaxation properties of weakly coupled classical systems. **89j:82032**
Röpke, Gerd ★ Statistische Mechanik für das Nichtgleichgewicht. (German) [Nonequilibrium statistical mechanics] **89g:82037**
de Smedt, Ph. The quantum Langevin equation and its stationary state. (*see* **89e:60005**)
— (*with* Dürr, Detlef; Lebowitz, Joel L.; Liverani, C.) Quantum system in contact with a thermal environment: rigorous treatment of a simple model. **89i:82030**
Streater, R. F. Linear and nonlinear stochastic processes. (*see* **89i:81004**)
Titulaer, U. M. *see* **Hubmer, G. F., 89d:82061**
Verga, A. D. *see* **Luciani, J.-F.,** (Not in MR)
West, Bruce J. (*with* Lindenberg, Katja) State-dependent fluctuations in open systems: simple models. **89f:82030**
Wick, W. David *see* **Presutti, Errico, 89m:82029**
Yu, Ming Bao Volterra equation formalism for response theory. **89d:82064**
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Items with secondary classifications in 82A35

Anthony, K.-H. Entropy and dynamical stability—a method due to Lagrange-formalism and applied to thermodynamics of irreversible processes. **89k:80007**
Arecchi, F. T. Shil′nikov chaos in lasers. **89h:58110**
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Balazs, N. L. *see* **Wycoff, David, 89g:82031a; 89g:82031b** *and* **89g:82031c**
Bar′yakhtar, V. G. (*with* Ivanov, B. A.; Sukstans′kiĭ, O. L.; Tartakovskaya, E. V.) Nonequilibrium thermodynamics of a kink-type soliton gas in quasi-one-dimensional systems. **89d:82087**
Bavaud, François Statistical mechanics of viscoelasticity. **89a:73031**
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Busse, H.-G. (*with* Havsteen, B.) Analysis of life processes and economic systems by methods of thermodynamics. (*see* **89g:92002**)
Caglioti, Giuseppe The world of Escher and physics. (*see* **89m:00011**)
Casado, J. M. *see* **Bonilla, L. L.; et al., 89f:82014**
Chakrabarti, C. G. *see* **Mukhopadhyay, Violet, 89f:82026**
Clark, John W. Statistical mechanics of neural networks. **89g:92013**
Dandoloff, R. (*with* Pomeau, Y.) Fluctuations in "metastable" systems. **89c:94047**
Dimino, G. M. *see* **Kaufman, J. H.; et al., 89k:82071**
(Escher, M. C.) *see* **Caglioti, Giuseppe,** (**89m:00011**)
Ferrari, Pablo Augusto (*with* Presutti, Errico; Vares, M. E.) Nonequilibrium fluctuations for a zero range process. (French summary) **89k:60158**
Fujisaka, Hirokazu (*with* Inoue, Masayoshi) Theory of diffusion and intermittency in chaotic systems. III. New approach to temporal correlations. **89a:58069**
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Garrido, P. L. (*with* Marro Borau, Joaquín) Ising models with anisotropic interactions: stationary nonequilibrium states with a nonuniform temperature profile. **89f:82077**
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Goodrich, R. K. *see* **Gustafson, K. E., 89c:58068**
Grandy, Walter T., Jr. ★ Foundations of statistical mechanics. Vol. II. **89j:82090**
Gustafson, K. E. (*with* Goodrich, R. K.) Kolmogorov systems and Haar systems. **89c:58068**
Havsteen, B. *see* **Busse, H.-G.,** (**89g:92002**)
Hill, Terrell L. ★ An introduction to statistical thermodynamics. **89f:82001**
Inoue, Masayoshi *see* **Fujisaka, Hirokazu, 89a:58069**
Ivanov, B. A. *see* **Bar′yakhtar, V. G.; et al., 89d:82087**
Kaufman, J. H. (*with* Melroy, O. R.; Dimino, G. M.) Information-theoretic study of pattern formation: rate of entropy production of random fractals. **89k:82071**
Korsch, H. J. (*with* Steffen, H.) Dissipative quantum dynamics, entropy production and irreversible evolution towards equilibrium. **89a:81037**
Marro Borau, Joaquín *see* **Garrido, P. L., 89f:82077**
Martínez, Servet A. (*with* Tirapegui, E.) The role of stable manifolds and information in the Prigogine theory of irreversibility. **89d:58072**
Melroy, O. R. *see* **Kaufman, J. H.; et al., 89k:82071**
Morillo, M. *see* **Bonilla, L. L.; et al., 89f:82014**
Mukhopadhyay, Violet (*with* Chakrabarti, C. G.) On the statistics of open system with slowly varying processes. **89f:82026**
Niwa, Toshio On the law of entropy increasing of a one-dimensional infinite system. **89b:82015**
Picci, Giorgio Application of stochastic realization theory to a fundamental problem of statistical physics. **89c:93066**
Pitaevskiĭ, L. P. *see* **Ginzburg, V. L., 89e:82002**
Pomeau, Y. *see* **Dandoloff, R., 89c:94047**
Presutti, Errico *see* **Ferrari, Pablo Augusto; et al., 89k:60158**
Sinaĭ, Ya. G. Dynamics of local equilibrium Gibbs distributions and Euler equations. The one-dimensional case. **89g:82011**
Steffen, H. *see* **Korsch, H. J., 89a:81037**
Sukstans′kiĭ, O. L. *see* **Bar′yakhtar, V. G.; et al., 89d:82087**
Takesue, Shinji Reversible cellular automata and statistical mechanics. **89b:82150**
Tartakovskaya, E. V. *see* **Bar′yakhtar, V. G.; et al., 89d:82087**
Tirapegui, E. *see* **Martínez, Servet A., 89d:58072**
Vares, M. E. *see* **Ferrari, Pablo Augusto; et al., 89k:60158**
Verhás, J. A thermodynamic theory for turbulence. (*see* **89g:58004**)
Wycoff, David (*with* Balazs, N. L.) Multiple time scales analysis for the Kramers-Chandrasekhar equation. **89g:82031a**
— (*with* Balazs, N. L.) Multiple time scales analysis for the Kramers-Chandrasekhar equation with a weak magnetic field. **89g:82031b**
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82A40 Kinetic theory of gases

Arkeryd, Leif The nonlinear Boltzmann equation far from equilibrium. (*see* **89m:03060**)

— Existence theorems for certain kinetic equations and large data. **89h:82014**
— Stability in L^1 for the spatially homogeneous Boltzmann equation. **89h:82015**
Arlotti, L. On the linear transport equation for rigid spheres. **89k:82047**
Arsen′ev, A. A. (*with* Buryak, O. E.) On a connection between the solution of the Boltzmann equation and the solution of the Landau-Fokker-Planck equation. (Russian) **89j:82033**
— Approximation of the Boltzmann equation by stochastic equations. (Russian) **89g:82038**
Banach, Zbigniew On the fundamentals of extended thermodynamics (ET) of a one-dimensional rarefied gas. **89c:82029**
Bellomo, N. (*with* Lachowicz, M.) Kinetic equations for dense gases—a review of physical and mathematical results. **89b:82047**
— (*with* Lachowicz, M.) On the asymptotic equivalence between the Enskog and the Boltzmann equations. **89h:82016**
Bernstein, M. (*with* Percus, J. K.) Expansion into a vacuum: a one-dimensional model. **89d:82065**
Binder, P. M. Lattice models of the Lorentz gas: physical and dynamical properties. **89c:82030**
— *see also* **Ernst, M. H.**, **89i:82035**
Boffi, V. C. (*with* Spiga, G.) Spatial effects in the study of nonlinear evolution problems of particle transport theory. **89i:82031**
Bogomolov, S. V. Convergence of the method of summary approximation for the Boltzmann equation. **89d:82066**
— (*with* Lebedev, V. A.) Convergence of the Euler difference scheme for the solution of a system of stochastic differential equations in the particle method for the Boltzmann equation. (Russian) **89f:82031**
Branchina, Vincenzo *see* **Majorana, Armando**, **89i:82039**
Buryak, O. E. *see* **Arsen′ev, A. A.**, **89j:82033**
Cabannes, Henri (*with* Dang Hong Tiem) Exact solutions for some discrete models of the Boltzmann equation. **89d:82067**
— (*with* Kawashima, Shuichi) Le problème aux valeurs initiales en théorie cinétique discrète. (English summary) [The initial-value problem in discrete kinetic theory] **89m:82030**
Cercignani, Carlo (*with* Illner, Reinhard; Shinbrot, Marvin) A boundary value problem for discrete-velocity models. **89d:82068**
— Global existence of solutions for a model Boltzmann equation. **89f:82032**
— Nonlinear problems in the kinetic theory of gases. (*see* **89g:58004**)
— (*with* Illner, Reinhard; Shinbrot, Marvin) A boundary value problem for the two-dimensional Broadwell model. **89c:82031**
— Small data existence for the Enskog equation in L^1. **89i:82032**
— (*with* Illner, Reinhard; Pulvirenti, Mario; Shinbrot, Marvin) On nonlinear stationary half-space problems in discrete kinetic theory. **89i:82033**
— Existence of homoenergetic affine flows for the Boltzmann equation. **89j:82034**
Cohen, E. G. D. *see* **Ruijgrok, Th. W.**, **89k:82053** *and* **de Schepper, I. M.; et al.**, **89m:82039**
Cornille, Henri Nouvelles solutions exactes à $1+1$ dimensions de modèles discrétisés de l'équation de Boltzmann. (English summary) [New exact solutions in $1+1$ dimensions of discrete models of the Boltzmann equation] **89m:82031**
— Exact $(2+1)$-dimensional solutions for two discrete velocity Boltzmann models with four independent densities. **89f:82033**
— Exact $1+1$ dimensional solutions of the discrete velocity Broadwell-Boltzmann model. **89c:82032**
— Construction of positive $(2+1)$-dimensional solutions for three discrete Boltzmann models. **89j:82035**
— Exact solutions for discrete kinetic models with ternary collisions. **89f:82034**
— Construction of positive exact $(2+1)$-dimensional shock wave solutions for two discrete Boltzmann models. **89j:82036**
— Exact solutions for the discrete Boltzmann models with specular reflection. **89i:82034**
Dang Hong Tiem *see* **Cabannes, Henri**, **89d:82067**
DiPerna, Ronald (*with* Lions, Pierre-Louis) Solutions globales de l'équation de Boltzmann. (English summary) [Global solutions of the Boltzmann equation] **89b:82048**
Dorning, J. J. *see* **Holloway, James Paul**, **89d:82070**
Dudyński, Marek (*with* Ekiel-Jeżewska, Maria L.) On the linearized relativistic Boltzmann equation. I. Existence of solutions. **89h:82017**
— The Boltzmann-Lorentz model for particles with spin. III. The Grad method of moments. **89j:82037**
Dukek, G. (*with* Spiga, G.) Similarity solutions in space dependent extended kinetic theory. (German summary) **89j:82038**
— *see also* **Rupp, D.; et al.**, **89h:82023**
Eder, O. J. (*with* Posch, Maximilian) Solution of the one-dimensional linear Boltzmann equation for charged Maxwellian particles in an external field. **89m:82032**
— *see also* **Foidl, Ch.; et al.**, **89b:82049**
Ekiel-Jeżewska, Maria L. *see* **Dudyński, Marek**, **89h:82017**
Ènder, A. Ya. *see* **Kolyshkin, I. N.; et al.**, **89m:82035**
Ènder, I. A. *see* **Kolyshkin, I. N.; et al.**, **89m:82035**
Ernst, M. H. (*with* Binder, P. M.) Lorentz lattice gases: basic theory. **89i:82035**
Ferland, R. (*with* Giroux, Gaston) The p-q model Boltzmann equation: convergence of the solution. **89d:82069**
Foidl, Ch. (*with* Kasperkovitz, P.; Eder, O. J.) Inhomogeneous hard rod systems: comparison of theoretical and numerical results. **89b:82049**
Friedman, Barry Alan (*with* Martin, R. F., Jr.) Behavior of the velocity autocorrelation function for the periodic Lorentz gas. **89b:82050**
Frisch, Uriel (*with* Rivet, Jean-Pierre) Gaz sur réseau pour l'hydrodynamique: formule de Green-Kubo. (English summary) [Lattice gas hydrodynamics: the Green-Kubo formula] **89k:82048**
Garzó, V. On the derivation of the Burnett hydrodynamic equations from the Hilbert expansion. **89f:82035**
Gatignol, Renée The hydrodynamical description for a discrete velocity model of gas. **89j:82039**
Giroux, Gaston *see* **Ferland, R.**, **89d:82069**
Golse, François (*with* Perthame, Benoît; Sulem, C.) On a boundary layer problem for the nonlinear Boltzmann equation. **89h:82018**
Greenberg, J. M. Continuum limits of discrete gases. **89m:82033**
Grigor′ev, Yu. N. (*with* Meleshko, S. V.) Group analysis of the Boltzmann integro-differential equation. (Russian) **89e:82007**
Grzybowski, H. Tomasz Quadratic kinetic equations are linear in the tensor product space. **89i:82036**
— Nonequilibrium diffusion as a Markov process. **89k:82049**
Gustafsson, Tommy Global L^p-properties for the spatially homogeneous Boltzmann equation. **89h:82019**
Holloway, James Paul (*with* Dorning, J. J.) The dynamics of coupled nonlinear model Boltzmann equations. **89d:82070**
Iacono, R. *see* **Succi, S.**, **89c:82036**
Ianiro, N. (*with* Triolo, L.) Stationary Boltzmann equation for a degenerate gas in a slab: boundary value problem and hydrodynamics. **89h:82020**
Illner, Reinhard (*with* Pulvirenti, Mario) A derivation of the BBGKY-hierarchy for hard sphere particle systems. **89b:82051**
— Derivation and validity of the Boltzmann equation: some remarks on reversibility concepts, the H-functional and coarse-graining. **89i:82037**
— *see also* **Cercignani, Carlo; et al.**, **89c:82031**; **89d:82068** *and* **89i:82033**
Inozemtseva, N. G. (*with* Sadovnikov, B. I.) The evolution of the Bogolyubov functional hypothesis and nonlocality of transport processes in hard-sphere hydrodynamics. **89c:82033**
— (*with* Sadovnikov, B. I.) A spatially inhomogeneous solution of the Kac model. (Russian) **89m:82034**
Jasiukiewicz, Cz. (*with* Paszkiewicz, T.) The explicit time-dependence of moments of the distribution function for the Lorentz gas with planar symmetry in **k**-space. **89g:82042**
Kamgar-Parsi, B. *see* **de Schepper, I. M.; et al.**, **89m:82039**
Kasperkovitz, P. *see* **Foidl, Ch.; et al.**, **89b:82049**
Kawashima, Shuichi The Boltzmann equation and thirteen moments. **89c:82034**
— *see also* **Cabannes, Henri**, **89m:82030**
Kolyshkin, I. N. (*with* Ènder, A. Ya.; Ènder, I. A.) Numerical solution of isotropic relaxation problems by the Maxwellian expansion method. (Russian) **89m:82035**
Kondyurin, Yu. N. A method for direct statistical modeling of equations in hydrodynamics. (Russian) **89j:82040**
Kügerl, G. (*with* Schürrer, F.) P^{KLM} expansion of the scattering kernel of the nonlinear Boltzmann equation and its convergence rate. **89m:82036**
Lachowicz, M. On the initial layer and the existence theorem for the nonlinear Boltzmann equation. **89d:82071**
— *see also* **Bellomo, N.**, **89b:82047** *and* **89h:82016**
Lebedev, V. A. *see* **Bogomolov, S. V.**, **89f:82031**
Lions, Pierre-Louis *see* **DiPerna, Ronald**, **89b:82048**
Lukshin, An. V. (*with* Smirnov, S. N.) A stochastic method for solving the Boltzmann equation. (Russian) **89i:82038**
Majorana, Armando (*with* Branchina, Vincenzo) On the transport coefficients for a relativistic gas of hard spheres. **89i:82039**
— Finite moment equations for a relativistic simple gas. **89f:82036**
Martin, R. F., Jr. *see* **Friedman, Barry Alan**, **89b:82050**
Meleshko, S. V. *see* **Grigor′ev, Yu. N.**, **89e:82007**
Miklavčič, Milan On limit states of a linearized Boltzmann equation. **89g:82039**
Mishchenko, A. V. (*with* Petrina, D. Ya.) Linearization and exact solutions of a class of Boltzmann equations. **89i:82040**
— *see also* **Petrina, D. Ya.**, **89j:82041**
Monaco, R. The physical-mathematical modelling of the state of a two-phase system. **89k:82050**
Nekrutkin, V. V. (*with* Tur, N. I.) Modeling of a distribution that is the solution of the nonlinear Boltzmann equation. (Russian. English summary) **89g:82040**
Nishiyama, Hideko *see* **Shizuta, Yasushi**, **89a:82020**
Nonnenmacher, T. F. *see* **Rupp, D.; et al.**, **89h:82023**
Orlovskiĭ, D. G. *see* **Prilepko, A. I.**, **89g:82043**
Ozrin, V. D. On the kinetic theory of the velocity correlation functions for the Lorentz gas. (Russian) (*see* **89g:82003**)
— Time asymptotics of the Burnett correlation function in the Lorentz model. **89k:82051**
Pal′tsev, L. A. Vibrational and rotational relaxations in a moderately dense gas. II. (Not in MR)
Paszkiewicz, T. The continued fraction representation of the evolution matrix for the Lorentz gas with planar symmetry in **k**-space. **89g:82041**
— *see also* **Jasiukiewicz, Cz.**, **89g:82042**
Percus, J. K. *see* **Bernstein, M.**, **89d:82065**
Perthame, Benoît *see* **Golse, François; et al.**, **89h:82018**
Petrina, D. Ya. (*with* Mishchenko, A. V.) Exact solutions of a class of Boltzmann equations. **89j:82041**
— *see also* **Mishchenko, A. V.**, **89i:82040**
Pettersson, Rolf On solutions and higher moments for the linear Boltzmann equation with infinite-range forces. **89k:82052**
Piasecki, J. Local H-theorem for the revised Enskog equation. **89c:82035**
Płatkowski, T. Mixed problem for the Enskog equation in a half-space. **89f:82037**
Polewczak, Jacek Classical solution of the nonlinear Boltzmann equation in all $\mathbf{R}^3$: asymptotic behavior of solutions. **89h:82021**
Posch, Maximilian *see* **Eder, O. J.**, **89m:82032**
Prilepko, A. I. (*with* Orlovskiĭ, D. G.) Some inverse problems of kinetic gas theory for states that are close to equilibrium states. **89g:82043**
Protopopescu, V. Global existence for a model Boltzmann equation. **89d:82072**
Provodenko, O. P. Kinetic equations for particles in a multiphase medium, and transport equations. (Russian) (*see* **89g:00008**)
Pulvirenti, Mario Global validity of the Boltzmann equation for a three-dimensional rare gas in vacuum. **89b:82052**
— *see also* **Illner, Reinhard**, **89b:82051** *and* **Cercignani, Carlo; et al.**, **89i:82033**
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Rionero, S. Global solution to a nonlinear integral evolution problem in particle transport theory. **89h:82022**

Rivet, Jean-Pierre *see* **Frisch, Uriel, 89k:82048**

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Roĭtvarf, A. A. A two-valued velocity field with a root singularity. (Russian) **89m:82037**

Ruijgrok, Th. W. (*with* Cohen, E. G. D.) Deterministic lattice gas models. **89k:82053**

Rupp, D. (*with* Dukek, G.; Nonnenmacher, T. F.) Particle transport in a host medium with an external source: exact solutions for a nonlinear homogeneous Boltzmann equation. (German summary) **89h:82023**

Sadovnikov, B. I. *see* **Inozemtseva, N. G., 89c:82033** *and* **89m:82034**

Sakabekov, A. On the existence of a solution of a stationary system of Boltzmann moment equations in the first approximation. (Russian. Kazakh summary) **89m:82038**

Sankovich, D. P. The method of formal diagonalization for the generalized Liouville equation. (Russian) (*see* **89g:82003**)

de Schepper, I. M. (*with* Cohen, E. G. D.; Kamgar-Parsi, B.) On the calculation of equilibrium time correlation functions in hard-sphere fluids. **89m:82039**

Schürrer, F. *see* **Kügerl, G., 89m:82036**

Shinbrot, Marvin *see* **Cercignani, Carlo; et al., 89c:82031**; **89d:82068** *and* **89i:82033**

Shizuta, Yasushi (*with* Nishiyama, Hideko) Initial value problem for Kac's model of the Boltzmann equation. **89a:82020**

Shukhov, A. G. *see* **Sukhov, Yu. M., 89j:82043**

Smirnov, S. N. *see* **Lukshin, An. V., 89i:82038**

Song, Jin Bao The equations of gross determinism corresponding to eighteen gross moments and the method of stretched fields. I, II. (Chinese. English summary) (Not in MR)

Spiga, G. Moment equations and Laguerre series solution in nonlinear extended kinetic theory. **89m:82040**

— *see also* **Boffi, V. C., 89i:82031** *and* **Dukek, G., 89j:82038**

Succi, S. (*with* Iacono, R.) Self-similar evolution of one-dimensional Fokker-Planck systems. **89c:82036**

Sukhinin, G. I. Generalized relaxation equations for vibrational and rotational kinetics of molecules in gas flows. **89f:82038**

Sukhov, Yu. M. (*with* Shukhov, A. G.) Hydrodynamic approximation for groups of Bogolyubov transforms in quantum statistical mechanics. **89j:82043**

Sulem, C. *see* **Golse, François; et al. 89h:82018**

Teitler, S. *see* **Rajagopal, A. K.**, (**89f:62002**)

Toscani, Giuseppe H-theorem and asymptotic trend of the solution for a rarefied gas in the vacuum. **89b:82053**

Triolo, L. *see* **Ianiro, N., 89h:82020**

Tur, N. I. *see* **Nekrutkin, V. V., 89g:82040**

Uchiyama, Kôhei On derivation of the Boltzmann equation from a deterministic motion of many particles. **89g:82044**

— On the Boltzmann-Grad limit for the Broadwell model of the Boltzmann equation. **89k:82054**

Volkov, Yu. A. The Monte Carlo method for the Landau equation. (Russian) **89g:82045**

Voronina, V. A. A method for constructing the solution of a spatially homogeneous Boltzmann equation for a gas mixture. (Russian) **89g:82046**

Wenzel, Lothar The linearized Boltzmann equation with reflecting boundary conditions. I. The space of continuous functions. **89h:82024**

— The linear Boltzmann equation with time dependent operators in a space of distributions. **89j:82044**

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Items with secondary classifications in 82A40

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82A41 Random walks, random surfaces, etc. (use only for secondary classification)

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Blumen, A. *see* **Köhler, Günther Horst; et al., 89i:82041**
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Knapp, E. W. *see* **Köhler, Günther Horst; et al., 89i:82041**
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Items with secondary classifications in 82A41

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Coniglio, Antonio *see* **Poole, Peter H.; et al., 89j:82054**
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David, François Louis *see* **Duplantier, Bertrand, 89m:82005**
Debierre, Jean-Marc *see* **Turban, Loïc, 89b:82099**
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Dishon, Menachem *see* **Bendler, John T.; et al., 89m:82051**
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Harris, A. Brooks *see* **Aharony, Amnon, 89m:82050**
Hattori, Kumiko (*with* Hattori, Tetsuya; Watanabe, Hiroshi^2) Block spin approach to the singularity properties of the continued fractions. **89d:82116**
Hattori, Tetsuya *see* **Hattori, Kumiko; et al., 89d:82116**
Havlin, Shlomo *see* **Fletcher, John E.; et al., 89d:82050** *and* **Schwartz, Moshe, 89f:82042**
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den Hollander, W. Th. F. *see* **Weiss, G. H., 89j:60099**
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Hughes, Barry D. *see* **Chan, Derek Y. C., 89i:82107**
Jan, Naeem *see* **Poole, Peter H.; et al., 89j:82054**
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Jónsson, Thórdur *see* **Ambjørn, Jan; et al., 89f:82040**
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Kleinert, H. *see* **Janke, W., 89c:82069**

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Kremer, Kurt *see* **Batoulis, Jannis, 89c:82048**
Krzywicki, A. *see* **Kostov, Ivan, 89a:81104**
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Lukács, P. *see* **Krámli, A.; et al., 89k:60094**
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Méritet, Alain *see* **Gaveau, Bernard, 89m:82055**
Midtdal, J. *see* **Fjeldsø, N.; et al., 89g:82006**
Migdal, A. A. Random surfaces and turbulence. **89i:76063**
— *see also* **Zmushko, V. V., 89j:81151**
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Nemirovsky, Adolfo M. (*with* Coutinho-Filho, Maurício D.) Packing flexible polymer chains on a lattice. **89m:82053**
Nielsen, Holger Bech *see* **Bennett, D. L.; et al., (89f:81005)**
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Obata, Tsunehiro *see* **Hara, Hiroaki; et al., 89a:82059**
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Pasche, J. *see* **de Forcrand, Philippe; et al., 89i:82024**
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Radons, G. *see* **Geisel, T.; et al., 89d:82159**
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Ravndal, F. *see* **Fjeldsø, N.; et al., 89g:82006**
Révész, P. *see* **Csörgő, Miklós; et al., 89c:60078**
Ruiz, Jean *see* **Dunlop, François, 89i:82078**
Sahimi, Muhammad Hydrodynamic dispersion near the percolation threshold: scaling and probability densities. **89a:82022**
Saleur, H. *see* **Duplantier, Bertrand, 89g:82049**
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Shapir, Y. *see* **Lim, H. A.; et al., 89a:82047** *and* **Chang, I. Shou, 89j:82051**
Sibani, Paolo *see* **Hoffmann, Karl-Heinz^2, 89j:82062**
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Szász, Domokos *see* **Krámli, A.; et al., 89k:60094**
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— Self-avoiding walks on Sierpiński carpets. **89j:82021**
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Turban, Loïc (*with* Debierre, Jean-Marc) Crossover in the one-dimensional self-directed walk. **89b:82099**
Van den Broeck, C. *see* **Maes, D., 89i:60155**
Watanabe, Hiroshi^2 *see* **Hattori, Kumiko; et al., 89d:82116**
Weiss, G. H. (*with* den Hollander, W. Th. F.) A note on configurational properties of constrained random walks. **89j:60099**
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Whittington, S. G. *see* **Sumners, De Witt L., 89i:82060**
Wiegel, F. W. *see* **Khandekar, D. C., 89j:82052**
Wiesenfeld, Kurt *see* **Bak, Per; et al., (89j:00034)**
Zacherl, A. *see* **Geisel, T.; et al., 89d:82159**
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Żołądek, Henryk One-dimensional random walk with self-interaction. **89b:60166**

82A42 Random media

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Axel, Françoise (*with* Peyrière, Jacques) États étendus dans une chaîne à désordre contrôlé. (English summary) [Extended states in a chain with controlled disorder] **89m:82041**
Barabanenkov, Yu. N. A stationary regime for the quantum dynamics of particles in randomly variable potential. (Russian. English summary) **89h:82025**
Bell, S. C. (*with* Stinchcombe, R. B.) Hierarchical clustering in the spectra of incommensurate systems. **89m:82042**
Brézin, É. *see* **Schulz, U.; et al., 89i:82045**
Bunde, Armin (*with* Havlin, Shlomo; Stanley, H. E.) Anomalous transport in random linear structures. (*see* **89j:00034**)
Derrida, B. *see* **Zanon, N., 89j:82047**
Durhuus, Bergfinnur *see* **Ambjørn, Jan; et al., 89f:82040**
Dürr, Detlef (*with* Naroditsky, Vladimir; Zanghì, Nino) On the hydrodynamic motion of a test particle in a random harmonic chain. **89b:82055**
Faris, William G. Localization estimates for a random discrete wave equation at high frequency. **89b:82056**
Gilabert, A. *see* **Sornette, D.; et al., (89j:00034)**
Glandt, Eduardo D. *see* **Madden, William G., 89i:82043**
Goldhirsch, I. *see* **Noskowicz, S. H., 89i:82044**
Guyon, Etienne The physics of random matter. (*see* **89j:82001**)
Hara, Hiroaki (*with* Okayama, Seiji) Fractal dimension and scaling behavior of cracks in a random medium: "frequency-rank" distribution described by generalized random walks. **89f:82041**
Havlin, Shlomo *see* **Schwartz, Moshe, 89f:82042** *and* **Bunde, Armin; et al., (89j:00034)**
Jónsson, Thórdur *see* **Ambjørn, Jan; et al., 89f:82040**
Livi, R. (*with* Maritan, A.; Ruffo, Stefano) The spectrum of a one-dimensional hierarchical model. **89i:82042**
Luck, J. M. (*with* Nieuwenhuizen, Th. M.) Lifshitz tails and long-time decay in random systems with arbitrary disorder. **89j:82045**
Maa, Hsiao-fei *see* **Wang, Zhen Song, 89h:82026**
Madden, William G. (*with* Glandt, Eduardo D.) Distribution functions for fluids in random media. **89i:82043**
Maritan, A. Hierarchical random networks. **89k:82055**
— *see also* **Livi, R.; et al., 89i:82042**
Markov, Konstantin Z. (*with* Zvjatkov, K. D.) On the bounds for the effective properties of random suspensions of spheres. **89d:82076**
Mezincescu, G. A. Lifschitz singularities for periodic operators plus random potentials. **89k:82056**
Molchanov, S. A. *see* **Zel'dovich, Ya. B.; et al., 89b:82059** *and* **89c:82038**
Motyl, William G. Dynamics on random ultrametric spaces. **89d:82077**
Naroditsky, Vladimir *see* **Dürr, Detlef; et al., 89b:82055**
Nieuwenhuizen, Th. M. *see* **Luck, J. M., 89j:82045**
Noskowicz, S. H. (*with* Goldhirsch, I.) Average versus typical mean first-passage time in a random random walk. **89i:82044**
Odagaki, T. Termite and ant diffusions in the d-dimensional lattice trapping model. **89b:82057**
Okayama, Seiji *see* **Hara, Hiroaki, 89f:82041**
Orland, H. *see* **Schulz, U.; et al., 89i:82045**
Panasenko, G. P. Averaging of processes in strongly inhomogeneous structures. **89d:82078**
Papanicolaou, George C. Waves in one-dimensional random media. **89k:82057**
Peyrière, Jacques *see* **Axel, Françoise, 89m:82041**
Politi, A. *see* **Schneider, Toni; et al., 89b:82058**
Polovin, R. V. *see* **Virchenko, Yu. P., 89j:82046**
Procaccia, Itamar (*with* Zeitak, Reuven) Shape of fractal growth patterns: exactly solvable models and stability considerations. **89d:82079**
Ruffo, Stefano *see* **Livi, R.; et al., 89i:82042**
Ruzmaĭkin, A. A. *see* **Zel'dovich, Ya. B.; et al., 89b:82059** *and* **89c:82038**
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Schulz, U. (*with* Villain, J.; Brézin, É.; Orland, H.) Thermal fluctuations in some random field models. **89i:82045**
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Shumkina, T. S. *see* **Sokolov, D. D., 89i:82046**
Sokolov, D. D. (*with* Shumkina, T. S.) The structure of the moments of a scalar field in a random medium. (Russian) **89i:82046**
— *see also* **Zel'dovich, Ya. B.; et al., 89b:82059** *and* **89c:82038**
Sörensen, M. P. *see* **Schneider, Toni; et al., 89b:82058**
Sornette, D. (*with* Gilabert, A.; Vanneste, C.) Rupture in random media. (*see* **89j:00034**)
Stanley, H. E. *see* **Bunde, Armin; et al., (89j:00034)**
Stinchcombe, R. B. *see* **Bell, S. C., 89m:82042**
Valentyuk, A. N. The Green functions of the radiative transfer equation in a three-dimensional inhomogeneous random scattering medium. (Russian. English summary) **89f:82043**
Vanneste, C. *see* **Sornette, D.; et al., (89j:00034)**
Villain, J. *see* **Schulz, U.; et al., 89i:82045**
Virchenko, Yu. P. (*with* Polovin, R. V.) Stochastic disruption of an increasing wave in a random-inhomogeneous medium. (Russian. English summary) **89j:82046**
Wang, Zhen Song (*with* Maa, Hsiao-fei) Analytical solutions in differential form for the $m-n$th moment equations of waves in inhomogeneous random media. **89h:82026**
Zanghì, Nino *see* **Dürr, Detlef; et al., 89b:82055**
Zanon, N. (*with* Derrida, B.) Weak disorder expansion of Liapunov exponents in a degenerate case. **89j:82047**
Zeitak, Reuven *see* **Procaccia, Itamar, 89d:82079**
Zel'dovich, Ya. B. (*with* Molchanov, S. A.; Ruzmaĭkin, A. A.; Sokolov, D. D.) Self-excitation of a nonlinear scalar field in a random medium. **89c:82038**
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Items with secondary classifications in 82A42

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Brenner, Howard *see* **Koch, Donald L.; et al., 89m:76063**
Campanino, Massimo *see* **Bovier, Anton; et al., 89c:82050**
Carmona, René Exercises for a book on random potentials. **89f:60066**
Ceccatto, H. A. *see* **Keirstead, W. P.; et al., 89m:82007**
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Chayes, J. T. (*with* Chayes, L.) Percolation and random media. **89c:82041**
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Chayes, L. *see* **Chayes, J. T.; et al., 89a:82026** *and* **89c:82041**
Chow, P. L. Travel-time problems for waves in random media. **89g:35122**
Cohen, Joel E. Threshold phenomena in random structures. **89g:92078**
Cox, Raymond G. *see* **Koch, Donald L.; et al., 89m:76063**
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— *see also* **Sompolinsky, H.; et al., 89f:92027**
Danchev, D. M. *see* **Brankov, I. G., 89i:82066**
(Danilov, Yu. A.) *see* **Horsthemke, Werner, 89d:82002**
Dell'Antonio, G. F. (*with* Nesi, V.) A general representation for the effective dielectric constant of a composite. **89k:78031**
Deutsch, Claude *see* **Vanderhaegen, D.**, (Not in MR)
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(Emel'yanov, V. I.) *see* **Horsthemke, Werner, 89d:82002**
Evertsz, C. *see* **Pietronero, L.; et al., 89d:82042**
Figotin, A. L. Ergodic properties and essential selfadjointness of random matrix operators. (Russian) **89g:47030**
Fisher, Daniel S. *see* **Chayes, J. T.; et al., 89a:82026**
Geronimo, J. S. (*with* Harrell, Evans M., II; Van Assche, Walter) On the asymptotic distribution of eigenvalues of banded matrices. **89j:15017**
Given, James A. (*with* Klein, William) Born-Green hierarchy for continuum percolation. **89m:82045a**
— (*with* Klein, William) Erratum: "Born-Green hierarchy for continuum percolation". **89m:82045b**
Goldstein, Sheldon *see* **Dürr, Detlef; et al., 89k:82009**
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Grenkova, L. N. (*with* Molchanov, S. A.) Lifshits asymptotics for one-dimensional random operators. **89m:60145**
Hansen, Alex *see* **Batrouni, G., 89i:82004**
Harrell, Evans M., II *see* **Geronimo, J. S.; et al., 89j:15017**
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Howland, James S. Random perturbation theory and quantum chaos. **89h:47069**
Huberman, B. A. *see* **Keirstead, W. P.; et al., 89m:82007**
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Klein, Abel *see* **Bovier, Anton; et al., 89c:82050**
Klein, William *see* **Given, James A., 89m:82045a** *and* **89m:82045b**
Koch, Donald L. (*with* Cox, Raymond G.; Brenner, Howard; Brady, John F.) The effect of order on dispersion in porous media. **89m:76063**
Kohler, Werner E. Reflection from a one-dimensional, totally refracting random multilayer. II. Internal field statistics. **89e:86003**
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Kotani, Shinichi One-dimensional random Schrödinger operators and Herglotz functions. **89h:60100**
— Problems of one-dimensional random Schrödinger operators. **89d:34096**
— (*with* Simon, Barry) Localization in general one-dimensional random systems. II. Continuum Schrödinger operators. **89d:81034**
— (*with* Krishna, M.) Almost periodicity of some random potentials. **89i:60133**
Krámli, A. (*with* Lukács, P.; Szász, Domokos) A non-Wiener random walk in a two-dimensional Bernoulli environment. **89k:60094**
Krishna, M. *see* **Kotani, Shinichi, 89i:60133**
Lebowitz, Joel L. *see* **Dürr, Detlef; et al., 89k:82009**
Lefever, René *see* **Horsthemke, Werner, 89d:82002**
Levermore, C. David (*with* Wong, Joe; Pomraning, G. C.) Renewal theory for transport processes in binary statistical mixtures. **89d:82151**
Lima, R. (*with* Ruffo, Stefano) Scaling laws for all Liapunov exponents: models and measurements. **89k:58187**
Lukács, P. *see* **Krámli, A.; et al., 89k:60094**
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Maradudin, A. A. Surface acoustic waves on rough surfaces. **89i:73023**
— *see also* **McGurn, A. R., 89j:73031**
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McGurn, A. R. (*with* Maradudin, A. A.) Localization effects in the scattering of acoustic waves from a random stress-free grating surface. **89j:73031**
(Mikhaĭlov, A. S.) *see* **Horsthemke, Werner, 89d:82002**
Mirollo, R. E. *see* **Strogatz, S. H., 89j:70040**
Molchanov, S. A. *see* **Golitsyna, A. G., 89f:60067** *and* **Grenkova, L. N., 89m:60145**
Muthukumar, M. *see* **Edwards, S. F., 89e:82009**
Nesi, V. *see* **Dell'Antonio, G. F., 89k:78031**
Ozawa, Shin Fluctuation of spectra in random media. **89f:35160**
Pastur, L. A. Spectral properties of metrically transitive operators and related problems. **89f:47073**
Paterson, Lincoln *see* **Chan, Derek Y. C.; et al., 89h:76036**
Perez, J. Fernando *see* **Bovier, Anton; et al., 89c:82050**
Pietronero, L. (*with* Evertsz, C.; Siebesma, A. P.) Fractal and multifractal structures in kinetic critical phenomena. **89d:82042**
Pomraning, G. C. Transport and diffusion in a statistical medium. **89b:82132**
— *see also* **Levermore, C. David; et al., 89d:82151**
Ruffo, Stefano *see* **Lima, R., 89k:58187**
Scoppola, E. *see* **Martinelli, Fabio, 89g:82002**
Semenov, D. V. Evolution of the correlation matrix of a magnetic field in a homogeneous and isotropic velocity field. (Russian) **89k:85008**
Shikula, E. N. *see* **Khoroshun, L. P., 89j:76082**
Siebesma, A. P. *see* **Pietronero, L.; et al., 89d:82042**
Simon, Barry *see* **Kotani, Shinichi, 89d:81034**
Sirakoff, Christina *see* **Chan, Derek Y. C.; et al., 89h:76036**
Sommers, H.-J. *see* **Sompolinsky, H.; et al., 89f:92027**
Sompolinsky, H. (*with* Crisanti, A.; Sommers, H.-J.) Chaos in random neural networks. **89f:92027**
— *see also* **Crisanti, A., 89a:82027**
Souillard, Bernard Waves and electrons in inhomogeneous media. (*see* **89j:82001**)
(Souletie, Jean) *see* **Chance and matter, 89j:82001**
Spencer, Thomas Crawford Random and quasiperiodic Schrödinger operators. **89h:35086**
— *see also* **Chayes, J. T.; et al., 89a:82026**
(Stora, R.) *see* **Chance and matter, 89j:82001**
Strogatz, S. H. (*with* Mirollo, R. E.) Phase-locking and critical phenomena in lattices of coupled nonlinear oscillators with random intrinsic frequencies. **89j:70040**
Szász, Domokos *see* **Krámli, A.; et al., 89k:60094**
Van Assche, Walter *see* **Geronimo, J. S.; et al., 89j:15017**
Vanderhaegen, D. (*with* Deutsch, Claude) Linear radiation transport in randomly distributed binary mixtures: a one-dimensional and exact treatment for the scattering case. (Not in MR)
(Vannimenus, J.) *see* **Chance and matter, 89j:82001**
Vicsek, Tamás Disordered patterns in deterministic growth. (*see* **89j:00034**)
Wong, Joe *see* **Levermore, C. David; et al., 89d:82151**
(Zubarev, D. N.) *see* **Horsthemke, Werner, 89d:82002**

Items listed otherwise than by author

Chance and matter ★ Le hasard et la matière. [Chance and matter] **89j:82001**
Hasard et la matière ★ Le hasard et la matière. [Chance and matter] **89j:82001**
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82A43 Percolation

Adler, Joan (*with* Aharony, Amnon) Diffusion percolation. I. Infinite time limit and bootstrap percolation. **89m:82043**
Aharony, Amnon (*with* Oxaal, U.; Murat, M.; Meir, Yigal; Boger, F.; Feder, Jens; Jøssang, T.) Growth and viscous fingers on percolating porous media. (*see* **89j:00034**)
— *see also* **Harris, A. Brooks; et al., 89c:82044**; **Furuberg, Liv; et al., 89i:82050**; **Meir, Yigal; et al., 89k:82058** *and* **Adler, Joan, 89m:82043**
Ahmed, Elsayed Mohamed Two-dimensional percolation and classical string theory. **89j:82048**
— (*with* Tawansi, A.) Conformal mapping and the random site problem. **89d:82080**
Aizenman, Michael General results in percolation theory. **89d:82081**
— (*with* Kesten, Harry; Newman, C. M.) Uniqueness of the infinite cluster and continuity of connectivity functions for short and long range percolation. **89b:82060**
Appel, Martin J. (*with* Wierman, John C.) On the absence of infinite *AB* percolation clusters in bipartite graphs. **89b:82061**
— *see also* **Wierman, John C., 89b:82062**
Baxter, Rodney James (*with* Guttmann, A. J.) Series expansion of the percolation probability for the directed square lattice. **89i:82047**
— *see also* **Owczarek, A. L., 89k:82059**
Beasley, J. D. *see* **Torquato, S.; et al., 89k:82061**
Bhatti, F. M. (*with* Essam, J. W.) Low density series expansions for backbone properties of percolation clusters. **89c:82039**
Blumenfeld, Raphael Probability densities of homogeneous functions: explicit approximation and applications to percolating networks. **89d:82082**
Boger, F. *see* **Aharony, Amnon; et al.**, (**89j:00034**)
Breton, Pierre *see* **Fourcade, Bertrand; et al., 89b:82064** *and* **Tremblay, André-Marie Séguin; et al., 89b:82067**
Bricmont, J. (*with* Lebowitz, Joel L.; Maes, Christian) Percolation in strongly correlated systems: the massless Gaussian field. **89c:82040**
Chayes, J. T. (*with* Chayes, L.) Percolation and random media. **89c:82041**
— (*with* Chayes, L.) On the upper critical dimension of Bernoulli percolation. **89c:82042**
Chayes, L. *see* **Chayes, J. T., 89c:82041** *and* **89c:82042**
Chiew, Y. C. *see* **Torquato, S.; et al., 89k:82061**
De'Bell, K. *see* **Essam, J. W.; et al., 89i:82049**
Deutscher, G. Applications of percolation. (*see* **89j:82001**)
Dhar, Deepak First passage percolation in many dimensions. **89d:82083**
Duplantier, Bertrand Hull percolation and standard percolation. **89i:82048**
Essam, J. W. (*with* Guttmann, A. J.; De'Bell, K.) On two-dimensional directed percolation. **89i:82049**
— *see also* **Bhatti, F. M., 89c:82039** *and* **de Magalhães, A. C. N., 89f:82044**
Evans, James William Correlated percolation: exact Bethe lattice analyses. **89b:82063**

Feder, Jens *see* **Furuberg, Liv; et al., 89i:82050** *and* **Aharony, Amnon; et al., (89j:00034)**

Fourcade, Bertrand (*with* Breton, Pierre; Tremblay, André-Marie Séguin) Multifractals and critical phenomena in percolating networks: fixed point, gap scaling, and universality. **89b:82064**

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Fraser, Simon J. Solvable random-decimation model of cluster scaling. **89d:82084**

Furuberg, Liv (*with* Feder, Jens; Aharony, Amnon; Jøssang, T.) Dynamics of invasion percolation. **89i:82050**

Gandolfi, A. (*with* Keane, Michael; Russo, L.) On the uniqueness of the infinite occupied cluster in dependent two-dimensional site percolation. **89m:82044**

Given, James A. (*with* Klein, William) Born-Green hierarchy for continuum percolation. **89m:82045a**

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Gouyet, J.-F. Some general relations between dressed self-avoiding walks and percolation perimeters on lattices. **89c:82043**

Guttmann, A. J. *see* **Baxter, Rodney James, 89i:82047** *and* **Essam, J. W.; et al., 89i:82049**

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Jøssang, T. *see* **Furuberg, Liv; et al., 89i:82050** *and* **Aharony, Amnon; et al., (89j:00034)**

Keane, Michael *see* **Gandolfi, A.; et al., 89m:82044**

Kesten, Harry *see* **Aizenman, Michael; et al., 89b:82060**

Klein, William *see* **Given, James A., 89m:82045a** *and* **89m:82045b**

Kratky, Karl W. Is the percolation transition of hard spheres a thermodynamic phase transition? **89i:82052**

Lebowitz, Joel L. *see* **Bricmont, J.; et al., 89c:82040**

Li, Bo Zang *see* **Zhang, Zhao Qing; et al., 89g:82048**

Łuczak, Tomasz (*with* Wierman, John C.) Critical probability bounds for two-dimensional site percolation models. **89i:82053**

Maes, Christian *see* **Bricmont, J.; et al., 89c:82040**

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— *see also* **Harris, A. Brooks; et al., 89c:82044** *and* **Aharony, Amnon; et al., (89j:00034)**

Murat, M. *see* **Aharony, Amnon; et al., (89j:00034)**

Nagatani, Takashi A regular model for cluster numbers and structure just below percolation threshold. **89c:82045**

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Schaub, B. *see* **Janssen, H. K.; et al., 89e:82005**

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82A45 Plasma

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Klimontovich, Yu. L. *see* **Zagorodniĭ, A. G.; et al., 89h:82029**

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Items with secondary classifications in 82A45

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Polyudov, A. N. *see* **Volkov, Yu. A., 89d:82011**

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Yan′kov, V. V. *see* **Chernousenko, V. M.; et al., 89g:76022**

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82A50 Liquids

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Frisch, Harry L. *see* **Elskens, Yves, 89d:82088**

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Lallemand, P. *see* **Frisch, Uriel; et al., 89h:82031**

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Naberukhin, Y. I. *see* **Medvedev, N. N.; et al., 89b:82072**
Percus, J. K. *see* **Lebowitz, Joel L.; et al., 89b:82069**
Pomeau, Y. *see* **Frisch, Uriel; et al., 89h:82031**
Rice, Stuart A. *see* **Bagchi, Biman, 89b:82068**
Rivet, Jean-Pierre *see* **Frisch, Uriel; et al., 89h:82031**
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Savkov, S. A. *see* **Yalamov, Yu. I.; et al., 89b:82074**
Schmitz, Rudolf P. *see* **Jones, Robert B., 89d:82089**
Scriven, L. E. *see* **Vanderlick, T. K.; et al., 89c:82047**
Sukstans′kiĭ, O. L. *see* **Bar′yakhtar, V. G.; et al., 89d:82087**
Talbot, J. *see* **Lebowitz, Joel L.; et al., 89b:82069**
Tareeva, E. E. *see* **Ryzhov, V. N., 89d:82091** *and* **(89g:82003)**
Tartakovskaya, E. V. *see* **Bar′yakhtar, V. G.; et al., 89d:82087**
Torruella, A. J. *see* **Blum, Lesser, 89j:82049**
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Visscher, P. B. *see* **Logan, W. T., 89k:82064**
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Yushkanov, A. A. *see* **Yalamov, Yu. I.; et al., 89b:82074**
Ziff, Robert M. *see* **Vigil, R. Dennis; et al., 89f:82051**

Items with secondary classifications in 82A50

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Cohen, E. G. D. *see* **de Schepper, I. M.; et al., 89m:82039**
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Dunlop, François *see* **De Coninck, Joël, 89a:82005**
Feingold, Mario (*with* Kadanoff, Leo P.; Piro, Oreste) Passive scalars, three-dimensional volume-preserving maps, and chaos. **89h:58167**
Gelfand, Martin P. (*with* Lipowsky, Reinhard) Wetting on cylinders and spheres. **89b:82026**
Glandt, Eduardo D. *see* **Madden, William G., 89i:82043**
(Gogosov, V. V.) *see* **Zhelnorovich, V. A.,** (Not in MR)
Kadanoff, Leo P. *see* **Feingold, Mario; et al., 89h:58167**
Kamgar-Parsi, B. *see* **de Schepper, I. M.; et al., 89m:82039**
Knobler, Charles M. (*with* Scott, Robert L.) Multicritical points in fluid mixtures: experimental studies. (*see* **89g:82024**)
Lipowsky, Reinhard *see* **Gelfand, Martin P., 89b:82026**
Madden, William G. (*with* Glandt, Eduardo D.) Distribution functions for fluids in random media. **89i:82043**
Nozieres, Philippe Physique statistique. [Statistical physics] **89i:81156**
Percus, J. K. *see* **Bernstein, M., 89d:82065**
Piro, Oreste *see* **Feingold, Mario; et al., 89h:58167**
de Schepper, I. M. (*with* Cohen, E. G. D.; Kamgar-Parsi, B.) On the calculation of equilibrium time correlation functions in hard-sphere fluids. **89m:82039**
Scott, Robert L. *see* **Knobler, Charles M., (89g:82024)**
Sinha, Suresh Kumar Theory for correlation functions of fermion quantum fluids. **89f:81281**
Weiss, Richard A. Thermodynamic gauge theory of solids and quantum liquids with internal phase. **89d:82047**
Zhelnorovich, V. A. On mathematical models of magnetic fluids. (Not in MR)

82A51 Polymers

Aharony, Amnon (*with* Harris, A. Brooks) Flory approximant for self-avoiding walks on fractals. **89m:82050**
Aronovitz, J. A. (*with* Nelson, David R.) Universal features of polymer shapes. (French summary) **89a:82023**
Bak, Thor A. *see* **Lu, Bing Lin, 89b:82078**
Batoulis, Jannis (*with* Kremer, Kurt) Statistical properties of biased sampling methods for long polymer chains. **89c:82048**
Bawendi, M. G. (*with* Freed, Karl F.) A lattice model for self- and mutually avoiding semiflexible polymer chains. **89b:82075**
— (*with* Freed, Karl F.; Mohanty, Udayan) A lattice field theory for polymer systems with nearest-neighbor interaction energies. **89b:82076**
— (*with* Freed, Karl F.) Systematic corrections to Flory-Huggins theory: polymer-solvent-void systems and binary blend-void systems. **89b:82077**
Bendler, John T. (*with* Dishon, Menachem; Kesten, Harry; Weiss, G. H.) A first passage time problem for random walk occupancy. **89m:82051**
Binder, K. *see* **Ohno, Kaoru, 89j:82053**
Bouchaud, Jean-Philippe (*with* Georges, Antoine) Flory formula as an extended law of large numbers. **89k:82065**
Brereton, M. G. (*with* Butler, Clare) A topological problem in polymer physics: configurational and mechanical properties of a random walk enclosing a constant area. **89d:82092**
Butler, Clare *see* **Brereton, M. G., 89d:82092**
Chan, Hue Sun (*with* Dill, Ken A.) Intrachain loops in polymers: effects of excluded volume. **89k:82066**
Chang, I. Shou (*with* Shapir, Y.) Tricritical points of trails, their Euler digraphs and graphs: exact results on the Sierpiński gasket. **89j:82051**
Chen, Yang (*with* Guyer, R. A.) A polymer in a fractal pore space. (Not in MR)
— *see also* **Edwards, S. F., 89d:82093**
Coniglio, Antonio *see* **Poole, Peter H.; et al., 89j:82054**
Coutinho-Filho, Maurício D. *see* **Nemirovsky, Adolfo M., 89m:82053**
Dill, Ken A. *see* **Chan, Hue Sun, 89k:82066**
Dishon, Menachem *see* **Bendler, John T.; et al., 89m:82051**
Duplantier, Bertrand (*with* Saleur, H.) Exact critical properties of two-dimensional dense self-avoiding walks. **89g:82049**
— (*with* Kostov, Ivan) Conformal spectra of polymers on a random surface. **89k:82067**
Edwards, S. F. (*with* Olvera de la Cruz, Monica) Quantum field theory methods in polymer blends. (*see* **89b:81007**)
— (*with* Muthukumar, M.) The size of a polymer in random media. **89e:82009**
— (*with* Chen, Yang) The statistics of polymers on rough surfaces. **89d:82093**
Fedyanin, V. K. *see* **Osipov, V. A., (89g:82003)**
Freed, Karl F. *see* **Bawendi, M. G., 89b:82075; 89b:82076** *and* **89b:82077**
Gates, D. J. (*with* Westcott, M.) Kinetics of polymer crystallization. I. Discrete and continuum models. **89e:82010a**
— (*with* Westcott, M.) Kinetics of polymer crystallization. II. Growth régimes. **89e:82010b**
Georges, Antoine *see* **Bouchaud, Jean-Philippe, 89k:82065**
Guyer, R. A. *see* **Chen, Yang,** (Not in MR)
Hara, Takashi *see* **Tasaki, Hal, 89f:82054**
Harris, A. Brooks *see* **Aharony, Amnon, 89m:82050**
Hendriks, E. On a model of spatially homogeneous polymerization with a phase transition. **89m:82052**
Izuyama, Takeo *see* **Suzuki, Junji, 89d:82095**
Jan, Naeem *see* **Poole, Peter H.; et al., 89j:82054**
Kardar, Mehran (*with* Nelson, David R.) Statistical mechanics of self-avoiding tethered manifolds. **89f:82052**
Kesten, Harry *see* **Bendler, John T.; et al., 89m:82051**
Khandekar, D. C. (*with* Wiegel, F. W.) Distribution of the area enclosed by a plane random walk. **89j:82052**
Koleva, M. K. *see* **Nechaev, S. K.; et al., 89b:82079**
Kostov, Ivan *see* **Duplantier, Bertrand, 89k:82067**
Kremer, Kurt *see* **Batoulis, Jannis, 89c:82048**
Lawler, Gregory F. Loop-erased self-avoiding random walk in two and three dimensions. **89f:82053**
Lhuillier, Daniel A simple model for polymeric fractals in a good solvent and an improved version of the Flory approximation. (French summary) **89d:82094**
Lu, Bing Lin (*with* Bak, Thor A.) Kinetics of copolymerisation and gelation. **89b:82078**
Mohanty, Udayan *see* **Bawendi, M. G.; et al., 89b:82076**
Muthukumar, M. *see* **Edwards, S. F., 89e:82009**
Nechaev, S. K. (*with* Semenov, A. N.; Koleva, M. K.) Dynamics of a polymer chain in an array of obstacles. **89b:82079**
Nelson, David R. *see* **Aronovitz, J. A., 89a:82023** *and* **Kardar, Mehran, 89f:82052**
Nemirovsky, Adolfo M. (*with* Coutinho-Filho, Maurício D.) Packing flexible polymer chains on a lattice. **89m:82053**
Ohno, Kaoru (*with* Binder, K.) Scaling theory of star polymers and general polymer networks in bulk and semi-infinite good solvents. (French summary) **89j:82053**
Olvera de la Cruz, Monica *see* **Edwards, S. F., (89b:81007)**
Osipov, V. A. (*with* Fedyanin, V. K.) Solitons in a model of linear biatomic polymers. (Russian) (*see* **89g:82003**)
Poole, Peter H. (*with* Coniglio, Antonio; Jan, Naeem; Stanley, H. E.) Universality classes of the θ and θ' points. **89j:82054**
Privman, V. (*with* Švrakić, N. M.) Restoration of universality for the rod-to-coil transition scaling in the infinite-dimensionality limit: exact results for directed walks. **89c:82049**
Puchin, Marcel *see* **Tătaru, O. L.; et al., 89d:82096**
Saleur, H. *see* **Duplantier, Bertrand, 89g:82049**
Semenov, A. N. *see* **Nechaev, S. K.; et al., 89b:82079**
Shapir, Y. *see* **Chang, I. Shou, 89j:82051**
Spouge, John L. Exact solutions for a diffusion-reaction process in one dimension. **89b:82080**
— Errata: "Exact solutions for a diffusion-reaction process in one dimension" [Phys. Rev. Lett. **60** (1988), no. 10, 871–874]. **89b:82081**
Stanley, H. E. *see* **Poole, Peter H.; et al., 89j:82054**
Stoenescu, George *see* **Tătaru, O. L.; et al., 89d:82096**
Sumners, De Witt L. (*with* Whittington, S. G.) Knots in self-avoiding walks. **89i:82060**
Suzuki, Junji (*with* Izuyama, Takeo) Statistical mechanics of polymer melting transition. **89d:82095**
Švrakić, N. M. *see* **Privman, V., 89c:82049**
Tasaki, Hal (*with* Hara, Takashi) Critical behavior in a system of branched polymers. **89f:82054**
Tătaru, O. L. (*with* Puchin, Marcel; Stoenescu, George) Tree formulas and uniform estimations for lattice models. (Romanian. English summary) **89d:82096**
Warstat, Volker A variational principle for general polymer systems. (German and Russian summaries) **89i:82061**
Weiss, G. H. *see* **Bendler, John T.; et al., 89m:82051**
Westcott, M. *see* **Gates, D. J., 89e:82010a** *and* **89e:82010b**
Whittington, S. G. *see* **Sumners, De Witt L., 89i:82060**
Widom, B. Scaling of the surface tension of phase-separated polymer solutions. **89j:82055**
Wiegel, F. W. *see* **Khandekar, D. C., 89j:82052**
Ziegler, Klaus The $(n = 0)$-component Gross-Neveu model as a description of polymers in two dimensions. **89i:82062**

Items with secondary classifications in 82A51

Albeverio, S. Applications of nonstandard analysis in mathematical physics. (*see* **89m:03060**)

Beldjenna, Arezki *see* **Gaspari, George; et al., 89d:82073**

Bose, Indrani (*with* Ray, Purusattam; Mukhopadhyay, Subhashish) Effect of loops on spiral lattice animal statistics. **89i:82076**

Boué, F. (*with* Edwards, S. F.; Vilgis, T. A.) The entropy of a network of rod molecules. (French summary) **89i:82065**

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David, François Louis *see* **Duplantier, Bertrand, 89m:82005**

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— Tricritical disorder transition of polymers in a cloudy solvent: annealed randomness. **89i:82067**

Edwards, S. F. *see* **Boué, F.; et al., 89i:82065**

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Grosberg, A. Yu. *see* **Shakhnovich, E. I., (89a:81002)**

Hassold, Gregory N. *see* **Kantor, Yacov, 89b:82001**

Hu, Yuming *see* **Rudnick, Joseph, 89d:82075**

Hwa, Terence *see* **Medina, Ernesto; et al., 89m:82027**

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Kardar, Mehran *see* **Medina, Ernesto; et al., 89m:82027**

Lu, Bing Lin The exact solution of the coagulation equation with kernel $K_{ij} = A(i+j) + B$. **89d:82156**

Mann, J. Adin, Jr. *see* **Pittel, B.; et al., (89b:92038)**

Medina, Ernesto (*with* Hwa, Terence; Kardar, Mehran; Zhang, Yi Cheng) Burgers' equation with correlated noise: renormalization-group analysis and applications to directed polymers and interface growth. **89m:82027**

Mukhopadhyay, Subhashish *see* **Bose, Indrani; et al., 89i:82076**

Parisi, Giorgio Spin glasses and optimization problems without replicas. (*see* **89j:82001**)

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Pittel, B. (*with* Woyczyński, W. A.; Mann, J. Adin, Jr.) From Gaussian subcritical to Holtsmark ($\frac{3}{2}$-Levy stable) supercritical asymptotic behavior in "rings forbidden" Flory-Stockmayer model of polymerization. (*see* **89b:92038**)

Ray, Purusattam *see* **Bose, Indrani; et al., 89i:82076**

Rudnick, Joseph (*with* Hu, Yuming) Winding angle of a self-avoiding random walk. **89d:82075**

— *see also* **Gaspari, George; et al., 89d:82073**

Shakhnovich, E. I. (*with* Grosberg, A. Yu.) The dynamic renormalization group method in the statistical theory of bipolymers. (Russian. English summary) (*see* **89a:81002**)

Vilgis, T. A. *see* **Boué, F.; et al., 89i:82065**

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Woyczyński, W. A. *see* **Pittel, B.; et al., (89b:92038)**

Wunderlich, Francis J. *see* **Phares, Alain J., 89m:82067**

Zahradník, M. Analyticity of low-temperature phase diagrams of lattice spin models. **89f:82096**

Zhang, Yi Cheng *see* **Medina, Ernesto; et al., 89m:82027**

82A55 Solids

Al'tshuler, B. L. (*with* Prigodin, V. N.) Dynamical properties of a finite-one-dimensional conductor. **89e:82011**

Burak, Ya. Ĭ. (*with* Chekurin, V. F.) ★ Физико-механические поля в полупроводниках. (Russian) [Physical-mechanical fields in semiconductors] **89k:82068**

Chekurin, V. F. *see* **Burak, Ya. Ĭ., 89k:82068**

Faktorovich, I. Yu. Geometry-induced long-range orientational order in a solid. **89m:82054**

Jhung, Kwang Hwa Chung *see* **Jhung, Kyu Soo, 89f:82055**

Jhung, Kyu Soo (*with* Jhung, Kwang Hwa Chung) Statistical mechanics of the single occupancy system. **89f:82055**

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— Multicomponent composites, electrical networks and new types of continued fraction. II. **89b:82085**

Nijboer, B. R. A. (*with* Ruijgrok, Th. W.) On the energy per particle in three- and two-dimensional Wigner lattices. **89j:82056**

Prigodin, V. N. *see* **Al'tshuler, B. L., 89e:82011**

Ruijgrok, Th. W. *see* **Nijboer, B. R. A., 89j:82056**

dos Santos, Dina Maria L. F. *see* **Kerner, Richard, 89b:82082**

Stell, George *see* **Zhou, Yaoqi, 89h:82032**

Val'kov, V. V. Unitary transformations of the group U(N) and diagonalization of multilevel Hamiltonians. **89i:82063**

Zhou, Yaoqi (*with* Stell, George) The hard-sphere fluid: new exact results with applications. **89h:82032**

Zvarova, O. I. Properties of collision integrals in the Boltzmann equation of the theory of semiconductors. (Russian) **89h:82033**

Items with secondary classifications in 82A55

Alexander, S. A. *see* **Klein, D. J., (89b:92038)**

Burdett, Jeremy K. Topology and the structures of molecules and solids. **89d:92092**

Cornier, Marianne *see* **Gratias, Denis; et al., 89j:81244**

Gratias, Denis (*with* Cornier, Marianne; Portier, Richard) Symmetries and beam reduction in the matrix formulation of the dynamical theory of fast electrons. **89j:81244**

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Hubbard, J. B. (*with* McQuarrie, D. A.) Mobility fluctuations and electrophoretic light scattering from macromolecular solutions. **89i:92076**

Janssen, Ted W. J. M. *see* **Slot, J. J. M., 89i:82099**

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Kratky, Karl W. Is the percolation transition of hard spheres a thermodynamic phase transition? **89i:82052**

McQuarrie, D. A. *see* **Hubbard, J. B., 89i:92076**

Niezgódka, Marek (*with* Zheng, Song Mu; Sprekels, Jürgen) Global solutions to a model of structural phase transitions in shape memory alloys. **89b:35149**

Pinto, Marc A. Morphology of micromagnetics. **89m:58155**

Portier, Richard *see* **Gratias, Denis; et al., 89j:81244**

Quispel, G. R. W. The anisotropic Heisenberg spin chain and the derivative nonlinear Schrödinger equation. **89b:82119**

Slot, J. J. M. (*with* Janssen, Ted W. J. M.) Dynamics of kinks in modulated crystals. **89i:82099**

Sprekels, Jürgen *see* **Niezgódka, Marek; et al., 89b:35149**

Tanemura, Masaharu On the stereology of the radial distribution function of hard-sphere systems. (*see* **89g:82013**)

(Umehara, H.) *see* **Kitada, Akihiko, 89g:82088**

Zheng, Song Mu *see* **Niezgódka, Marek; et al., 89b:35149**

82A57 Disordered materials, including liquid crystals and spin glasses

Affleck, Ian *see* **Marston, J. Brad, 89a:82029**

Alstrøm, Preben (*with* Trunfio, Paul; Stanley, H. E.) Self-organized criticality: the origin of fractal growth. (*see* **89j:00034**)

Al'tshuler, B. L. (*with* Kravtsov, V. E.; Lerner, I. V.) Statistics of mesoscopic fluctuations and scaling theory. (*see* **89f:82003**)

Amit, Daniel J. *see* **Treves, A., 89i:82074**

Aoyama, Hideaki *see* **Odagaki, T., 89d:82104**

Argoul, F. (*with* Arneodo, A.; Elezgaray, J.; Grasseau, G.; Murenzi, R.) Wavelet transform of fractal aggregates. **89k:82069**

Arneodo, A. *see* **Argoul, F.; et al., 89k:82069**

Aubry, Serge *see* **Axel, Françoise, 89a:82024**

Axel, Françoise (*with* Aubry, Serge) Polarisation and transition by breaking of analyticity in a one-dimensional model for incommensurate structures in an electric field. **89a:82024**

Balakrishnan, Venkataraman Topological defects in condensed matter. **89i:82064**

Baldi, Pierre (*with* Venkatesh, Santosh S.) Number of stable points for spin-glasses and neural networks of higher orders. **89a:82025**

Bennett, D. L. (*with* Brene, N.; Nielsen, Holger Bech) Random dynamics. (*see* **89f:81005**)

Billard, Luc *see* **Lançon, F., 89m:82057**

Boué, F. (*with* Edwards, S. F.; Vilgis, T. A.) The entropy of a network of rod molecules. (French summary) **89i:82065**

Bovier, Anton (*with* Campanino, Massimo; Klein, Abel; Perez, J. Fernando) Smoothness of the density of states in the Anderson model at high disorder. **89c:82050**

Brankov, I. G. (*with* Danchev, D. M.) On the limit Gibbs states of the spherical and mean spherical models. **89i:82066**

Bray, A. J. (*with* Rodgers, G. J.) Diffusion in a sparsely connected space: a model for glassy relaxation. **89j:82057**

Brene, N. *see* **Bennett, D. L.; et al., (89f:81005)**

Bunde, Armin Anomalous transport in disordered structures: effect of additional disorder. (*see* **89j:00034**)

Bursill, L. A. (*with* Peng, Ju Lin; Fan, Xu Dong) Spiral lattice concepts. **89h:82034**

Cabasino, S. (*with* Marinari, E.; Paolucci, P.; Parisi, Giorgio) Eigenstates and limit cycles in the SK model. **89k:82070**

Campanino, Massimo *see* **Bovier, Anton; et al., 89c:82050**

Chayes, J. T. (*with* Chayes, L.; Fisher, Daniel S.; Spencer, Thomas Crawford) Finite-size scaling and correlation lengths for disordered systems. **89a:82026**

— *see also* **Singh, Rajiv R. P., 89e:82012**

Chayes, L. *see* **Chayes, J. T.; et al., 89a:82026** *and* **Singh, Rajiv R. P., 89e:82012**

Chester, G. V. *see* **Leung, P. W.; et al., 89j:82064**

Crisanti, A. (*with* Sompolinsky, H.) Dynamics of spin systems with randomly asymmetric bonds: Langevin dynamics and a spherical model. **89a:82027**

Danchev, D. M. *see* **Brankov, I. G., 89i:82066**

De Dominicis, C. (*with* Mottishaw, P.) Replica symmetry breaking in weak connectivity systems. **89c:82051**

— *see also* **Wong, K. Y. M.; et al., 89c:82053**

Derrida, B. Phase transitions in random networks of automata. (*see* **89j:82001**)

— (*with* Flyvbjerg, H.) Statistical properties of randomly broken objects and of multivalley structures in disordered systems. **89c:82052**

— *see also* **Neumann, Avidan U.; et al., 89i:82072** *and* **Gardner, E., 89j:82060**

Deutsch, J. M. (*with* Paladin, G.) Product of random matrices in a microcanonical ensemble. **89j:82058**

Dewar, Roderick C. (*with* Mottishaw, P.) Equilibrium states of the spin glass on a Bethe lattice. **89j:82059**

— *see also* **Wong, K. Y. M.; et al., 89c:82053**

Dimino, G. M. *see* **Kaufman, J. H.; et al., 89k:82071**

Duplantier, Bertrand Tricritical disorder transition of polymers in a cloudy solvent: annealed randomness. **89i:82067**

Edwards, S. F. *see* **Boué, F.; et al., 89i:82065**
Efetov, K. B. Anderson transition on a Bethe lattice (the symplectic and orthogonal ensembles). **89d:82097**
Elezgaray, J. *see* **Argoul, F.; et al., 89k:82069**
van Enter, Aernout C. D. Upper bounds on correlation decay for one-dimensional long-range spin-glass models. **89b:82086**
Erzan, Ayşe (*with* Grossmann, S.; Hernández-Machado, Aurora) Diffusion on random hierarchical structures. **89b:82087**
— *see also* **Pietronero, L.; et al., 89i:82073**
Evertsz, C. *see* **Pietronero, L.; et al., 89i:82073**
Fan, Xu Dong *see* **Bursill, L. A.; et al., 89h:82034**
Fedorov, Ya. V. Order-parameter function in a spin glass on a Bethe lattice. **89f:82056**
Feĭgel′man, M. V. *see* **Vinokur, V. M.; et al., 89k:82076**
Firsov, Yu. A. (*with* Nakhmedov, E. P.; Prigodin, V. N.) The dynamical aspects of the localization process for an electron in disordered systems. (*see* **89f:82003**)
Fisher, Daniel S. *see* **Chayes, J. T.; et al., 89a:82026** *and* **Singh, Rajiv R. P., 89e:82012**
Fisher, Michael Ellis *see* **Singh, Rajiv R. P., 89e:82012**
Flyvbjerg, H. *see* **Derrida, B., 89c:82052**
Fontanari, J. F. *see* **Theumann, W. K., 89f:82063**
Forgács, G. (*with* Luck, J. M.; Nieuwenhuizen, Th. M.; Orland, H.) Exact critical behavior of two-dimensional wetting problems with quenched disorder. **89i:82068**
Freund, H. (*with* Grassberger, P.) Multispin coding for spin glasses. **89i:82069**
Gardner, E. (*with* Derrida, B.) Optimal storage properties of neural network models. **89j:82060**
Gaveau, Bernard (*with* Méritet, Alain) An anomalous diffusion in a long-range disordered lattice. **89m:82055**
Gefen, Yuval (*with* Kléman, M.; Pavlovitch, A.; Peyrière, Jacques) Inflationary character of Penrose tilings. (French summary) **89d:82098**
Godrèche, C. (*with* Luck, J. M.; Vallet, F.) Quasiperiodicity and types of order: a study in one dimension. **89c:82054**
Golden, Kenneth M. (*with* Goldstein, Sheldon) Arbitrarily slow decay of correlations in quasiperiodic solutions. **89m:82056**
Goldschmidt, Yadin Y. Mean-field theory of the Potts spin-glass with finite connectivity. **89i:82070**
Goldstein, Sheldon *see* **Golden, Kenneth M., 89m:82056**
Grassberger, P. *see* **Freund, H., 89i:82069**
Grasseau, G. *see* **Argoul, F.; et al., 89k:82069**
Griffiths, Robert B. *see* **Tang, Lei-Han, 89k:82075**
Grossmann, S. *see* **Erzan, Ayşe; et al., 89b:82087**
Gryaznov, V. G. *see* **Solov′ev, V. A., 89m:82059**
Guyon, Etienne (*with* Roux, S.; Hansen, Alex) Nonlocal and nonlinear problems in the physics of disordered media. (*see* **89j:82002**)
Hansel, D. (*with* Luciani, J.-F.) A characteristic of the Lyapunov spectrum for the multichannel Anderson localisation in the thermodynamical limit. **89c:82055**
Hansen, Alex *see* **Guyon, Etienne; et al.,** (**89j:82002**)
Havlin, Shlomo Anomalous diffusion and fractons in disordered structures. (*see* **89j:00034**)
Henley, Christopher L. Random tilings with quasicrystal order: transfer-matrix approach. **89j:82061**
— *see also* **Leung, P. W.; et al., 89j:82064**
Hernández-Machado, Aurora *see* **Erzan, Ayşe; et al., 89b:82087**
Hilhorst, H. Some recent developments and problems in the theory of spin glasses. (*see* **89e:60005**)
Hoffmann, Karl-Heinz^2 (*with* Sibani, Paolo) Diffusion in hierarchies. **89j:82062**
Holm, Darryl D. (*with* Kupershmidt, B. A.) The analogy between spin glasses and Yang-Mills fluids. **89g:82050**
Horn, David (*with* Weyers, J.) Hypercubic structures in orthogonal Hopfield models. **89c:82056**
Inawashiro, Sakari *see* **Katsura, Shigetoshi; et al., 89f:82059**
Ioffe, L. B. *see* **Vinokur, V. M.; et al., 89k:82076**
Ishibashi, Yoshihiro *see* **Nagaya, Tomoyuki; et al., 89a:82030**
Kanter, Ido Inhomogeneous magnetization in dilute asymmetric and symmetric systems. **89f:82057**
Kardar, Mehran Replica Bethe ansatz studies of two-dimensional interfaces with quenched random impurities. **89f:82058**
Kasner, M. (*with* Weller, Wolfgang) Localization in N coupled disordered chains—recursion method. (*see* **89f:82003**)
Katsura, Shigetoshi (*with* Inawashiro, Sakari; Morita, Tohru) The graph partitioning and the spin glass—comments on papers by Sherrington and his group. **89f:82059**
— Errata: "Theory of spin glass by the method of the distribution function of an effective field" [Progr. Theoret. Phys. Suppl. No. 87 (1986), 139–154; MR 88d:82090]. **89c:82057**
— *see also* **Sasaki, Mitsuhiro, 89m:82058**
Kaufman, J. H. (*with* Melroy, O. R.; Dimino, G. M.) Information-theoretic study of pattern formation: rate of entropy production of random fractals. **89k:82071**
Kerner, Richard Croissance des structures cristallines et amorphes. (English summary) [Growth of crystalline and amorphous structures] **89k:82072**
Kertész, J. Morphological transitions in pattern growth phenomena. (*see* **89j:00034**)
Klein, Abel *see* **Bovier, Anton; et al., 89c:82050**
Kléman, M. *see* **Gefen, Yuval; et al., 89d:82098** *and* **Lequeux, F., 89d:82100**
Klonowski, Włodzimierz Probabilistic-topological theory of systems with discrete interactions. I. System representation by a hypergraph. (French summary) **89k:82073**
— Probabilistic-topological theory of systems with discrete interactions. II. Calculation of the hypergraph probabilistic representation; the difference a posteriori algorithm. (French summary) **89k:82074**
Knapp, E. W. Relaxation in self-similar hierarchical spaces. **89d:82099**
Kostadinov, I. Z. Disorder and hierarchical organization. **89j:82063**
Kravtsov, V. E. *see* **Al′tshuler, B. L.; et al.,** (**89f:82003**)
Kupershmidt, B. A. *see* **Holm, Darryl D., 89g:82050**
Kurik, M. V. (*with* Lavrentovich, O. D.) Defects in liquid crystals: homotopy theory and experimental studies. **89i:82071**
Lakhtakia, Akhlesh *see* **Raup, David J., 89d:82105**
Lam, Lui Waves in anisotropic media. (*see* **89g:00020**)
Lançon, F. (*with* Billard, Luc) Two-dimensional system with a quasicrystalline ground state. (French summary) **89m:82057**
Larkin, A. I. *see* **Vinokur, V. M.; et al., 89k:82076**
Lavrentovich, O. D. *see* **Kurik, M. V., 89i:82071**
Lequeux, F. (*with* Kléman, M.) Helicoidal instability in cholesteric capillary tubes. (French summary) **89d:82100**
— S^2 analysis of cholesteric elasticity. (French summary) **89d:82101**
Lerner, I. V. *see* **Al′tshuler, B. L.; et al.,** (**89f:82003**)
Leung, P. W. (*with* Henley, Christopher L.; Chester, G. V.) Dodecagonal order in a two-dimensional Lennard-Jones system. **89j:82064**
Levitov, L. S. Local rules for quasicrystals. **89f:82060**
Liao, Wuwell Towards the solution of the graph bipartitioning problem. **89a:82028**
— Replica symmetric solutions of the graph-bipartitioning problem with fixed, finite valence. **89d:82102**
Luciani, J.-F. *see* **Hansel, D., 89c:82055**
Luck, J. M. *see* **Godrèche, C.; et al., 89c:82054**; **Nieuwenhuizen, Th. M., 89g:82051** *and* **Forgács, G.; et al., 89i:82068**
Maddocks, J. H. A model for disclinations in nematic liquid crystals. **89b:82088**
Marinari, E. *see* **Cabasino, S.; et al., 89k:82070**
Marston, J. Brad (*with* Affleck, Ian) Symplectic Landau-Ginzburg fixed points and the localization problem. **89a:82029**
Melroy, O. R. *see* **Kaufman, J. H.; et al., 89k:82071**
Méritet, Alain *see* **Gaveau, Bernard, 89m:82055**
Mladenov, Ivailo M. Saxon-Hutner theorem for periodic multilayers. **89d:82103**
Morita, Tohru *see* **Katsura, Shigetoshi; et al., 89f:82059**
Mottishaw, P. *see* **De Dominicis, C., 89c:82051**; **Wong, K. Y. M.; et al., 89c:82053** *and* **Dewar, Roderick C., 89j:82059**
Murenzi, R. *see* **Argoul, F.; et al., 89k:82069**
Nagaya, Tomoyuki (*with* Orihara, Hiroshi; Ishibashi, Yoshihiro) Collective motion of an assembly of disclinations in the nonorthogonally twisted nematics quenched below the clearing point. **89a:82030**
Nakhmedov, E. P. *see* **Firsov, Yu. A.; et al.,** (**89f:82003**)
Nelson, David R. *see* **Selinger, Jonathan V., 89d:82106**
Neumann, Avidan U. (*with* Derrida, B.; Weisbuch, Gérard) Domains and distances in magnetic systems. **89i:82072**
Nielsen, Holger Bech *see* **Bennett, D. L.; et al.,** (**89f:81005**)
Nieuwenhuizen, Th. M. (*with* Luck, J. M.) Lifshitz singularities in random harmonic chains: periodic amplitudes near the band edge and near special frequencies. **89g:82051**
— *see also* **Forgács, G.; et al., 89i:82068**
Odagaki, T. (*with* Aoyama, Hideaki) Hyperinflation in periodic and quasiperiodic chains. **89d:82104**
Oppermann, R. Interacting disordered systems with more than one order parameter. (*see* **89f:82003**)
Orihara, Hiroshi *see* **Nagaya, Tomoyuki; et al., 89a:82030**
Orland, H. *see* **Forgács, G.; et al., 89i:82068**
Paladin, G. *see* **Deutsch, J. M., 89j:82058**
Paolucci, P. *see* **Cabasino, S.; et al., 89k:82070**
Parisi, Giorgio Spin glasses and optimization problems without replicas. (*see* **89j:82001**)
— Some applications of field theory to amorphous systems. (*see* **89b:81007**)
— *see also* **Cabasino, S.; et al., 89k:82070**
Pavlovitch, A. *see* **Gefen, Yuval; et al., 89d:82098**
Peng, Ju Lin *see* **Bursill, L. A.; et al., 89h:82034**
Penna, Vittorio Equilibrium configurations of systems with topological defects. (Italian summary) **89c:82058**
Perez, J. Fernando *see* **Bovier, Anton; et al., 89c:82050**
Peyrière, Jacques *see* **Gefen, Yuval; et al., 89d:82098**
Pichard, J.-L. *see* **Zanon, N., 89d:82109**
Pietronero, L. (*with* Erzan, Ayşe; Evertsz, C.) Theory of Laplacian fractals: diffusion limited aggregation and dielectric breakdown model. **89i:82073**
Prigodin, V. N. *see* **Firsov, Yu. A.; et al.,** (**89f:82003**)
Raup, David J. (*with* Lakhtakia, Akhlesh) Self-referential decomposition of a class of quadratic irrationals. **89d:82105**
Rodgers, G. J. *see* **Bray, A. J., 89j:82057**
Roux, S. *see* **Guyon, Etienne; et al.,** (**89j:82002**)
Saakyan, D. B. The Derrida model for arbitrary spin. (Russian. English summary) **89f:82061**
Sasaki, Mitsuhiro (*with* Katsura, Shigetoshi) The distribution function of the effective field of the Ising spin glass on the Bethe lattice for the coordination number $z = 4, 5, 6$. **89m:82058**
Selinger, Jonathan V. (*with* Nelson, David R.) Theory of hexatic-to-hexatic transitions. **89d:82106**
Sherrington, D. *see* **Wong, K. Y. M.; et al., 89c:82053** *and* **89f:82064**
Sibani, Paolo *see* **Hoffmann, Karl-Heinz**^{2}**, 89j:82062**
Singh, Rajiv R. P. (*with* Fisher, Michael Ellis) Disordered systems which escape the bound $v \geq 2/d$. Comment to: "Finite-size scaling and correlation lengths for disordered systems" [Phys. Rev. Lett. 57 (1986), no. 24, 2999–3002; MR 89a:82026] by J. T. Chayes, L. Chayes, D. S. Fisher and T. C. Spencer. **89e:82012**
Solov′ev, V. A. (*with* Gryaznov, V. G.) A criterion for the dislocation generation of cracks near the interface. **89m:82059**
Sompolinsky, H. *see* **Crisanti, A., 89a:82027**
Souillard, Bernard Waves and electrons in inhomogeneous media. (*see* **89j:82001**)
Spencer, Thomas Crawford *see* **Chayes, J. T.; et al., 89a:82026** *and* **Singh, Rajiv R. P., 89e:82012**
Stanley, H. E. *see* **Alstrøm, Preben; et al.,** (**89j:00034**)
Stein, D. L. Statics and dynamics of complex systems. (*see* **89j:82001**)
Suzuki, Masuo CAM estimates of critical exponents of spin glasses and percolation. **89f:82062**
Tang, Lei-Han (*with* Griffiths, Robert B.) Localized defects in classical one-dimensional models. **89k:82075**

Theumann, W. K. (*with* Fontanari, J. F.) The spherical model as the limiting n-vector model in a random field. **89f:82063**

Toulouse, G. Verres de spin et ultramétricité. [Spin glasses and ultrametricity] **89d:82107**

Treves, A. (*with* Amit, Daniel J.) Metastable states in asymmetrically diluted Hopfield networks. **89i:82074**

Trunfio, Paul *see* **Alstrøm, Preben; et al., (89j:00034)**

Vallet, F. *see* **Godrèche, C.; et al., 89c:82054**

Venkatesh, Santosh S. *see* **Baldi, Pierre, 89a:82025**

Vicsek, Tamás Disordered patterns in deterministic growth. (*see* **89j:00034**)

Vilgis, T. A. *see* **Boué, F.; et al., 89i:82065**

Vinokur, V. M. (*with* Ioffe, L. B.; Larkin, A. I.; Feĭgel′man, M. V.) System of Josephson junctions as a model of a spin glass. **89k:82076**

Weisbuch, Gérard *see* **Neumann, Avidan U.; et al., 89i:82072**

Weller, Wolfgang *see* **Kasner, M., (89f:82003)**

Weron, Karina Relaxation in glassy materials from Lévy stable distributions. **89d:82108**

Weyers, J. *see* **Horn, David, 89c:82056**

Witten, T. A. Fractal aggregates and other tenuous structures. (*see* **89j:82001**)

Wong, K. Y. M. (*with* Sherrington, D.; Mottishaw, P.; Dewar, Roderick C.; De Dominicis, C.) Graph partitioning and dilute spin glasses: the minimum cost solution. **89c:82053**

— (*with* Sherrington, D.) Intensively connected spin glasses: towards a replica-symmetry-breaking solution of the ground state. **89f:82064**

Zanon, N. (*with* Pichard, J.-L.) Random matrix theory and universal statistics for disordered quantum conductors with spin-dependent hopping. (French summary) **89d:82109**

Items with secondary classifications in 82A57

Al′tshuler, B. L. (*with* Prigodin, V. N.) Dynamical properties of a finite-one-dimensional conductor. **89e:82011**

Anlauf, Joachim K. *see* **Opper, Manfred; et al., 89m:92026**

Ashraff, J. A. (*with* Stinchcombe, R. B.) Dynamic structure factor for the Fibonacci-chain quasicrystal. **89m:82060**

Aviles, Patricio (*with* Giga, Yoshikazu) A mathematical problem related to the physical theory of liquid crystal configurations. **89c:49005**

Barahona, Francisco (*with* Casari, Adolfo) On the magnetisation of the ground states in two-dimensional Ising spin glasses. **89d:82004**

Baskaran, G. *see* **Wille, L. T.; et al., 89d:90096**

Batrouni, G. (*with* Hansen, Alex) Fourier acceleration of iterative processes in disordered systems. **89i:82004**

(Baum, Eric) *see* **Wille, L. T.; et al., 89d:90096**

Blumen, A. *see* **Köhler, Günther Horst; et al., 89i:82041**

Bodenschatz, E. *see* **Kramer, Lorenz; et al., (89f:76003)**

Bös, S. (*with* Kühn, Reimer; van Hemmen, J. L.) Martingale approach to neural networks with hierarchically structured information. **89j:92023**

Bovier, Anton (*with* Klein, Abel) Weak disorder expansion of the invariant measure for the one-dimensional Anderson model. **89k:82007**

Brady, John F. *see* **Koch, Donald L.; et al., 89m:76063**

Brenner, Howard *see* **Koch, Donald L.; et al., 89m:76063**

Brézin, É. *see* **Schulz, U.; et al., 89i:82045**

Buhmann, J. (*with* Divko, R.; Schulten, K.) Associative memory with high information content. **89m:92012**

Casari, Adolfo *see* **Barahona, Francisco, 89d:82004**

Choi, M. Y. Dynamic model of neural networks. **89k:92012**

Cox, Raymond G. *see* **Koch, Donald L.; et al., 89m:76063**

Dean, Edward J. (*with* Glowinski, R.; Li, Chin Hsien) Applications of operator splitting methods to the numerical solution of nonlinear problems in continuum mechanics and physics. **89e:65060**

— (*with* Glowinski, R.; Li, Chin Hsien) Numerical solution of parabolic problems in high dimensions. **89c:65096**

Derrida, B. (*with* Meir, Ronny) Chaotic behavior of a layered neural network. **89h:92012**

Diederich, Sigurd *see* **Opper, Manfred; et al., 89m:92026**

Divko, R. *see* **Buhmann, J.; et al., 89m:92012**

Dobrushin, R. L. Induction on volume and no cluster expansion. **89c:82007**

Dubois-Violette, E. *see* **Pansu, B., 89b:58053**

Evertsz, C. *see* **Pietronero, L.; et al., 89d:82042**

Ezhov, A. A. *see* **Vedenov, A. A.; et al., 89h:92073**

Fasano, F. *see* **Serra, Roberto; et al., 89j:92038**

Fontanari, J. F. (*with* Köberle, R.) Information processing in synchronous neural networks. (French summary) **89c:92017**

Fujiwara, Takeo *see* **Krajčí, Marian, 89k:82078**

Gardner, E. Multiconnected neural network models. **89a:82040**

Gates, D. J. Growth and decrescence of two-dimensional crystals: a Markov rate process. **89m:82061**

Giga, Yoshikazu *see* **Aviles, Patricio, 89c:49005**

Glowinski, R. *see* **Dean, Edward J.; et al., 89c:65096** *and* **89e:65060**

Goldschmidt, Yadin Y. *see* **Lai, Pik-Yin, 89a:05120**

Grensing, D. *see* **van Hemmen, J. L.; et al., 89i:92018** *and* **89m:92020**

Güntherodt, H. J. *see* **Riedinger, R.; et al., 89h:05023**

Gutfreund, H. (*with* Reger, J. D.; Young, A. P.) The nature of attractors in an asymmetric spin glass with deterministic dynamics. (Not in MR)

Guyon, Etienne The physics of random matter. (*see* **89j:82001**)

Habar, M. *see* **Riedinger, R.; et al., 89h:05023**

Haken, Hermann Nonequilibrium phase transitions in pattern recognition and associative memory. **89e:92012**

Hansen, Alex *see* **Batrouni, G., 89i:82004**

Hartman, Hyman (*with* Tamayo, Pablo; Klein, William) Inhomogeneous cellular automata and statistical mechanics. **89b:82140**

Harvey, Jeffrey A. (*with* Moore, Gregory W.; Vafa, Cumrun) Quasicrystalline compactification. **89m:81144**

Hélein, Frédéric Minima de la fonctionnelle énergie libre des cristaux liquides. (English summary) [Minima of the free energy functional of liquid crystals] **89g:58049**

van Hemmen, J. L. (*with* Rzążewski, K.) Nonlinear neural networks with external noise. **89a:92021**

— (*with* Grensing, D.; Huber, A.; Kühn, Reimer) Nonlinear neural networks. I. General theory. **89i:92018**

— (*with* Grensing, D.; Huber, A.; Kühn, Reimer) Nonlinear neural networks. II. Information processing. **89m:92020**

— *see also* **Riedel, U.; et al., 89f:92023** *and* **Bös, S.; et al., 89j:92023**

Hertz, J. A. *see* **Krogh, A., 89g:92019**

Ho, Tin-Lun *see* **Rabson, David A.; et al., 89k:52017**

Horner, H. Dynamics of spin glasses and related models of neural networks. **89b:92015**

Huber, A. *see* **van Hemmen, J. L.; et al., 89i:92018** *and* **89m:92020**

Janssen, Ted W. J. M. Aperiodic crystals: a contradictio in terminis? **89m:82062**

Kanter, Ido Asymmetric neural networks with multispin interactions. **89j:92031**

Kawasaki, Kyozi *see* **Nagai, Tatsuzo; et al., 89f:82002**

Keeler, James D. (*with* Pichler, Elgar E.; Ross, John) Noise in neural networks: thresholds, hysteresis, and neuromodulation of signal-to-noise. **89m:92022**

King, John Robert Interacting dopant diffusions in crystalline silicon. **89d:35086**

King, R. Bruce Topological aspects of infinite metal clusters and superconductors. (*see* **89b:92038**)

Kirzhnits, D. A. On the "Moscow-zero" problem. **89h:81281**

Klein, Abel (*with* Speis, Athanasios) Smoothness of the density of states in the Anderson model on a one-dimensional strip. **89k:82012**

— *see also* **Bovier, Anton, 89k:82007**

Klein, William *see* **Hartman, Hyman; et al., 89b:82140**

Knapp, E. W. *see* **Köhler, Günther Horst; et al., 89i:82041**

Köberle, R. *see* **Fontanari, J. F., 89c:92017**

Koch, Donald L. (*with* Cox, Raymond G.; Brenner, Howard; Brady, John F.) The effect of order on dispersion in porous media. **89m:76063**

Köhler, Günther Horst (*with* Knapp, E. W.; Blumen, A.) Continuous-time random walks on a long-range hierarchical model. **89i:82041**

Korenblit, I. Ya. (*with* Shender, E. F.) Magnetic properties of frustrated antiferromagnets. Phase transition into spin glass. **89f:82020**

Krajčí, Marian (*with* Fujiwara, Takeo) Strictly localized eigenstates on a three-dimensional Penrose lattice. **89k:82078**

Kramer, Lorenz (*with* Zimmermann, Walter Josef; Bodenschatz, E.; Pesch, W.) Pattern selection in convective instabilities with axial anisotropy. (*see* **89f:76003**)

Kramer, Peter Space-group theory for a nonperiodic icosahedral quasilattice. **89b:20103**

Krauth, Werner (*with* Nadal, J.-P.; Mézard, Marc) The roles of stability and symmetry in the dynamics of neural networks. **89g:92018**

Krogh, A. (*with* Hertz, J. A.) Mean-field analysis of hierarchical associative networks with "magnetisation". **89g:92019**

Kühn, Reimer *see* **Riedel, U.; et al., 89f:92023; van Hemmen, J. L.; et al., 89i:92018; Bös, S.; et al., 89j:92023** *and* **van Hemmen, J. L.; et al., 89m:92020**

Kürten, K. E. "Training" quasirandom neural networks. **89h:92025**

— Correspondence between neural threshold networks and Kauffman Boolean cellular automata. **89g:92020**

— Critical phenomena in model neural networks. **89d:92031**

Lai, Pik-Yin (*with* Goldschmidt, Yadin Y.) Application of statistical mechanics to combinatorial optimization problems: the chromatic number problem and q-partitioning of a graph. **89a:05120**

Le Jan, Y. Temps local et superchamp. [Local times and superfields] **89h:60125**

Levchenko, E. B. *see* **Vedenov, A. A.; et al., 89h:92073**

Leyvraz, F. Reaction kinetics for diffusion controlled aggregation. **89g:92084**

Li, Chin Hsien *see* **Dean, Edward J.; et al., 89c:65096** *and* **89e:65060**

Lima, R. Problems related to dynamical systems. (Russian summary) **89j:58118**

Liu, Zhong Zhu A coarse graining for the Ising model on two-dimensional disordered lattice. **89k:82097**

— Behavior of the Ising model for 2-D topological disordered lattice near the fixed points. **89k:82098**

Luck, J. M. (*with* Nieuwenhuizen, Th. M.) Lifshitz tails and long-time decay in random systems with arbitrary disorder. **89j:82045**

Martinelli, Fabio (*with* Scoppola, E.) Introduction to the mathematical theory of Anderson localization. **89g:82002**

Meir, Ronny *see* **Derrida, B., 89h:92012**

Mermin, N. David *see* **Rabson, David A.; et al., 89k:52017**

Mézard, Marc (*with* Nadal, J.-P.; Toulouse, G.) Solvable models of working memories. (French summary) **89i:92021**

— *see also* **Krauth, Werner; et al., 89g:92018**

Miranda, E. N. (*with* Parga, N.) Ultrametricity in the Kauffman model: a numerical test **89b:82143**

Moore, Gregory W. *see* **Harvey, Jeffrey A.; et al., 89m:81144**

Nadal, J.-P. Neural networks: a path from neurobiology to psychology? **89m:92057**

— *see also* **Krauth, Werner; et al., 89g:92018** *and* **Mézard, Marc; et al., 89i:92021**

Nagai, Tatsuzo (*with* Kawasaki, Kyozi; Nakamura, Katsuhiro) Vertex dynamics of two-dimensional cellular patterns. **89f:82002**

Nakamura, Katsuhiro *see* **Nagai, Tatsuzo; et al., 89f:82002**

Nieuwenhuizen, Th. M. *see* **Luck, J. M., 89j:82045**

Nishimori, Hidetoshi *see* **Ozeki, Yukiyasu, 89d:82138**

Oelhafen, P. *see* **Riedinger, R.; et al., 89h:05023**

Onishchuk, V. A. *see* **Ovchinnikov, A. A., 89m:82019**

Opper, Manfred (*with* Diederich, Sigurd; Anlauf, Joachim K.) Statistical mechanics of learning in neural network models. **89m:92026**

Orland, H. *see* **Schulz, U.; et al., 89i:82045**

Ovchinnikov, A. A. (*with* Onishchuk, V. A.) Solution of the kinetic Ising-Kac model. **89m:82019**

Ovid′ko, I. A. Topologically nontrivial loop defects in condensed media. **89b:82145**

Ozeki, Yukiyasu (*with* Nishimori, Hidetoshi) Distribution of Yang-Lee zeros of the $\pm J$ Ising model. **89d:82138**

Paladin, G. (*with* Vulpiani, A.) Anomalous scaling laws in multifractal objects. **89k:58192**

Pansu, B. (*with* Dubois-Violette, E.) Textures of S^3 blue phase. (French summary) **89b:58053**

Parga, N. *see* **Miranda, E. N., 89b:82143**

Peliti, Luca Statistical mechanical models of the emergence of biological order. **89i:92002**

Pesch, W. *see* **Kramer, Lorenz; et al.**, (**89f:76003**)

Pichler, Elgar E. *see* **Keeler, James D.; et al., 89m:92022**

Pietronero, L. (*with* Evertsz, C.; Siebesma, A. P.) Fractal and multifractal structures in kinetic critical phenomena. **89d:82042**

Prigodin, V. N. *see* **Al′tshuler, B. L., 89e:82011**

Rabson, David A. (*with* Ho, Tin-Lun; Mermin, N. David) Aperiodic tilings with nonsymmorphic space groups $p2^j gm$. **89k:52017**

Radin, Charles Low temperature and the origin of crystalline symmetry. **89g:82057**

Reger, J. D. *see* **Gutfreund, H.; et al.**, (Not in MR)

Riedel, U. (*with* Kühn, Reimer; van Hemmen, J. L.) Temporal sequences and chaos in neural nets. **89f:92023**

Riedinger, R. (*with* Habar, M.; Oelhafen, P.; Güntherodt, H. J.) About the Delaunay-Voronoï tesselation. **89h:05023**

Ross, John *see* **Keeler, James D.; et al., 89m:92022**

Rzążewski, K. *see* **van Hemmen, J. L., 89a:92021**

Schulten, K. *see* **Buhmann, J.; et al., 89m:92012**

Schulz, U. (*with* Villain, J.; Brézin, É.; Orland, H.) Thermal fluctuations in some random field models. **89i:82045**

Scoppola, E. *see* **Martinelli, Fabio, 89g:82002**

Serra, Roberto (*with* Zanarini, G.; Fasano, F.) Generalized Hopfield learning rules. **89j:92038**

Shender, E. F. *see* **Korenblit, I. Ya., 89f:82020**

Siebesma, A. P. *see* **Pietronero, L.; et al., 89d:82042**

(Souletie, Jean) *see* **Chance and matter, 89j:82001**

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School:

Theoretical Physics ★ Le hasard et la matière. [Chance and matter] **89j:82001**

82A60 Crystals {For crystallographic group theory, see 20H15.}

Alexander, Shlomo *see* **Olami, Z., 89m:82064**

Aoyama, Hideaki *see* **Odagaki, T., 89k:82079**

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— *see also* **Ishihara, K. N., 89g:82056**
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Items with secondary classifications in 82A60

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Bertaut, Erwin-Félix *see* **Weigel, Dominique, 89h:20071**
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Bryan, R. K. Maximum entropy and the phase problem in protein crystallography. (*see* **89f:62002**)
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Caglioti, Giuseppe The world of Escher and physics. (*see* **89m:00011**)
Chester, G. V. *see* **Leung, P. W.; et al., 89j:82064**
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Fanidis, Ch. *see* **Doni, E. G.; et al.,** (Not in MR)
Fedoseeva, I. L. *see* **Koptsik, V. A.; et al., 89m:20056**
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(Haüy, René-Just) *see* **Burckhardt, Johann Jakob, 89m:51020**
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Ho, Tin-Lun *see* **Rabson, David A.; et al., 89k:52017**
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Karasev, V. P. *see* **Gorelik, V. S., 89f:82018**
Katz, André *see* **Oguey, Christophe; et al., 89i:52024**
Kirillova, L. G. *see* **Stepanov, A. E., 89f:80001**
Kléman, M. *see* **Entin-Wohlman, O.; et al., 89m:52019**
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Kramer, L. *see* **Haase, R. W.; et al., 89b:52024**
Kramer, Peter *see* **Haase, R. W.; et al., 89b:52024**
Kuntsevich, T. S. *see* **Chuprunov, E. V.; et al., 89k:20068**
Kuzhukeev, Zh. N. M. *see* **Koptsik, V. A.; et al., 89m:20056**
Lalvani, H. *see* **Haase, R. W.; et al., 89b:52024**
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Lidin, Sven Ring-like minimal surfaces. (French summary) **89j:53007**
Ludwig, W. (*with* Falter, C.) ★ Symmetries in physics. **89h:81001**
Malinovskiĭ, T. I. *see* **Andrushevskiĭ, N. M.; et al., 89e:20090**
Maslova, N. B. (*with* Romanovskiĭ, Yu. R.) Justification of the Hilbert method in the theory of kinetic equations. (Russian) **89a:35191**
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Pavlovitch, A. *see* **Entin-Wohlman, O.; et al., 89m:52019**
Portier, Richard *see* **Gratias, Denis; et al., 89j:81244**
Priezzhev, V. B. *see* **Kornilov, E. I., 89j:82006**
Putnam, Rand M. *see* **Hatch, Dorian M.; et al., 89j:20020**
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Rhyner, J. *see* **Levitov, L. S., 89m:20057**
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Rouvray, D. H. *see* **Hanson, M. P., (89b:92038)**
Schlett, Zeno *see* **Balint, Ştefan, 89b:80003**
(Scholz, E.) *see* **Burckhardt, Johann Jakob, 89m:51020**
Shafranovskiĭ, I. I. A table of 32 forms of symmetry and the regularities contained in it. (Russian) **89k:20071**
Shchedrin, B. M. *see* **Andrushevskiĭ, N. M.; et al., 89e:20090**
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Sloane, N. J. A. *see* **Elser, Veit, 89d:20042**
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ical modeling of the growth processes of crystal semiconductor materials] **89f:80001**
Stokes, Harold T. *see* **Hatch, Dorian M.; et al., 89j:20020**
Tarkhova, T. N. *see* **Chuprunov, E. V.; et al., 89k:20068**
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Vulis, M. *see* **Auslander, L.; et al., 89h:65228**
Weigel, Dominique (*with* Bertaut, Erwin-Félix) Sur la relation entre les groupes ponctuels à quatre dimensions d'une phase modulée mono incommensurable et de sa structure de base. (English summary) [On the relation between the four-dimensional point groups of a mono-incommensurate modulated phase and its basic structure] **89h:20071**
Westcott, M. *see* **Gates, D. J., 89e:82010a** *and* **89e:82010b**
Wondratschek, Hans *see* **Matsumoto, Takeo, 89m:20059**
Wright, David C. *see* **Rokhsar, Daniel S.; et al., 89g:20080** *and* **89g:20081**
Zamorzaev, A. M. Properties of multidimensional groups of the symmetry of similarity. (Russian) (*see* **89d:81001**)

82A65 Metals

Baba, Kensuke (*with* Miyamoto, Kiyoshi) Determination of sphere sized distribution from chord length square (CLS) distribution. (*see* **89g:82013**)
Borwein, David (*with* Borwein, J. M.; Shail, R.; Zucker, I. J.) Energy of static electron lattices. **89f:82070**
Borwein, J. M. *see* **Borwein, David; et al., 89f:82070**
Cornu, Françoise Two-dimensional models for an electrode with adsorption sites. **89m:82066**
Miyamoto, Kiyoshi *see* **Baba, Kensuke, (89g:82013)**
Shail, R. *see* **Borwein, David; et al., 89f:82070**
Zucker, I. J. *see* **Borwein, David; et al., 89f:82070**

Items with secondary classifications in 82A65

de Almeida, Rita M. C. (*with* Iglesias, J. R.) Towards statistical mechanics of a 2D random cellular structure. **89i:82112**
Efetov, K. B. Anderson transition on a Bethe lattice (the symplectic and orthogonal ensembles). **89d:82097**
Iglesias, J. R. *see* **de Almeida, Rita M. C., 89i:82112**
Luo, Xiao Bo *see* **Zhang, Jie^2**, (Not in MR)
Lyubchenko, V. I. (*with* Marchenko, G. N.) Nonadiabatic modes of the wave propagation of a heterogeneous reaction over a metallic thread. (Russian) (Not in MR)
Marchenko, G. N. *see* **Lyubchenko, V. I.**, (Not in MR)
Schneider, Toni *see* **Würtz, D.; et al., 89g:82083**
Soerensen, M. P. *see* **Würtz, D.; et al., 89g:82083**
Würtz, D. (*with* Soerensen, M. P.; Schneider, Toni) Quasiperiodic Krönig-Penney model on a Fibonacci superlattice. **89g:82083**
Zhang, Jie^2 (*with* Luo, Xiao Bo) The application of catastrophe theory to solid state transitions in metals. (Chinese) (Not in MR)

82A67 Lattice statistics

An, Guozhong A note on the cluster variation method. **89k:82081**
Andrews, G. E. *see* **Forrester, P. J., 89b:82092**
Ball, J. K. *see* **Wood, D. W.; et al., 89d:82120**
Baxter, Rodney James Chromatic polynomials of large triangular lattices. **89a:82033**
Bernasconi, J. Statistical physics and optimization: binary sequences with small autocorrelations. **89h:82038**
Bhan, H. L. *see* **Bhat, V. K.; et al., 89h:82039**
Bhat, V. K. (*with* Bhan, H. L.; Singh, Yoginder) Exponent $\nu_\perp$ for 2D directed compact site animals. **89h:82039**
Bose, Indrani (*with* Ray, Purusattam; Mukhopadhyay, Subhashish) Effect of loops on spiral lattice animal statistics. **89i:82076**
Cardy, John L. Universal amplitude in the sizes of rings in two dimensions. **89i:82077**
Chen, Xi Yao (*with* Pan, C. Y.) Finite temperature entropy of the antiferromagnetic Potts model. **89k:82082**
— *see also* **Pan, C. Y., 89k:82083**
Cornu, Françoise (*with* Jancovici, Bernard) On the two-dimensional Coulomb gas. **89d:82113**
Date, E. (*with* Jimbo, Michio; Kuniba, A.; Miwa, Tetsuji; Okado, Masato) Exactly solvable SOS models: local height probabilities and theta function identities. **89d:82114**
De'Bell, K. *see* **Fujiki, N. M.; et al., 89b:82093**
Debierre, Jean-Marc *see* **Turban, Loïc, 89b:82099**
Dunlop, François (*with* Ruiz, Jean) Noncrossing walks and interfacial wetting. (French summary) **89i:82078**
Enting, I. G. *see* **Guttmann, A. J., 89a:82034** *and* **89g:82059**
Fonk, Y. (*with* Hilhorst, H.) Ground-state and quenched-state properties of a one-dimensional interacting lattice gas in a random potential. **89f:82071**
Forrester, P. J. (*with* Andrews, G. E.) Height probabilities in solid-on-solid models. II. **89b:82092**
Fröhlich, Jürg (*with* Pfister, Charles-Ed.) Semi-infinite Ising model. II. The wetting and layering transitions. **89h:82040**
Fujiki, N. M. (*with* De'Bell, K.; Geldart, D. J. W.) Lattice sums for dipolar systems. **89b:82093**
Geldart, D. J. W. *see* **Fujiki, N. M.; et al., 89b:82093**
Guha, A. (*with* Lim, H. A.; Shapir, Y.) Nonperturbative tricritical exponents of trails. II. Exact enumerations on square and simple cubic lattices. **89d:82115**
Gutowitz, Howard A. (*with* Victor, Jonathan D.) Local structure theory: calculation on hexagonal arrays, and interaction of rule and lattice. **89k:82084**
Guttmann, A. J. (*with* Enting, I. G.) The size and number of rings on the square lattice. **89a:82034**
— (*with* Enting, I. G.) The number of convex polygons on the square and honeycomb lattices. **89g:82059**
Häsler, Karin On topological transitivity of set configuration spaces. **89g:82060**
Hattori, Kumiko (*with* Hattori, Tetsuya; Watanabe, Hiroshi^2) Block spin approach to the singularity properties of the continued fractions. **89d:82116**
Hattori, Tetsuya *see* **Hattori, Kumiko; et al., 89d:82116**
Hilhorst, H. *see* **Fonk, Y., 89f:82071**
Hite, G. E. *see* **Seitz, W. A.; et al., 89c:82063**
Iglói, F. Quantum Ising model on a quasiperiodic lattice. **89k:82085**
Ikeda, Kazuyosi *see* **Nisizima, Kunisuke, 89b:82095** *and* **89b:82096**
Itoh, Yoshimasa *see* **Teramoto, Kiyoshi, 89d:82118**
Jancovici, Bernard *see* **Cornu, Françoise, 89d:82113**
Janse van Rensburg, E. J. Resistance of the Edwards walk. **89c:82060**
Jimbo, Michio *see* **Date, E.; et al., 89d:82114**
Klein, D. J. *see* **Seitz, W. A.; et al., 89c:82063**
Kuniba, A. *see* **Date, E.; et al., 89d:82114**
Liao, Wuwell Replica-symmetric solution of the graph-bipartitioning problem. **89b:82094**
Lim, H. A. *see* **Guha, A.; et al., 89d:82115**
Lin, K'ê Ying (*with* Wang, Sun Chong) Spontaneous magnetization of the Ising model on the Union Jack and 4-6 lattices. **89d:82117**
Lindström, Bernt *see* **Rosengren, Anders, 89c:82062**
Martin, P. P. Temperley-Lieb algebra, group theory and the Potts model. **89c:82061**
Miwa, Tetsuji *see* **Date, E.; et al., 89d:82114**
Mukhopadhyay, Subhashish *see* **Bose, Indrani; et al., 89i:82076**
Nisizima, Kunisuke (*with* Ikeda, Kazuyosi) Cluster sums for lattice gases with second nearest neighbour interactions. II. One-dimensional lattice. **89b:82095**
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Okado, Masato *see* **Date, E.; et al., 89d:82114**
Pan, C. Y. (*with* Chen, Xi Yao) q-color problem in D dimensions. **89k:82083**
— *see also* **Chen, Xi Yao, 89k:82082**
Pfister, Charles-Ed. *see* **Fröhlich, Jürg, 89h:82040**
Phares, Alain J. (*with* Wunderlich, Francis J.) Thermodynamics and molecular freedom of dimers on plane honeycomb and Kagomé lattices. (Italian and Russian summaries) **89m:82067**
— (*with* Wunderlich, Francis J.) Dimers on two- and three-dimensional lattices: shift operator matrix solution. (Not in MR)
Privman, V. (*with* Švrakić, N. M.) Difference equations in statistical mechanics. I. Cluster statistics models. **89i:82079**
— (*with* Švrakić, N. M.) Difference equations in statistical mechanics. II. Solid-on-solid models in two dimensions. **89i:82080**
— (*with* Švrakić, N. M.) Exact generating function for fully directed compact lattice animals. **89b:82097**
Ray, Purusattam *see* **Bose, Indrani; et al., 89i:82076**
Rosengren, Anders (*with* Lindström, Bernt) A combinatorial series expansion for the Ising model. **89c:82062**
— On the number of spanning trees for the 3D simple cubic lattice. **89b:82098**
Ruiz, Jean *see* **Dunlop, François, 89i:82078**
Seitz, W. A. (*with* Klein, D. J.; Hite, G. E.) Interacting dimers on a Sierpiński gasket. **89c:82063**
Shapir, Y. *see* **Guha, A.; et al., 89d:82115**
Singh, Yoginder *see* **Bhat, V. K.; et al., 89h:82039**
Švrakić, N. M. *see* **Privman, V., 89b:82097; 89i:82079** *and* **89i:82080**
Taguchi, Yoshi-hiro Non-integer-dimensional hyper-Euclidean lattices on Sierpiński carpets. **89a:82035**
Teramoto, Kiyoshi (*with* Itoh, Yoshimasa) A new method of deriving inequalities to determine the ground state of the lattice gas. **89d:82118**
Turban, Loïc (*with* Debierre, Jean-Marc) Crossover in the one-dimensional self-directed walk. **89b:82099**
Turnbull, R. W. *see* **Wood, D. W.; et al., 89d:82120**
Victor, Jonathan D. *see* **Gutowitz, Howard A., 89k:82084**
Wang, Jian Bond-diluted rigid animals for central force model. **89c:82064**
Wang, Sun Chong *see* **Lin, K'ê Ying, 89d:82117**
Watanabe, Hiroshi^2 *see* **Hattori, Kumiko; et al., 89d:82116**
Wood, D. W. The algebraic construction of partition function zeros: universality and algebraic cycles. **89d:82119**
— (*with* Turnbull, R. W.; Ball, J. K.) Algebraic approximations to the locus of partition function zeros. **89d:82120**
Wunderlich, Francis J. *see* **Phares, Alain J., 89m:82067** *and* (Not in MR)

Items with secondary classifications in 82A67

Abraham, D. B. (*with* Upton, P. J.) Dynamics of Gaussian interface models. **89i:82022**
Aharony, Amnon *see* **Meir, Yigal; et al., 89k:82058**
Alcaraz, Francisco C. (*with* Barber, Michael N.; Batchelor, M. T.) Conformal invariance, the XXZ chain and the operator content of two-dimensional critical systems. **89f:82073**
Azaria, P. (*with* Giacomini, H. J.) An exactly soluble two-dimensional Ising model with magnetic field. **89m:82070**
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Barber, Michael N. *see* **Alcaraz, Francisco C.; et al., 89f:82073**
Bariev, R. Z. Correlation functions of the semi-infinite two-dimensional Ising model. III. Influence of a "fixed" boundary. **89k:82088**
Barma, Mustansir *see* **Dhar, Deepak; et al., 89a:90059**
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— Free energy of the solvable chiral Potts model. **89j:82081**
— *see also* **Owczarek, A. L., 89k:82059**

Bhatti, F. M. (*with* Essam, J. W.) Low density series expansions for backbone properties of percolation clusters. **89c:82039**

Binder, P. M. *see* **Ernst, M. H., 89i:82035**

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Chakrabarti, B. K. *see* **Dhar, Deepak; et al., 89a:90059**

Chang, S. J. *see* **Lin, K'ê Ying, 89i:05022**

Chubukov, A. V. *see* **Khveshchenko, D. V., 89i:82018**

Coutinho-Filho, Maurício D. *see* **Nemirovsky, Adolfo M., 89m:82053**

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Essam, J. W. *see* **Bhatti, F. M., 89c:82039**

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Giacomini, H. J. *see* **Azaria, P., 89m:82070**

Guttmann, A. J. *see* **Baxter, Rodney James, 89i:82047**

Hansel, D. (*with* Jolicoeur, T.; Maillard, J.-M.) Staggered lattice models. **89f:82078**

Harris, A. Brooks *see* **Meir, Yigal; et al., 89k:82058**

Hässelbarth, Werner The inverse problem of isomer enumeration. **89a:92084**

Hu, Jia Zhen *see* **Yao, Jian; et al., 89k:82109**

Jolicoeur, T. *see* **Hansel, D.; et al., 89f:82078**

Kesten, Harry Hitting probabilities of random walks on $\mathbf{Z}^d$. **89a:60163**

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— Spin-spin correlation function in the two-dimensional Ising model with linear defects. II. $T > T_c$. **89m:82079b**

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Korshunov, S. E. Quantum diffusion of vortices in 2D lattice systems. **89h:81154**

Li, Bo Zang *see* **Zhang, Zhao Qing; et al., 89g:82048**

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— (*with* Chang, S. J.) Rigorous results for the number of convex polygons on the square and honeycomb lattices. **89i:05022**

Luck, J. M. *see* **Forgács, G.; et al., 89i:82068**

Maillard, J.-M. *see* **Hansel, D.; et al., 89f:82078**

Mayer, Dieter H. On the location of poles of Ruelle's zeta function. **89f:58114**

Meir, Yigal (*with* Aharony, Amnon; Harris, A. Brooks) Percolation in negative field and lattice animals. **89k:82058**

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— Erratum: "Dimer problem solved by Vdovichenko's method". **89a:82049b**

Naudts, J. Dimension of discrete fractal spaces. **89g:28012**

Nemirovsky, Adolfo M. (*with* Coutinho-Filho, Maurício D.) Packing flexible polymer chains on a lattice. **89m:82053**

Nieuwenhuizen, Th. M. *see* **Forgács, G.; et al., 89i:82068**

Nijboer, B. R. A. (*with* Ruijgrok, Th. W.) On the energy per particle in three- and two-dimensional Wigner lattices. **89j:82056**

Orland, H. *see* **Forgács, G.; et al., 89i:82068**

Owczarek, A. L. (*with* Baxter, Rodney James) Generalised percolation probabilities for the self-dual Potts model. **89k:82059**

Pu, Fu Ke *see* **Zhang, Zhao Qing; et al., 89g:82048**

Ray, Purusattam *see* **Bose, Indrani; et al., 89c:82067**

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Ruijgrok, Th. W. *see* **Nijboer, B. R. A., 89j:82056**

Saleur, H. *see* **Di Francesco, P.; et al., 89b:82024**

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Tang, Kun Fa *see* **Yao, Jian; et al., 89k:82109**

Taraphder, A. *see* **Dhar, Deepak; et al., 89a:90059**

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Upton, P. J. *see* **Abraham, D. B., 89i:82022**

Yao, Jian (*with* Tang, Kun Fa; Hu, Jia Zhen) A disorder solution for a generalised mixed-spin model on anisotropic Kagomé lattices. **89k:82109**

Zahradník, M. Analyticity of low-temperature phase diagrams of lattice spin models. **89f:82096**

Zhang, Zhao Qing (*with* Pu, Fu Ke; Li, Bo Zang) A determinant for the transfer-matrix of the one-dimensional directed bond percolation with further neighbour bonds. **89g:82048**

Żołądek, Henryk On relations between additive and multiplicative clustering operators. **89e:47042**

Zuber, J.-B. *see* **Di Francesco, P.; et al., 89b:82024**

82A68 Lattice models

Abraham, D. B. (*with* Upton, P. J.) Interface at general orientation in a two-dimensional Ising model. **89c:82065**

— (*with* Newman, C. M.) Wetting in a three-dimensional system: an exact solution. **89m:82068**

Adler, Joan (*with* Palmer, R. G.; Meyer, Horst) Transmission of order in some unusual dilute systems. **89a:82036**

de Aguiar, F. S. (*with* Bosco, F. A.; Goulart Rosa, S., Jr.) Yang-Lee zeros of the Ising model on the closed Cayley tree. **89a:82037**

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— (*with* Fernández, Roberto) Critical exponents for long-range interactions. **89h:82041**

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— (*with* Martins, Márcio J.) Conformal invariance and critical exponents of the Takhtajan-Babujian models. **89m:82069**

Allain, C. (*with* Cloitre, M.) Spatial spectrum of a general family of self-similar arrays. **89k:82086**

Ananthakrishna, G. (*with* Balakrishnan, Radha; Hao, Bai Lin) Errata: "Spatially chaotic spin patterns in a field-perturbed Heisenberg chain" [Phys. Lett. A **121** (1987), no. 8-9, 407–410; MR 88e:82029]. **89f:82074**

Angles d'Auriac, J. C. (*with* Rammal, R.) On kinetic Ising models in one dimension. **89h:82042**

Arai, Masao[2] *see* **Fujiwara, Takeo; et al., 89d:82124**

Arovas, Daniel P. (*with* Auerbach, Assa; Haldane, F. D. M.) Extended Heisenberg models of antiferromagnetism: analogies to the fractional quantum Hall effect. **89c:82066**

Ashraff, J. A. (*with* Southern, B. W.) Density of states and dynamic scaling on the Vicsek snowflake fractal. **89k:82087**

Audit, Ph. Transfer matrix approach to the three-dimensional Ising model. **89f:82075**

Auerbach, Assa *see* **Arovas, Daniel P.; et al., 89c:82066**

Au-Yang, H. (*with* Perk, Jacques H. H.; McCoy, Barry M.; Tang, Shuang; Yan, Mu Lin) Commuting transfer matrices in the chiral Potts models: solutions of star-triangle equations with genus > 1. **89g:82061**

— *see also* **Baxter, Rodney James; et al., 89g:82062**

Avignon, M. *see* **Spronken, G., 89k:82106**

Aviram, I. On the inflation, deflation and self-similarity of binary sequences. Application: a one-dimensional diatomic quasicrystal. **89a:82038**

Azaria, P. (*with* Giacomini, H. J.) An exactly soluble two-dimensional Ising model with magnetic field. **89m:82070**

Baake, Michael *see* **Alcaraz, Francisco C.; et al., 89b:82101**

Bakaev, A. V. (*with* Ermilov, A. N.; Kurbatov, A. M.) A frozen Potts model on a Cayley tree. **89g:82063**

Balakrishnan, Radha *see* **Ananthakrishna, G.; et al., 89f:82074**

Barber, Michael N. *see* **Alcaraz, Francisco C.; et al., 89b:82100; Batchelor, M. T.; et al., 89b:82103; Alcaraz, Francisco C.; et al., 89f:82073** *and* **Hamer, C. J.; et al., 89i:82086**

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Baxter, Rodney James Ramanujan's identities in statistical mechanics. **89h:82043**

— (*with* Choy, T. C.) Spontaneous magnetisations of the Ising model on the bathroom tile lattice. **89i:82082**

— (*with* Perk, Jacques H. H.; Au-Yang, H.) New solutions of the star-triangle relations for the chiral Potts model. **89g:82062**

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Bobeth, M. *see* **Aksenov, V. L.; et al., 89i:82081**

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Chayes, J. T. *see* **Aizenman, Michael; et al., 89f:82072**

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Chen, Liang^3 *see* **Mei, Changjiang, 89i:82090**

Chen, Xi Yao (*with* Pan, C. Y.) Numerical study of the q-color problem on a lattice. **89d:82136**

Chikyu, Tetsuhiko (*with* Suzuki, Masuo) A simple example of exactly solvable models with reentrant phenomena. **89g:82065**

Chou, Weiren *see* **Yokoi, Carlos S. O.; et al., 89a:82055**

Choy, T. C. (*with* Baxter, Rodney James) Spontaneous magnetizations of the Ising model on the Union Jack lattice. **89b:82113**

— *see also* **Baxter, Rodney James, 89i:82082**

Cicuta, G. M. (*with* Molinari, Luca; Montaldi, E.) Ising models on Feynman graphs. **89k:82091**

Cloitre, M. *see* **Allain, C., 89k:82086**

Constantinescu, F. The supersymmetric transfer matrix for linear chains with nondiagonal disorder. **89j:82068**

Costa, B. V. (*with* Silva, N. P.; Pires, A. S. T.) Statistical mechanics of a quasiperiodic one-dimensional magnetic chain. **89f:82076**

da Costa, F. A. (*with* de Oliveira, M. J.; Salinas, S. R.) Asymmetric Baxter phase in the symmetric Ashkin-Teller model. **89b:82104**

Crisanti, A. (*with* Sompolinsky, H.) Dynamics of spin systems with randomly asymmetric bonds: Ising spins and Glauber dynamics. **89d:82122**

Curado, Evaldo M. F. *see* **Hauser, Paulo R., 89i:82088**

De Coninck, Joël (*with* Messager, Alain; Miracle-Sole, S.; Ruiz, Jean) A study of perfect wetting for Potts and Blume-Capel models with correlation inequalities. **89m:82073**

Derrida, B. *see* **Golinelli, O., 89i:82085**

Dhar, Deepak *see* **Bose, Indrani; et al., 89c:82067**

Donskaya, I. S. Higher-order interactions in the linear Ising model. **89g:82066**

Dotsenko, Vl. S. 3D Ising model as a free fermion string theory: an approach to the thermal critical index calculation. **89g:82067**

— (*with* Polyakov, A. M.) Fermion representations for the 2D and 3D Ising models. **89m:82075**

— Off the critical point by perturbation: the Ising model spin-spin correlator. **89j:82069**

Drugowich de Felício, J. R. *see* **Martins, Márcio J., 89c:82074**

Ermilov, A. N. Ordering and phase transitions in the frozen Potts model. (Russian) (*see* **89g:82003**)

— *see also* **Bakaev, A. V.; et al., 89g:82063**

Ezawa, Hiroshi *see* **Koma, Tohru, 89i:82089**

Falicov, L. M. *see* **Reich, Ariel, 89a:82051**

Falk, H. Dynamical spin system: exact solution and mean recurrence time. **89i:82084**

Fernández, Roberto *see* **Aizenman, Michael, 89h:82041**

Fiedler-Ferrari, N. *see* **Prado, C. P. C., 89k:82101**

Fisher, Michael Ellis *see* **Singh, Rajiv R. P.; et al., 89k:82105**

Forgács, G. (*with* Privman, V.) Directed compact lattice animals: exact results. **89d:82123**

Forrester, P. J. Solvable isotherms for a two-component system of charged rods on a line. **89j:82070**

Fujiwara, Takeo (*with* Arai, Masao^2; Tokihiro, Tetsuji; Kohmoto, Mahito) Localized states and self-similar states of electrons on a two-dimensional Penrose lattice. **89d:82124**

Gardner, E. Multiconnected neural network models. **89a:82040**

Garrido, P. L. (*with* Labarta, Amilcar; Marro Borau, Joaquín) Stationary nonequilibrium states in the Ising model with locally competing temperatures. **89a:82041**

— (*with* Marro Borau, Joaquín) Ising models with anisotropic interactions: stationary nonequilibrium states with a nonuniform temperature profile. **89f:82077**

Gartenhaus, Solomon (*with* McCullough, W. Scott) Higher order corrections to the quadratic Ising lattice susceptibility at criticality. **89b:82105**

Giacomini, H. J. (*with* Riera, J. A.) Exact results for a random frustrated Ising model on the Kagomé lattice. **89d:82125**

— An exact result for the Kagomé lattice Ising model with magnetic field. **89b:82106**

— An exact functional relation for the partition function of a 2D Ising model with magnetic field. **89d:82126**

— *see also* **Azaria, P., 89m:82070**

Glasser, M. L. (*with* Privman, V.; Švrakić, N. M.) Temperley's triangular lattice compact cluster model: exact solution in terms of the q series. **89b:82107**

Golinelli, O. (*with* Derrida, B.) Effect of thermal noise and initial conditions in the dynamics of a mean-field ferromagnet. (French summary) **89i:82085**

Gõlzer, B. (*with* Holz, A.) Exact solutions to anisotropic SU($\mathcal{N} \geq 3$) chains. **89a:82042**

— A novel 15-vertex solution of the Sutherland equation. **89j:82071**

Gomez-Santos, G. (*with* Joannopoulos, J. D.) Application of spin-wave theory to the ground state of XY quantum Hamiltonians. **89b:82108**

Goulart Rosa, S., Jr. *see* **de Aguiar, F. S.; et al., 89a:82037** *and* **Martinez, A. S., 89h:82050**

Grimm, U. *see* **Alcaraz, Francisco C.; et al., 89b:82101**

Grove, L. C. *see* **Tracy, Craig A.; et al., 89b:82125**

Gruner-Bauer, P. (*with* Mertens, F. G.) Excitation spectrum of the Toda lattice for finite temperatures. **89d:82127**

Guha, A. *see* **Lim, H. A.; et al., 89a:82047**

Gutkin, Eugene Heisenberg-Ising spin chain and the nonlinear Schrödinger equation. **89g:82068**

Györgyi, Géza (*with* Satija, Indubala I.) Dimensional reduction and universal $f(\alpha)$ in magnetic chains. **89k:82092**

Gzyl, H. *see* **Kabbabe, L., 89d:82128**

Haldane, F. D. M. *see* **Arovas, Daniel P.; et al., 89c:82066** *and* **Vannimenus, J.; et al., 89m:82087**

Hamer, C. J. (*with* Quispel, G. R. W.; Batchelor, M. T.) Conformal anomaly and surface energy for Potts and Ashkin-Teller quantum chains. **89g:82069**

— (*with* Batchelor, M. T.) Some finite-size amplitudes and critical exponents for Potts and Ashkin-Teller quantum chains. **89a:82043**

— (*with* Batchelor, M. T.; Barber, Michael N.) Logarithmic corrections to finite-size scaling in the four-state Potts model. **89i:82086**

Hansel, D. (*with* Jolicoeur, T.; Maillard, J.-M.) Staggered lattice models. **89f:82078**

— (*with* Maillard, J.-M.) Series analysis of the q-state checkerboard Potts model. **89b:82109**

— (*with* Maillard, J.-M.) Symmetries of models with genus > 1. **89k:82093**

Hao, Bai Lin *see* **Ananthakrishna, G.; et al., 89f:82074**

Hattori, Kumiko *see* **Hattori, Tetsuya, 89i:82087**

Hattori, Tetsuya (*with* Hattori, Kumiko) POP approximation to the spectral dimension of dual three-dimensional Sierpiński carpets. **89i:82087**

Hauser, Paulo R. (*with* Curado, Evaldo M. F.) Potts ferromagnet: transformations and critical exponents in planar hierarchical lattices. **89i:82088**

Henkel, Malte (*with* Patkós, András) Conformal invariance and line defects in the two-dimensional Ising model. **89c:82068**

Herrmann, Hans J. *see* **da Silva, Luciano R.; et al., 89c:82076**

Hock, J. L. *see* **McQuistan, R. B., 89b:82114**

Hõglund, Thomas A one-dimensional model with phase transition. **89m:82076**

Holický, P. (*with* Kotecký, R.; Zahradník, M.) Rigid interfaces for lattice models at low temperatures. **89j:82072**

Holley, Richard (*with* Stroock, Daniel W.) Logarithmic Sobolev inequalities and stochastic Ising models. **89e:82013**

Holz, A. *see* **Gõlzer, B., 89a:82042**

Hou, Bo Yu *see* **Zhou, Yu Kui; et al., 89k:82110**

Hu, Jia Zhen *see* **Tang, Kun Fa, 89a:82053; 89b:82123; 89b:82124; 89i:82101** *and* Yao, Jian; **et al., 89k:82109**

Huckaby, Dale A. (*with* Shinmi, Masato; Belfi, Victor A.) Exact two-phase coexistence surface for a three-component solution on a Bethe lattice. **89k:82094**

Iglói, F. (*with* Zittartz, J.) Quantum Ising model with staggered interaction. **89b:82110**

Imbrie, John Z. (*with* Newman, C. M.) An intermediate phase with slow decay of correlations in one-dimensional $1/|x-y|^2$ percolation, Ising and Potts models. **89g:82070**

Inoue, Makoto^2 (*with* Suzuki, Masuo) The ST-transformation approach to analytic solutions of quantum systems. II. Transfer-matrix and Pfaffian methods. **89k:82095**

Iske, P. L. (*with* Caspers, W. J.) Exact ground states of one-dimensional valence-bond-solid Hamiltonians. **89f:82079**

Ito, Nobuyasu (*with* Suzuki, Masuo) Fractal configurations of the two- and three-dimensional Ising models at the critical point. **89a:82044**

Izyumov, Yu. A. (*with* Skryabin, Yu. N.) ★ Статистическая механика магнитоупорядоченных систем. (Russian) [Statistical mechanics of magneto-ordered systems] **89j:82073**

Janke, W. (*with* Kleinert, H.) Self-avoiding random loops versus Ising model in three dimensions. **89c:82069**

Janssen, Ted W. J. M. *see* **Slot, J. J. M., 89i:82099**

Jayaprakash, C. *see* **Vannimenus, J.; et al., 89m:82087**

Jędrzejek, C. *see* **Streszewski, M., 89d:82143**

Joannopoulos, J. D. *see* **Gomez-Santos, G., 89b:82108**

Johannesson, Henrik Universality classes of critical antiferromagnets. **89k:82096**

— Central charge for the integrable higher-spin XXZ model. **89m:82077**

Jolicoeur, T. *see* **Hansel, D.; et al., 89f:82078**

Jurkiewicz, Jerzy Władysław *see* **Burda, Z., 89k:82090**

Kabbabe, L. (*with* Gzyl, H.) Kinetic equation for Ising model in a convolutionless formalism. **89d:82128**

Kaburagi, Makoto *see* **Takasaki, Koichi; et al., 89g:82078**

Kamlesh *see* **Kumar, Deepak, 89a:82046**

Kaneyoshi, T. Contribution to the theory of mixed Ising spin systems. **89d:82129**

Kaufman, C. *see* **Srivastava, Niraj; et al., 89d:82142**

Kavalov, An. R. (*with* Sedrakyan, A. G.) Fermion representation of the three-dimensional Ising model. **89g:82071**

Kennedy, Tom Isotropic quantum antiferromagnets with valence-bond ground states. (*see* **89g:81002**)

Kerimov, A. A. Ground states of the Ising model with infinite radius of interaction. (Russian. English and Azerbaijani summaries) **89f:82080**

— Non-translation-invariant Gibbs states in the Ising model with long-range potential. (Russian. English and Azerbaijani summaries) **89f:82081**

— Interface sharpness in the Ising model with long-range interaction. **89j:82074**

Khatun, M. *see* **Barry, J. H.; et al., 89b:82102**

Kim, Doochul *see* **Pearce, Paul A., 89g:82075**

Kirillov, A. N. (*with* Smirnov, F. A.) Solution of some combinatorial problems arising in the calculation of correlators in exactly solvable models. (Russian. English summary) **89f:82082**

Kirkpatrick, S. *see* **Vannimenus, J.; et al., 89m:82087**

Kislinskiĭ, V. B. (*with* Yukalov, V. I.) Crossover between short- and long-range interactions in the one-dimensional Ising model. **89c:82070**

Kleinert, H. *see* **Janke, W., 89c:82069**

Klümper, A. (*with* Zittartz, J.) Eigenvalues of the eight-vertex model transfer matrix and the spectrum of the XYZ Hamiltonian. **89m:82078**

Ko, Lee-Fen Spin-spin correlation function in the two-dimensional Ising model with linear defects. I. $T < T_c$. **89m:82079a**

— Spin-spin correlation function in the two-dimensional Ising model with linear defects. II. $T > T_c$. **89m:82079b**

— Perturbation calculation for the eight-vertex model around the Ising point for $T \to T_c^-$. **89e:82014**

— Perturbation calculation for the eight-vertex model around the Ising point for $T \to T_c^+$. II. **89e:82015**

— Spin-spin correlation in the two-dimensional Ising model with linear defects and Fredholm equations. **89g:82072**

Kobayashi, S. I. *see* **Lee, Chahn, 89m:82082**

Kohmoto, Mahito *see* **Fujiwara, Takeo; et al., 89d:82124**

Koma, Tohru Thermal Bethe-ansatz method for the one-dimensional Heisenberg model. **89c:82071**

— (*with* Ezawa, Hiroshi) Completeness of the two-down-spin Bethe states in the one-dimensional Heisenberg model. **89i:82089**

Korepin, V. E. Exactly solvable spin models in quasicrystals. **89a:82045**

Kotecký, R. (*with* Miracle-Sole, S.) Roughening transition for the Ising model on a BCC lattice. A case in the theory of ground states. **89h:82045**

— *see also* **Holický, P.; et al., 89j:82072**

Koukiou, F. (*with* Petritis, D.; Zahradník, M.) Extension of the Pirogov-Sinaĭ theory to a class of quasiperiodic interactions. **89h:82047**

— (*with* Petritis, D.; Zahradník, M.) Low-temperature phase diagram for models with small quasiperiodic interactions. **89h:82046**

Krikos, C. *see* **Papatriantafillou, C.; et al., 89m:82084**

Kubo, Kenn Existence of long-range order in the XY model. **89d:82130**

Kuik, R. On a noncommutative approach to equilibrium states in the q-state Potts model. (*see* **89e:60005**)

Kumar, Deepak (*with* Kamlesh) Mode condensation in a hierarchical system. **89a:82046**

Kuniba, A. (*with* Yajima, Tetsu) Local state probabilities for an infinite sequence of solvable lattice models. **89f:82083**

— (*with* Yajima, Tetsu) Local state probabilities for solvable restricted solid-on-solid models: A_n, D_n, $D_n^{(1)}$, and $A_n^{(1)}$. **89m:82080**

Kunz, Hervé (*with* Wu, F. Y.) Exact results for an O(n) model in two dimensions. **89m:82081**

Kupiainen, A. *see* **Bricmont, J., 89i:82083**

Kurak, V. *see* **Onody, R. N., 89k:82100**

Kurbatov, A. M. *see* **Bakaev, A. V.; et al., 89g:82063**

Kwaśniewski, A. K. Algebraic structure of Potts models. **89c:82072**

— Calculation of the free energy for a chain in an arbitrary magnetic field. **89c:82073**

— Algebraic properties of the 3-state vector Potts model. **89b:82111**

Laanait, L. Discontinuity of surface tensions in the q-state Potts model. **89d:82131**

Labarta, Amilcar *see* **Garrido, P. L.; et al., 89a:82041**

Lee, Chahn (*with* Kobayashi, S. I.) Exact dynamical behavior near the critical point in the transverse Ising model. **89m:82082**

Lee, I-Hsiu (*with* Shrock, Robert E.) High-temperature series analysis of an O(2)-symmetric spin model with discretely valued interaction on 2D lattices. **89d:82132**

Lim, H. A. (*with* Guha, A.; Shapir, Y.) Nonperturbative tricritical exponents of trails. I. Exact enumeration on a triangular lattice. **89a:82047**

Lin, K'ê Ying Spontaneous magnetization of the Ising model on a 4-8 lattice. **89f:82084**

— (*with* Wang, Sun Chong) Spontaneous magnetization of the Ising model on a Union Jack lattice. **89b:82112**

— Ising model on a checkerboard lattice in a magnetic field $H=\frac{1}{2}i\pi kT$. **89d:82133**

— (*with* Ma, Shang-keng) Spontaneous magnetization of the Ising model on a layered square lattice. **89d:82134**

— Spontaneous magnetization of the Ising model on a 4-8 lattice. **89e:82016**

— *see also* **Wu, F. Y., 89b:82126a; 89b:82126b** *and* **89d:82147**

Lipkin, M. D. Ground states of a frustrated Ising model with one-, two- and three-body interactions. **89f:82085**

Liu, Zhong Zhu A coarse graining for the Ising model on two-dimensional disordered lattice. **89k:82097**

— Behavior of the Ising model for 2-D topological disordered lattice near the fixed points. **89k:82098**

Loginov, A. A. (*with* Popov, Viktor Aleksandrovich) The Adler principle for antiferromagnetic crystals. (Russian. English summary) **89j:82075**

Lucena, Liacir S. *see* **da Silva, Luciano R.; et al., 89c:82076**

Ma, Michael *see* **Zhang, Lizeng, 89a:82057**

Ma, Shang-keng *see* **Lin, K'ê Ying, 89d:82134**

Maillard, J.-M. *see* **Hansel, D., 89b:82109; 89f:82078** *and* **89k:82093**

Makhan'kov, A. V. (*with* Makhan'kov, V. G.) Classical analogues of XXZ Heisenberg model. (*see* **89g:82003**)

Makhan'kov, V. G. *see* **Makhan'kov, A. V., (89g:82003)**

Mamatov, Sh. S. Absence of two-particle connected states of the transfer matrix for a certain class of two-dimensional Gibbs fields. (Russian) **89h:82048**

Marro Borau, Joaquín *see* **Garrido, P. L.; et al., 89a:82041** *and* **89f:82077**

Marston, J. Brad U(1) gauge theory of the Heisenberg antiferromagnet. **89h:82049**

Martin, P. P. Exact finite lattice results for Z_n symmetric spin models. **89m:82083**

Martinez, A. S. (*with* Goulart Rosa, S., Jr.) Pair-correlation function of the Potts model on the Cayley tree. **89h:82050**

Martins, Márcio J. (*with* Drugowich de Felício, J. R.) Phase diagram of the N-colour Ashkin-Teller model. **89c:82074**

— *see also* **Alcaraz, Francisco C., 89m:82069**

Mattis, Daniel C. The q-color problem on a lattice. **89d:82135**

Mazel', A. E. The Ising model on a face-centered cubic lattice at low temperatures. **89f:82086**

McCoy, Barry M. *see* **Au-Yang, H.; et al., 89g:82061**

McCullough, W. Scott *see* **Gartenhaus, Solomon, 89b:82105**

McQuistan, R. B. (*with* Hock, J. L.) The shift operator matrix method applied to the two-dimensional nearest and next nearest neighbor problem. **89b:82114**

Mei, Changjiang (*with* Chen, Liang[3]) Study of the interaction between two electrons in the single band Hubbard model. **89i:82090**

Mertens, F. G. *see* **Gruner-Bauer, P., 89d:82127**

Messager, Alain *see* **De Coninck, Joël; et al., 89m:82073**

Meyer, Horst *see* **Adler, Joan; et al., 89a:82036**

Miękisz, Jacek Classical lattice gas model with a unique nondegenerate but unstable periodic ground state configuration. **89a:82048**

— Low-temperature equilibrium states of ferromagnetic lattice systems. **89f:82087**

Milošević, S. *see* **Stošić, T.; et al., 89b:82122**

Miracle-Sole, S. *see* **Kotecký, R., 89h:82045** *and* **De Coninck, Joël; et al., 89m:82073**

Miwa, Tetsuji Integrable lattice models and branching coefficients. **89h:82051**

Molinari, Luca *see* **Cicuta, G. M.; et al., 89k:82091**

Monroe, James L. The coherent anomaly method applied to a variety of Ising models. **89i:82091**

Montaldi, E. *see* **Cicuta, G. M.; et al., 89k:82091**

Morita, Tohru Dimer problem solved by Vdovichenko's method. **89a:82049a**

— Erratum: "Dimer problem solved by Vdovichenko's method". **89a:82049b**

— The ground state of the Ising model of spin 1. **89i:82092**

Müller, Gerhard *see* **Srivastava, Niraj; et al., 89d:82142**

Murthy, Ganpathy N. Critical behavior of the N-component Ashkin-Teller model with bond impurities. **89b:82115**

Nachtergaele, B. (*with* Slegers, Leo) Construction of equilibrium states for one-dimensional classical lattice systems. (Italian and Russian summaries) **89i:82093**

— (*with* Slegers, Leo) The ground state and its entropy for a class of one-dimensional classical lattice systems. **89i:82094**

Nakanishi, Hiizu *see* **Nishimori, Hidetoshi, 89b:82116**

Newman, C. M. *see* **Aizenman, Michael; et al., 89f:82072; Imbrie, John Z., 89g:82070** *and* **Abraham, D. B., 89m:82068**

Newman, M. F. *see* **Tracy, Craig A.; et al., 89b:82125**

den Nijs, Marcel P. M. *see* **Park, Hyunggyu, 89d:82139**

Nishimori, Hidetoshi (*with* Okamoto, Kiyomi; Yokozawa, Masayuki) Competition between the Néel and the effective singlet states in spin-$\frac{1}{2}$ alternating Heisenberg-Ising antiferromagnet in one dimension. **89a:82050**

— (*with* Nakanishi, Hiizu) Ground state of quantum spin systems on the triangular lattice. **89b:82116**

— *see also* **Ozeki, Yukiyasu, 89d:82138**

Novotny, M. A. Equivalence of transfer matrices. **89k:82099**

Okamoto, Kiyomi Longitudinal spin correlation in spin-1/2 dimerized XY chain. **89i:82095**

— *see also* **Nishimori, Hidetoshi; et al., 89a:82050**

de Oliveira, M. J. *see* **da Costa, F. A.; et al., 89b:82104**

Olivieri, Enzo On a cluster expansion for lattice spin systems: a finite-size condition for the convergence. **89i:82096**

Olmedilla, Eugenio (*with* Wadati, Miki) Conserved quantities for spin models and fermion models. **89f:82088**

— (*with* Wadati, Miki) Conserved quantities of the one-dimensional Hubbard model. **89g:82073**

Onody, R. N. (*with* Kurak, V.) Equivalences between a dimer, a vertex, and a spin model. **89k:82100**

Orland, Peter World-sheet action for the three-dimensional Ising model. **89b:82117**

Owczarek, A. L. (*with* Baxter, Rodney James) A class of interaction-round-a-face models and its equivalence with an ice-type model. **89d:82137**

Ozeki, Yukiyasu (*with* Nishimori, Hidetoshi) Distribution of Yang-Lee zeros of the $\pm J$ Ising model. **89d:82138**

Palmer, R. G. *see* **Adler, Joan; et al., 89a:82036**

Pan, C. Y. *see* **Chen, Xi Yao, 89d:82136**

Panagopoulos, P. *see* **Papatriantafillou, C.; et al., 89m:82084**

Papanicolaou, N. Complete integrability for a discrete Heisenberg chain. **89b:82118**

Papatriantafillou, C. (*with* Paraskevaidis, C. E.; Krikos, C.; Panagopoulos, P.) Exact thermodynamic behavior of a generalized spin-isospin Ising system on the Bethe lattice. **89m:82084**

Paraskevaidis, C. E. *see* **Papatriantafillou, C.; et al., 89m:82084**

Park, Hyunggyu (*with* den Nijs, Marcel P. M.) Universal finite-size-scaling amplitudes of the Potts model on a torus. **89d:82139**

Patkós, András *see* **Henkel, Malte, 89c:82068**

Pearce, Paul A. Inversion identities for self-dual Potts and Ashkin-Teller models. **89g:82074**

— (*with* Kim, Doochul) Continuously varying exponents in magnetic hard squares. **89g:82075**

— (*with* Seaton, Katherine A.) A classical theory of hard squares. **89j:82076**

— (*with* Seaton, Katherine A.) Solvable hierarchy of cyclic solid-on-solid lattice models. **89g:82076**

— *see also* **Batchelor, M. T.; et al., 89b:82103**

Pękalski, Andrzej Phase diagrams of two inhomogeneous Ising models on the triangular lattice. **89j:82077**

Penrose, O. *see* **Pfister, Charles-Ed., 89d:82140**

Perk, Jacques H. H. *see* **Au-Yang, H.; et al., 89g:82061** *and* **Baxter, Rodney James; et al., 89g:82062**

Peschel, I. *see* **Truong, T. T., 89j:82080**

Petritis, D. *see* **Koukiou, F.; et al., 89h:82046** *and* **89h:82047**

Pfister, Charles-Ed. On the ergodic decomposition of Gibbs random fields for ferromagnetic abelian lattice models. **89f:82089**

— (*with* Penrose, O.) Analyticity properties of the surface free energy of the Ising model. **89d:82140**

Pires, A. S. T. *see* **Costa, B. V.; et al., 89f:82076**

Plakida, N. M. *see* **Aksenov, V. L.; et al., 89i:82081**

Plascak, J. A. *see* **Verona de Resende, H. F.; et al., 89d:82145**

Plechko, V. N. A fermion functional integral in two-dimensional Ising models on decorated lattices. (Russian) **89m:82085**

Polyakov, A. M. *see* **Dotsenko, Vl. S., 89m:82075**

Popov, Viktor Aleksandrovich *see* **Loginov, A. A., 89j:82075**

Prado, C. P. C. (*with* Fiedler-Ferrari, N.) Dimensions of a strange attractor associated with the Ising model with competing interactions. **89k:82101**

Privman, V. (*with* Švrakić, N. M.) Transfer-matrix spectrum for systems with interfaces. **89k:82102**

— *see also* **Glasser, M. L.; et al., 89b:82107** *and* **Forgács, G., 89d:82123**

Pu, Fu Ke (*with* Zhou, Yu Kui) Exact solution of a multicomponent coupled spin model. **89g:82077**

Pustyl'nikov, L. D. A ground state in a model of Frenkel' and Kontorova. **89i:82097**

Quispel, G. R. W. The anisotropic Heisenberg spin chain and the derivative nonlinear Schrödinger equation. **89b:82119**

— *see also* **Alcaraz, Francisco C.; et al., 89b:82100** *and* **Hamer, C. J.; et al., 89g:82069**

Radosz, Andrzej A pseudo-Goldstone mode in the exactly solvable model of phase transitions. **89c:82075**

Rammal, R. *see* **Angles d'Auriac, J. C., 89h:82042**

Ray, Purusattam *see* **Bose, Indrani; et al., 89c:82067**

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Reinicke, P. Finite-size scaling functions and conformal invariance. **89b:82120**

Reshetikhin, N. Yu. The algebraic Bethe ansatz for SO(N)-invariant transfer matrices. (Russian. English summary) **89k:82103**
Richey, Matthew P. (*with* Tracy, Craig A.) Equation of state and isothermal compressibility for the hard hexagon model in the disordered regime. **89b:82121**
Riera, J. A. *see* **Giacomini, H. J., 89d:82125**
Rittenberg, V. *see* **Alcaraz, Francisco C.; et al., 89b:82101**
Ruiz, Jean *see* **De Coninck, Joël; et al., 89m:82073**
Ruján, Pál A symbolic algorithm for finding exactly soluble statistical mechanical models. **89h:82052**
Sá Barreto, F. C. *see* **Verona de Resende, H. F.; et al., 89d:82145**
Saleur, H. Correlation functions of the critical Ashkin-Teller model on a torus. **89h:82053**
Salinas, S. R. *see* **da Costa, F. A.; et al., 89b:82104**
Šamaj, L. An iterative approach to Ising lattice models: approximate expressions for the sum of δ-functions investigated. **89f:82090**
— Diagrammatic decompositions on lattice for correlation functions of Ising spin models by iterative method. **89f:82091**
— An analytic approach to Ising model with spin $\frac{1}{2}$ and spin 1. **89f:82092**
— An improved theory of higher-order correlations for an Ising model with general spin. **89h:82054**
— Inhomogeneous Ising model on the Bethe lattice. **89i:82098**
Satija, Indubala I. *see* **Györgyi, Géza, 89k:82092**
Schneider, Toni *see* **Würtz, D.; et al., 89g:82083**
Schoenmaker, B. Analysis of the Migdal transformation for models with planar spins on a d-dimensional lattice. **89f:82093**
Schonmann, R. H. On two correlation inequalities for Potts models. **89m:82074**
Schotte, K. D. *see* **Wolf, M., 89g:82082**
Seaton, Katherine A. *see* **Pearce, Paul A., 89g:82076** *and* **89j:82076**
Sedrakyan, A. G. *see* **Kavalov, An. R., 89g:82071**
Selke, Walter The ANNNI model-theoretical analysis and experimental application. **89j:82078**
Shadura, V. N. *see* **Bugriĭ, A. Ĭ., 89k:82089**
Shankar, Ramamunti *see* **Singh, Rajiv R. P.; et al., 89k:82105**
Shapir, Y. *see* **Lim, H. A.; et al., 89a·82047**
Shcherbina, M. V. The spherical limit of n-vector correlations. **89k:82104**
Shinmi, Masato *see* **Huckaby, Dale A.; et al., 89k:82094**
Shlosman, S. B. Estimates for the Ursell functions for fields with attraction. (Russian) **89f:82094**
Shneĭberg, I. Ya. *see* **Bovin, V. P., 89h:82044**
Shraiman, Boris I. (*with* Siggia, Eric D.) Mobile vacancies in a quantum Heisenberg antiferromagnet. **89d:82141**
Shrock, Robert E. *see* **Lee, I-Hsiu, 89d:82132**
Siggia, Eric D. *see* **Shraiman, Boris I., 89d:82141**
Silva, J. M. *see* **da Silva, N. R.**, (Not in MR)
da Silva, Luciano R. (*with* Herrmann, Hans J.; Lucena, Liacir S.) Simulations of mixtures of two Boolean cellular automata rules. **89c:82076**
Silva, N. P. *see* **Costa, B. V.; et al., 89f:82076**
da Silva, N. R. (*with* Silva, J. M.) Dynamics of the Ising model in a Cayley tree. (Not in MR)
Singh, Rajiv R. P. (*with* Fisher, Michael Ellis; Shankar, Ramamunti) Spin-$\frac{1}{2}$ antiferromagnetic XXZ chain: new results and insights. **89k:82105**
Sklyanin, E. K. The Poisson structure of the classical XXZ-chain. (Russian. English summary) **89a:82052**
Skryabin, Yu. N. *see* **Izyumov, Yu. A., 89j:82073**
Slawny, Joseph Low-temperature properties of classical lattice systems: phase transitions and phase diagrams. **89m:82086**
Slegers, Leo The residual entropy for a class of one-dimensional classical lattice models. **89j:82079**
— *see also* **Nachtergaele, B., 89i:82093** *and* **89i:82094**
Slot, J. J. M. (*with* Janssen, Ted W. J. M.) Dynamics of kinks in modulated crystals. **89i:82099**
Sluckin, T. J. A Potts model for the herringbone transition. **89c:82077**
Smirnov, F. A. *see* **Kirillov, A. N., 89f:82082**
Smith, Edgar Roderick A mean spherical model with Coulomb interactions. **89h:82055**
Soerensen, M. P. *see* **Würtz, D.; et al., 89g:82083**
Sompolinsky, H. *see* **Crisanti, A., 89d:82122**
Southern, B. W. *see* **Ashraff, J. A., 89k:82087**
Spronken, G. (*with* Avignon, M.) The one-dimensional dimerised spin-$\frac{1}{2}$ XY chain with arbitrary boundary conditions and related unitary and nonunitary models. **89k:82106**
Srivastava, Niraj (*with* Kaufman, C.; Müller, Gerhard; Weber, René Willi; Thomas, Harry) Integrable and nonintegrable classical spin clusters. Trajectories and geometric structure of invariants. **89d:82142**
Stanley, H. E. Role of fluctuations in fluid mechanics and dendritic solidification. (*see* **89b:58064**)
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Stella, A. L. (*with* Vanderzande, C.) Scaling and fractal dimension of Ising clusters at the $d = 2$ critical point. **89k:82107**
Stephenson, John Partition function zeros for the two-dimensional Ising model. IV, V. **89h:82056**
Stošić, B. *see* **Stošić, T.; et al., 89b:82122**
Stošić, T. (*with* Stošić, B.; Milošević, S.; Stanley, H. E.) Crossover from fractal lattice to Euclidean lattice for the residual entropy of an Ising antiferromagnet in maximum critical field H_c. **89b:82122**
Streszewski, M. (*with* Jędrzejek, C.) Exact solution of the hierarchy of Green functions for the two-site Hubbard model. **89d:82143**
Stroock, Daniel W. *see* **Holley, Richard, 89e:82013**
Sutherland, Bill Exact solution of a lattice band problem related to an exactly soluble many-body problem: the missing-states problem. **89i:82100**
Suzuki, Junji Simple excitations in the nested Bethe-ansatz model. **89k:82108**
Suzuki, Masuo *see* **Ito, Nobuyasu, 89a:82044; Chikyu, Tetsuhiko, 89g:82065** *and* **Inoue, Makoto^2, 89k:82095**
Švrakić, N. M. *see* **Glasser, M. L.; et al., 89b:82107** *and* **Privman, V., 89k:82102**
Szépfalusy, P. *see* **Bene, J., 89d:82121**
Takasaki, Koichi (*with* Tonegawa, Takashi; Kaburagi, Makoto) Exact ground states of the lattice gas model with two kinds of particles and the finite-field three-state Potts model on the square lattice. **89g:82078**
Tanaka, Tomoyasu *see* **Barry, J. H.; et al., 89b:82102**
Tang, Jian Gang *see* **Zhou, Huan Qiang, 89i:82103**
Tang, Kun Fa (*with* Hu, Jia Zhen) A disorder solution for a generalised mixed-spin model. **89b:82123**
— (*with* Hu, Jia Zhen) A renormalization group approach for Ising spin systems. (Chinese. English summary) **89b:82124**
— (*with* Hu, Jia Zhen) Exact solution of a generalized mixed spin model on a disordered domain. (Chinese. English summary) **89i:82101**
— (*with* Hu, Jia Zhen) Critical properties of the anisotropic Ising model on three-node hierarchical lattices. **89a:82053**
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Tang, Lei-Han *see* **Yokoi, Carlos S. O.; et al., 89a:82055**
Tang, Shuang *see* **Au-Yang, H.; et al., 89g:82061**
Thomas, Harry *see* **Srivastava, Niraj; et al., 89d:82142**
Tokihiro, Tetsuji *see* **Fujiwara, Takeo; et al., 89d:82124**
Tonegawa, Takashi *see* **Takasaki, Koichi; et al., 89g:82078**
Tracy, Craig A. (*with* Grove, L. C.; Newman, M. F.) Modular properties of the hard hexagon model. **89b:82125**
— Universality classes of some aperiodic Ising models. **89d:82144**
— Universality class of a Fibonacci Ising model. **89g:82079**
— *see also* **Richey, Matthew P., 89b:82121**
Truong, T. T. (*with* Peschel, I.) Diagonalisation of corner transfer matrix by orthogonal polynomials. **89j:82080**
Tsunetsugu, Hirokazu (*with* Ueda, Kazuo) Ising spin system on the Fibonacci chain. **89g:82080**
Ueda, Kazuo *see* **Tsunetsugu, Hirokazu, 89g:82080**
Upton, P. J. *see* **Abraham, D. B., 89c:82065**
Vanderzande, C. *see* **Stella, A. L., 89k:82107**
Vannimenus, J. (*with* Kirkpatrick, S.; Haldane, F. D. M.; Jayaprakash, C.) Ground-state morphology of random frustrated XY systems. **89m:82087**
Vause, Chester A. *see* **Wilson, William G., 89a:82054**
de Vega, H. J. Finite-size corrections for nested Bethe ansatz models and conformal invariance. **89g:82081**
Verbaarschot, J. J. M. Graded symmetry and Anderson localization on the Bethe lattice for time-reversal invariant systems. **89f:82095**
Verona de Resende, H. F. (*with* Sá Barreto, F. C.; Plascak, J. A.) Renormalization group treatment of the mixed-spin system in d-dimensional lattices. **89d:82145**
Villain, J. Random fields in the Ising model. (*see* **89e:60005**)
Wadati, Miki *see* **Olmedilla, Eugenio, 89f:82088** *and* **89g:82073**
Wang, Sun Chong *see* **Lin, K'ê Ying, 89b:82112**
Warstat, Volker Absence of phase transition in general one-dimensional hard rod systems with long range interactions. **89d:82146**
Weber, René Willi *see* **Srivastava, Niraj; et al., 89d:82142**
Wen, Xiao-Gang (*with* Zee, A.) Spin waves and topological terms in the mean-field theory of two-dimensional ferromagnets and antiferromagnets. **89i:82102**
Wilson, William G. (*with* Vause, Chester A.) Evidence for universality of the Potts model on the two-dimensional Penrose lattice. **89a:82054**
Wolf, M. (*with* Schotte, K. D.) Ising model with competing next-nearest-neighbour interactions on the Kagomé lattice. **89g:82082**
Wu, F. Y. (*with* Lin, K'ê Ying) Ising model on the union jack lattice as a free fermion model. **89b:82126a**
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Wu, Xue Ning (*with* Wu, F. Y.) Blume-Emery-Griffiths model on the honeycomb lattice. **89b:82127**
Würtz, D. (*with* Soerensen, M. P.; Schneider, Toni) Quasiperiodic Krönig-Penney model on a Fibonacci superlattice. **89g:82083**
Yajima, Tetsu *see* **Kuniba, A., 89f:82083** *and* **89m:82080**
Yamazaki, Susumu On linear and exponential type nonlinear lattices. **89h:82057**
Yan, Mu Lin *see* **Au-Yang, H.; et al., 89g:82061** *and* **Zhou, Yu Kui; et al., 89k:82110**
Yang, Zhan Ru Family of diamond-type hierarchical lattices. **89d:82148**
Yao, Jian (*with* Tang, Kun Fa; Hu, Jia Zhen) A disorder solution for a generalised mixed-spin model on anisotropic Kagomé lattices. **89k:82109**
Yokoi, Carlos S. O. (*with* Tang, Lei-Han; Chou, Weiren) Ground state of the one-dimensional chiral XY model in a field. **89a:82055**
Yokozawa, Masayuki *see* **Nishimori, Hidetoshi; et al., 89a:82050**
Yukalov, V. I. *see* **Kislinskiĭ, V. B., 89c:82070**
Zahradník, M. Analyticity of low-temperature phase diagrams of lattice spin models. **89f:82096**
— *see also* **Koukiou, F.; et al., 89h:82046; 89h:82047** *and* **Holický, P.; et al., 89j:82072**
Zaslavskiĭ, O. B. The thermodynamics of the one-dimensional isotropic Heisenberg model with allowance for quantum corrections. (Russian. English summary) **89a:82056**
Zee, A. *see* **Wen, Xiao-Gang, 89i:82102**
Zhang, Lizeng (*with* Ma, Michael) Destruction of superfluidity by disorder in one dimension. **89a:82057**
Zhou, Huan Qiang (*with* Tang, Jian Gang) Further results for infinite conservation laws in the one-dimensional Hubbard model. **89i:82103**
Zhou, Yu Kui (*with* Yan, Mu Lin; Hou, Bo Yu) Exact solution of the $Z_n \times Z_n$ symmetric generalisation of Baxter's eight-vertex model. **89k:82110**
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Zittartz, J. *see* **Iglói, F., 89b:82110** *and* **Klümper, A., 89m:82078**

Items with secondary classifications in 82A68

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Andrews, G. E. *see* **Forrester, P. J., 89b:82092**
(Arcuri, R.) *see* **Olive, D. I., 89c:17027**
Aubry, Serge *see* **Axel, Françoise, 89a:82024**
Axel, Françoise (*with* Aubry, Serge) Polarisation and transition by breaking of analyticity in a one-dimensional model for incommensurate structures in an electric field. **89a:82024**
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Brandt, Achi *see* **Kandel, Daniel; et al., 89b:82007**
Brankov, I. G. (*with* Danchev, D. M.) On the limit Gibbs states of the spherical model. **89c:82006**
Bray, A. J. *see* **Rodgers, G. J., 89h:82008**
Bricmont, J. (*with* Kupiainen, A.) Phase transition in the 3d random field Ising model. **89h:82007**
Brihaye, Y. (*with* Kosiński, P.) Some results for Grassmannian models on a lattice. **89j:81150**
Capel, H. W. *see* **Elezović-Hadžić, S.; et al., 89f:82039**
Cappelli, A. (*with* Itzykson, C.; Zuber, J.-B.) The A-D-E classification of minimal and $A_1^{(1)}$ conformal invariant theories. **89b:81178**
Cardy, John L. *see* **Ludwig, Andreas W. W., 89b:82027**
Casari, Adolfo *see* **Barahona, Francisco, 89d:82004**
Chayes, J. T. (*with* Chayes, L.; Schonmann, R. H.) Exponential decay of connectivities in the two-dimensional Ising model. **89k:82008**
Chayes, L. *see* **Chayes, J. T.; et al., 89k:82008**
Chen, Xi Yao (*with* Pan, C. Y.) Finite temperature entropy of the antiferromagnetic Potts model. **89k:82082**
— *see also* **Pan, C. Y., 89k:82083**
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Coolen, A. C. C. (*with* Ruijgrok, Th. W.) Image evolution in Hopfield networks. **89j:92026**
Danchev, D. M. *see* **Brankov, I. G., 89c:82006**
Daniell, G. J. *see* **Barnes, T., 89d:82006**
Dash, P. C. Lattice solitons and nonlinear diatomic models. **89i:70021**
Decker, Karsten (*with* Hasenfratz, Anna; Hasenfratz, Peter) Singular renormalization group transformations and first order phase transitions. II. Monte Carlo renormalization group results. **89g:82022b**
Derrida, B. *see* **Neumann, Avidan U.; et al., 89i:82072** *and* **Barber, Michael N., 89j:82017**
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Dinaburg, E. I. (*with* Sinai, Ya. G.) Contour models with interaction and their applications. **89k:82029**
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— A new approach to the analysis of Gibbs perturbations of Gaussian fields. **89m:60253**
Domany, Eytan *see* **Kandel, Daniel; et al., 89b:82007**
(Domb, C.) *see* **Phase transitions and critical phenomena, 89g:82024**
(Doolen, Gary D.) *see* **Hasslacher, Brosl, (89m:01133a)**
Durhuus, Bergfinnur *see* **Ambjørn, Jan; et al., 89f:82040**
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Eisele, Th. (*with* Ellis, Richard S.) Multiple phase transitions in the generalized Curie-Weiss model. **89k:82030**
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Ellis, Richard S. *see* **Eisele, Th., 89k:82030**
van Enter, Aernout C. D. (*with* van Hemmen, J. L.; Pospiech, C.) Mean-field theory of random-site q-state Potts models. **89e:82004**
Essam, J. W. *see* **de Magalhães, A. C. N., 89f:82044**
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(Faddeev, L. D.) *see* **Gaudin, Michel, 89c:82001**
Fernández, Roberto *see* **Aizenman, Michael; et al., 89f:82013**
Fonk, Y. (*with* Hilhorst, H.) Ground-state and quenched-state properties of a one-dimensional interacting lattice gas in a random potential. **89f:82071**
Forgács, G. (*with* Luck, J. M.; Nieuwenhuizen, Th. M.; Orland, H.) Exact critical behavior of two-dimensional wetting problems with quenched disorder. **89i:82068**
Forrester, P. J. (*with* Andrews, G. E.) Height probabilities in solid-on-solid models. II. **89b:82092**
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(Fu, Castor) *see* **Hasslacher, Brosl, (89m:01133a)**
Gardner, E. The space of interactions in neural network models. **89g:92016**
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Gervais, Jean-Loup *see* **Bilal, Adel, 89e:81137**
(Gomes, J. F.) *see* **Olive, D. I., 89c:17027**
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Graves-Morris, P. R. The critical index of the magnetic susceptibility of 3D Ising models. **89d:82039**
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Guo, Bo Ling *see* **Zhou, Yu Lin, 89h:35323**
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Hamer, C. J. *see* **Allton, C. R., 89g:82020**
Hasenfratz, Anna (*with* Hasenfratz, Peter) Singular renormalization group transformations and first order phase transitions. I. **89g:82022a**
— *see also* **Decker, Karsten; et al., 89g:82022b**
Hasenfratz, Peter *see* **Hasenfratz, Anna, 89g:82022a** *and* **Decker, Karsten; et al., 89g:82022b**
Hasslacher, Brosl Discrete fluids. (*see* **89m:01133a**)
Hattori, Kumiko (*with* Hattori, Tetsuya; Watanabe, Hiroshi^2) Gaussian field theories on general networks and the spectral dimensions. **89k:81118**
Hattori, Tetsuya *see* **Hattori, Kumiko; et al., 89k:81118**
Heermann, Dieter W. *see* **Binder, K., 89i:82002** *and* **Desai, Rashmi C.; et al., 89k:82004**
van Hemmen, J. L. *see* **van Enter, Aernout C. D.; et al., 89e:82004**
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Hilhorst, H. *see* **Fonk, Y., 89f:82071**
Homma, Shigeo *see* **Takeno, S.; et al., 89d:58114**
Horn, David (*with* Weyers, J.) Hypercubic structures in orthogonal Hopfield models. **89c:82056**
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Hronek, J. Spinless strong-coupling solitons in a discrete Peierls model. **89h:81273**
Hu, Jia Zhen *see* **Tang, Kun Fa, 89c:82019**
Inoue, Makoto^2 (*with* Suzuki, Masuo) On the convergence of the Trotter-like formula and the finite-Trotter-number scaling law in the transverse Ising chain. **89k:81119**
Itzykson, C. *see* **Cappelli, A.; et al., 89b:81178**
Izergin, A. G. (*with* Korepin, V. E.; Slavnov, N. A.) Temperature correlation functions of the Heisenberg antiferromagnet. (Russian. English summary) **89b:82022**
Izuyama, Takeo *see* **Suzuki, Junji, 89d:82095**
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Jimbo, Michio (*with* Miwa, Tetsuji; Okado, Masato) Solvable lattice models whose states are dominant integral weights of $A_{n-1}^{(1)}$. **89e:82017**
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Jónsson, Thórdur *see* **Ambjørn, Jan; et al., 89f:82040**
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Kandel, Daniel Analysis of a dynamic renormalization-group technique. **89d:82041**
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Kanter, Ido Potts-glass models of neural networks. **89c:92023**
Katsura, Shigetoshi *see* **Sasaki, Mitsuhiro, 89m:82058**
Kennedy, Tom *see* **Affleck, Ian; et al., 89d:82025**
Kisoda, K. *see* **Takeno, S.; et al., 89d:58114**

Klein, David (*with* Yang, Wei-Shih) Phase transition for a one-dimensional lattice gas with hard core. **89k:82033**

Knobloch, Edgar *see* **Silber, Mary, 89c:76064**

Knops, H. J. F. *see* **Thijssen, J. M., 89h:82009**

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Korshunov, S. E. (*with* Uĭmin, G. V.) Exact solutions in the two-dimensional wetting problem. **89k:82034**

Kosiński, P. *see* **Brihaye, Y., 89j:81150**

Kostov, Ivan (*with* Krzywicki, A.) On the entropy of random surfaces with arbitrary genus. **89a:81104**

Kozlovskiĭ, M. P. The domain of applicability of renormalization group relations in the description of second-order phase transition. (Russian. English summary) **89f:82021**

Krzywicki, A. *see* **Kostov, Ivan, 89a:81104**

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(Kulish, P. P.) *see* **Gaudin, Michel, 89c:82001**

Kupiainen, A. *see* **Bricmont, J., 89h:82007**

Kwaśniewski, A. K. Clifford and Grassmann like algebras. **89c:15034**

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Langeveld, W. G. J. *see* **Horn, David; et al., 89j:81005**

Lebowitz, Joel L. *see* **Wang, Jian-Sheng, 89m:82022** *and* **Phase transitions and critical phenomena, 89g:82024**

Lieb, Elliott H. *see* **Affleck, Ian; et al., 89d:82025**

Lin, K'ê Ying (*with* Wang, Sun Chong) Spontaneous magnetization of the Ising model on the Union Jack and 4-6 lattices. **89d:82117**

Lindström, Bernt *see* **Rosengren, Anders, 89c:82062**

Lipowsky, Reinhard *see* **Gelfand, Martin P., 89b:82026**

Loh, Eugene, Jr. *see* **Kandel, Daniel; et al., 89b:82007**

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Luck, J. M. *see* **Forgács, G.; et al., 89i:82068**

Ludwig, Andreas W. W. (*with* Cardy, John L.) Perturbative evaluation of the conformal anomaly at new critical points with applications to random systems. **89b:82027**

— Critical behavior of the two-dimensional random q-state Potts model by expansion in $(q-2)$. **89f:82022**

de Magalhães, A. C. N. (*with* Essam, J. W.) The Potts model and flows. III. Standard and subgraph break-collapse methods. **89f:82044**

Maĭer, I. O. Borel summation of divergent series in quantum field theory, and Wynn's ε-algorithm. **89f:81121**

Malyshev, V. A. *see* **Aizenstadt, V. V., 89c:82005**

Marchetti, Pieralberto *see* **Fröhlich, Jürg, 89a:81102**

Martins, Márcio J. *see* **Alcaraz, Francisco C., 89e:82003**

McCoy, Barry M. (*with* Perk, Jacques H. H.) Relation of conformal field theory and deformation theory for the Ising model. **89b:81206**

Mendès France, M. Some applications of the theory of automata. **89k:11062**

Milošević, S. *see* **Elezović-Hadžić, S.; et al., 89f:82039**

Miwa, Tetsuji *see* **Jimbo, Michio; et al., 89e:82017** *and* **89j:17018**

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Mottishaw, P. *see* **Dewar, Roderick C., 89j:82059**

Müller, V. F. (*with* Schiemann, J.) Convergence of Migdal-Kadanoff iterations: a simple and general proof. **89m:81125**

Nemeschansky, Dennis *see* **Bagger, J. A.; et al., 89m:81130**

Neumann, Avidan U. (*with* Derrida, B.; Weisbuch, Gérard) Domains and distances in magnetic systems. **89i:82072**

Nieuwenhuizen, Th. M. *see* **Forgács, G.; et al., 89i:82068**

Nijboer, B. R. A. (*with* Ruijgrok, Th. W.) On the energy per particle in three- and two-dimensional Wigner lattices. **89j:82056**

den Nijs, Marcel P. M. *see* **Blöte, Henk W. J., 89j:81149**

Odagaki, T. Termite and ant diffusions in the d-dimensional lattice trapping model. **89b:82057**

Okado, Masato *see* **Jimbo, Michio; et al., 89e:82017** *and* **89j:17018**

Olive, D. I. Kac-Moody and Virasoro algebras in local quantum physics. **89c:17027**

Orland, H. *see* **Forgács, G.; et al., 89i:82068**

Packard, Norman H. Lattice models for solidification and aggregation. (*see* **89g:82013**)

Pan, C. Y. (*with* Chen, Xi Yao) q-color problem in D dimensions. **89k:82083**

— *see also* **Chen, Xi Yao, 89k:82082**

Perk, Jacques H. H. *see* **McCoy, Barry M., 89b:81206**

Pfister, Charles-Ed. *see* **Fröhlich, Jürg, 89h:82040**

Phares, Alain J. (*with* Wunderlich, Francis J.) Thermodynamics and molecular freedom of dimers on plane honeycomb and Kagomé lattices. (Italian and Russian summaries) **89m:82067**

Politi, A. *see* **Schneider, Toni; et al., 89b:82058**

Pospiech, C. *see* **van Enter, Aernout C. D.; et al., 89e:82004**

Qiu, Zongan Conformal field theories and modular invariant partition functions for parafermion field theories. **89d:81110**

Quinn, H. R. *see* **Horn, David; et al., 89j:81005**

Rehren, K.-H. (*with* Schroer, Bert) Exchange algebra on the light-cone and order/disorder $2n$-point functions in the Ising field theory. **89a:81051**

Rivet, Jean-Pierre *see* **Frisch, Uriel, 89k:82048**

Rodgers, G. J. (*with* Bray, A. J.) Critical behaviour of Dyson's hierarchical model with a random field. **89h:82008**

Ron, Dorit *see* **Kandel, Daniel; et al., 89b:82007**

Rosengren, Anders (*with* Lindström, Bernt) A combinatorial series expansion for the Ising model. **89c:82062**

Rühl, W. The critical behaviour of an O(N) Heisenberg model on finite three-dimensional lattices to the order N^{-1}. **89b:82030**

Ruijgrok, Th. W. *see* **Nijboer, B. R. A., 89j:82056** *and* **Coolen, A. C. C., 89j:92026**

Ruján, Pál Cellular automata and statistical mechanical models. **89h:68113**

Salas, J. *see* **González-Arroyo, A., 89k:82031**

Saleur, H. Partition functions of the two-dimensional Ashkin-Teller model on the critical line. **89e:81130**

— *see also* **Di Francesco, P.; et al., 89d:82038**

Sasaki, Mitsuhiro (*with* Katsura, Shigetoshi) The distribution function of the effective field of the Ising spin glass on the Bethe lattice for the coordination number $z=4,5,6$. **89m:82058**

Schiemann, J. *see* **Müller, V. F., 89m:81125**

Schneider, Toni (*with* Politi, A.; Sörensen, M. P.) Diffusion on a one-dimensional lattice and quantum localization. **89b:82058**

Schonmann, R. H. *see* **Chayes, J. T.; et al., 89k:82008**

Schroer, Bert *see* **Rehren, K.-H., 89a:81051**

Schütz, Gunter *see* **Henkel, Malte, 89k:82005**

Shender, E. F. *see* **Korenblit, I. Ya., 89f:82020**

(Shimomura, Tsutomu) *see* **Hasslacher, Brosl, (89m:01133a)**

Shlosman, S. B. Graph colouring: a way to variety of new correlation inequalities. **89d:82019**

Shrock, Robert E. *see* **Von Löhneysen, L.; et al., 89d:81084**

Silber, Mary (*with* Knobloch, Edgar) Pattern selection in ferrofluids. **89c:76064**

Sinaĭ, Ya. G. *see* **Dinaburg, E. I., 89k:82029**

Sklyanin, E. K. Boundary conditions for integrable quantum systems. **89h:81258**

— *see also* **Gaudin, Michel, 89c:82001**

Slavnov, N. A. *see* **Izergin, A. G.; et al., 89b:82022**

(Sloane, N. J. A.) *see* **Hall, George L., 89f:82066**

Sokal, Alan D. *see* **Edwards, Robert G., 89i:82003**

Sörensen, M. P. *see* **Schneider, Toni; et al., 89b:82058**

Spouge, John L. Exact solutions for a diffusion-reaction process in one dimension. **89b:82080**

Stamatescu, I. O. *see* **Von Löhneysen, L.; et al., 89d:81084**

Sugiyama, Yūki *see* **Yokota, Terufumi, 89a:82016**

Sütő, András *see* **Gruber, Christian, 89m:82017**

Suzuki, Junji (*with* Izuyama, Takeo) Statistical mechanics of polymer melting transition. **89d:82095**

Suzuki, Masuo Statistical mechanical theory of cooperative phenomena. II. Super-effective-field theory with applications to exotic phase transitions. **89j:82020**

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Takeno, S. (*with* Kisoda, K.; Homma, Shigeo) Approximate soliton solutions around an exact soliton solution of the Toda lattice equation. **89d:58114**

Tang, Kun Fa (*with* Hu, Jia Zhen) Critical behaviour of surfaces on hierarchical lattices. **89c:82019**

Tasaki, Hal Hyperscaling inequalities for percolation. **89b:82066**

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Thijssen, J. M. (*with* Knops, H. J. F.) Low temperature renormalisation study of the chiral clock model. **89h:82009**

Thompson, Colin J. *see* **Forrester, P. J., 89i:82008**

Tornau, E. *see* **Zubkus, V. E., 89b:82035**

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Turnbull, R. W. *see* **Wood, D. W.; et al., 89d:82120**

Ueda, Akira^2 *see* **Kadowaki, Shinji, 89b:82006**

Uĭmin, G. V. *see* **Korshunov, S. E., 89k:82034**

Upton, P. J. *see* **Abraham, D. B., 89i:82022**

Vila, Jorge Lattice gas with a weak long-range positive potential. **89b:82018**

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Wang, Jian A family of crossover exponents for the nonlinear resistor network. **89m:82094**

Wang, Jian-Sheng (*with* Lebowitz, Joel L.) Phase transitions and universality in nonequilibrium steady states of stochastic Ising models. **89m:82022**

Wang, Sun Chong *see* **Lin, K'ê Ying, 89d:82117**

Watanabe, Hiroshi^2 *see* **Hattori, Kumiko; et al., 89k:81118**

Weinstein, Marvin *see* **Horn, David; et al., 89j:81005**

Weisbuch, Gérard *see* **Neumann, Avidan U.; et al., 89i:82072**

Weyers, J. *see* **Horn, David, 89c:82056**

Wiersma, G. L. *see* **Elezović-Hadžić, S.; et al., 89f:82039**

Wolff, Ulli Lattice field theory as a percolation process. **89b:82009**

Wood, D. W. The algebraic construction of partition function zeros: universality and algebraic cycles. **89d:82119**

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Wunderlich, Francis J. *see* **Phares, Alain J., 89m:82067**

Yang, Sung-Kil (*with* Zheng, Hai Bin) Superconformal invariance in the two-dimensional Ashkin-Teller model. **89h:81156**

Yang, Wei-Shih *see* **Klein, David, 89k:82033**

Yokota, Terufumi (*with* Sugiyama, Yūki) Reentrant phase transitions in a quantum spin system with random fields. **89a:82016**

Zamolodchikov, Aleksandr B. Conformal scalar field on the hyperelliptic curve and critical Ashkin-Teller multipoint correlation functions. **89c:81174**

Zheng, Hai Bin *see* **Yang, Sung-Kil, 89h:81156**

Zhou, Yu Lin (*with* Guo, Bo Ling) Weak solution of system of ferromagnetic chain with several variables. **89h:35323**

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Zuber, J.-B. *see* **Cappelli, A.; et al., 89b:81178; Di Francesco, P.; et al., 89d:82038** *and* **Bagger, J. A.; et al., 89m:81130**

Zubkus, V. E. (*with* Tornau, E.) Thermodynamic properties of twenty-vertex models. (Russian. English summary) **89b:82035**

Items listed otherwise than by author

Phase transitions and critical phenomena ★ Phase transitions and critical phenomena. Vol. 9. **89g:82024**

82A69 Exactly solvable models (use only for secondary classification)

Akutsu, Yasuhiro (*with* Wadati, Miki) Knot invariants and the critical statistical systems. **89g:82084**

— (*with* Wadati, Miki) Exactly solvable models and new link polynomials. I. N-state vertex models. **89g:82085**

— (*with* Deguchi, Tetsuo; Wadati, Miki) Exactly solvable models and new link polynomials. II. Link polynomials for closed 3-braids. **89g:82086**

— *see also* **Olmedilla, Eugenio; et al., 89f:82097** *and* **Deguchi, Tetsuo; et al., 89j:82082**

Baxter, Rodney James Free energy of the solvable chiral Potts model. **89j:82081**

Bullough, R. K. (*with* Pilling, D. J.; Timonen, J.) Sine-Gordon statistical mechanics: classical limit of Bethe ansatz. (Russian summary) **89i:82104**

Deguchi, Tetsuo (*with* Akutsu, Yasuhiro; Wadati, Miki) Exactly solvable models and new link polynomials. III. Two-variable topological invariants. **89j:82082**

— *see also* **Akutsu, Yasuhiro; et al., 89g:82086**

Jimbo, Michio (*with* Miwa, Tetsuji; Okado, Masato) Solvable lattice models whose states are dominant integral weights of $A_{n-1}^{(1)}$. **89e:82017**

— *see also* **Okado, Masato; et al., 89j:82083**

Miwa, Tetsuji *see* **Jimbo, Michio; et al., 89e:82017** *and* **Okado, Masato; et al., 89j:82083**

Okado, Masato (*with* Jimbo, Michio; Miwa, Tetsuji) Two-dimensional solvable lattice models and modular functions. (Japanese) **89j:82083**

— *see also* **Jimbo, Michio; et al., 89e:82017**

Olmedilla, Eugenio (*with* Wadati, Miki; Akutsu, Yasuhiro) Yang-Baxter relations for spin models and fermion models. **89f:82097**

Pilling, D. J. *see* **Bullough, R. K.; et al., 89i:82104**

Timonen, J. *see* **Bullough, R. K.; et al., 89i:82104**

Wadati, Miki *see* **Olmedilla, Eugenio; et al., 89f:82097; Akutsu, Yasuhiro, 89g:82084; 89g:82085; 89g:82086** *and* **Deguchi, Tetsuo; et al., 89j:82082**

Items with secondary classifications in 82A69

Abraham, D. B. Surface structures and phase transitions—exact results. **89g:82019**

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Andrews, G. E. (*with* Baxter, Rodney James; Bressoud, D. M.; Burge, W. H.; Forrester, P. J.; Viennot, Gérard) Partitions with prescribed hook differences. **89g:05014**

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Au-Yang, H. (*with* Perk, Jacques H. H.; McCoy, Barry M.; Tang, Shuang; Yan, Mu Lin) Commuting transfer matrices in the chiral Potts models: solutions of star-triangle equations with genus > 1. **89g:82061**

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Azaria, P. (*with* Giacomini, H. J.) An exactly soluble two-dimensional Ising model with magnetic field. **89m:82070**

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Batchelor, M. T. (*with* Blöte, Henk W. J.) Conformal anomaly and scaling dimensions of the O(n) model from an exact solution on the honeycomb lattice. **89g:82064a**

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Belfi, Victor A. *see* **Huckaby, Dale A.; et al., 89k:82094**

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Blöte, Henk W. J. *see* **Batchelor, M. T., 89g:82064a; 89g:82064b** *and* **89m:82071**

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Bressoud, D. M. *see* **Andrews, G. E.; et al., 89g:05014**

Bullough, R. K. *see* **Timonen, J.; et al., 89k:82017**

Burge, W. H. *see* **Andrews, G. E.; et al., 89g:05014**

Chen, Yu-zhong *see* **Timonen, J.; et al., 89k:82017**

Chikyu, Tetsuhiko (*with* Suzuki, Masuo) A simple example of exactly solvable models with reentrant phenomena. **89g:82065**

Date, E. (*with* Jimbo, Michio; Kuniba, A.; Miwa, Tetsuji; Okado, Masato) Exactly solvable SOS models: local height probabilities and theta function identities. **89d:82114**

Di Francesco, P. (*with* Saleur, H.; Zuber, J.-B.) Relations between the Coulomb gas picture and conformal invariance of two-dimensional critical models. **89b:82024**

Duplantier, Bertrand (*with* Kostov, Ivan) Conformal spectra of polymers on a random surface. **89k:82067**

Dürr, Detlef *see* **de Smedt, Ph.; et al., 89i:82030**

Falicov, L. M. *see* **Reich, Ariel, 89a:82051**

Fateev, V. A. (*with* Lykyanov, S. L.) The models of two-dimensional conformal quantum field theory with Z_n symmetry. **89b:81186**

Fisher, Michael Ellis *see* **Singh, Rajiv R. P.; et al., 89k:82105**

Forrester, P. J. (*with* Andrews, G. E.) Height probabilities in solid-on-solid models. II. **89b:82092**

— *see also* **Andrews, G. E.; et al., 89g:05014**

Frisch, Uriel (*with* d'Humières, D.; Hasslacher, Brosl; Lallemand, P.; Pomeau, Y.; Rivet, Jean-Pierre) Lattice gas hydrodynamics in two and three dimensions. **89h:82031**

Giacomini, H. J. An exact result for the Kagomé lattice Ising model with magnetic field. **89b:82106**

— An exact functional relation for the partition function of a 2D Ising model with magnetic field. **89d:82126**

— *see also* **Azaria, P., 89m:82070**

Gölzer, B. A novel 15-vertex solution of the Sutherland equation. **89j:82071**

Grove, L. C. *see* **Tracy, Craig A.; et al., 89b:82125**

Haas, Tobias M. A numerical study of the phase structure of the q-state generalization of the hard-square model. (Not in MR)

Hamer, C. J. (*with* Quispel, G. R. W.; Batchelor, M. T.) Conformal anomaly and surface energy for Potts and Ashkin-Teller quantum chains. **89g:82069**

Hansel, D. (*with* Maillard, J.-M.) Symmetries of models with genus > 1. **89k:82093**

Hasslacher, Brosl *see* **Frisch, Uriel; et al., 89h:82031**

Hou, Bo Yu *see* **Zhou, Yu Kui; et al., 89k:82110**

Hronek, J. Spinless strong-coupling solitons in a discrete Peierls model. **89h:81273**

Hu, Jia Zhen *see* **Tang, Kun Fa, 89b:82123** *and* **89i:82101**

Huckaby, Dale A. (*with* Shinmi, Masato; Belfi, Victor A.) Exact two-phase coexistence surface for a three-component solution on a Bethe lattice. **89k:82094**

d'Humières, D. *see* **Frisch, Uriel; et al., 89h:82031**

Iglói, F. (*with* Zittartz, J.) Quantum Ising model with staggered interaction. **89b:82110**

Jimbo, Michio (*with* Miwa, Tetsuji; Okado, Masato) Solvable lattice models related to the vector representation of classical simple Lie algebras. **89j:17018**

— *see also* **Date, E.; et al., 89d:82114**

Johannesson, Henrik Universality classes of critical antiferromagnets. **89k:82096**

— Central charge for the integrable higher-spin XXZ model. **89m:82077**

Jones, V. F. R. On knot invariants related to some statistical mechanical models. **89m:57005**

Kashiwara, Masaki Algebraic analytical research applied in mathematical physics. (Japanese) **89g:58191**

Kauffman, Louis H. Statistical mechanics and the Jones polynomial. **89j:57002**

Kim, Doochul *see* **Pearce, Paul A., 89g:82075**

Kirillov, A. N. (*with* Smirnov, F. A.) Solution of some combinatorial problems arising in the calculation of correlators in exactly solvable models. (Russian. English summary) **89f:82082**

Klümper, A. (*with* Zittartz, J.) Eigenvalues of the eight-vertex model transfer matrix and the spectrum of the XYZ Hamiltonian. **89m:82078**

Kohno, Toshitake Monodromy representations of braid groups and Yang-Baxter equations. (French summary) **89h:17030**

Korepin, V. E. Exactly solvable spin models in quasicrystals. **89a:82045**

— Low-temperature asymptotics of correlation functions in a one-dimensional Bose gas. (Russian. English summary) **89k:82024**

Kostov, Ivan *see* **Duplantier, Bertrand, 89k:82067**

Kuniba, A. (*with* Yajima, Tetsu) Local state probabilities for an infinite sequence of solvable lattice models. **89f:82083**

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— *see also* **Date, E.; et al., 89d:82114**

Kwaśniewski, A. K. Calculation of the free energy for a chain in an arbitrary magnetic field. **89c:82073**

Lallemand, P. *see* **Frisch, Uriel; et al., 89h:82031**

Lebowitz, Joel L. *see* **de Smedt, Ph.; et al., 89i:82030**

Lin, K'ê Ying *see* **Wu, F. Y., 89b:82126a** *and* **89b:82126b**

Liverani, C. *see* **de Smedt, Ph.; et al., 89i:82030**

Lykyanov, S. L. *see* **Fateev, V. A., 89b:81186**

Maillard, J.-M. *see* **Hansel, D., 89k:82093**

Maillet, Jean-Michel (*with* Nijhoff, Frank W.) The tetrahedron equation and the four-simplex equation. **89k:82015**

McCoy, Barry M. *see* **Au-Yang, H.; et al., 89g:82061**

Miwa, Tetsuji Integrable lattice models and branching coefficients. **89h:82051**

— *see also* **Date, E.; et al., 89d:82114** *and* **Jimbo, Michio; et al., 89j:17018**

Murthy, Ganpathy N. *see* **Berkovich, A., 89h:82002**

Newman, M. F. *see* **Tracy, Craig A.; et al., 89b:82125**

Nijhoff, Frank W. *see* **Maillet, Jean-Michel, 89k:82015**

Okado, Masato *see* **Date, E.; et al., 89d:82114** *and* **Jimbo, Michio; et al., 89j:17018**

Olmedilla, Eugenio (*with* Wadati, Miki) Conserved quantities of the one-dimensional Hubbard model. **89g:82073**

Onishchuk, V. A. *see* **Ovchinnikov, A. A., 89m:82019**

Ovchinnikov, A. A. (*with* Onishchuk, V. A.) Solution of the kinetic Ising-Kac model. **89m:82019**

Owczarek, A. L. (*with* Baxter, Rodney James) A class of interaction-round-a-face models and its equivalence with an ice-type model. **89d:82137**

Pearce, Paul A. Inversion identities for self-dual Potts and Ashkin-Teller models. **89g:82074**

— (*with* Kim, Doochul) Continuously varying exponents in magnetic hard squares. **89g:82075**

— (*with* Seaton, Katherine A.) Solvable hierarchy of cyclic solid-on-solid lattice models. **89g:82076**

Percus, J. K. Exactly solvable models of classical many-body systems. **89d:82017**

Perk, Jacques H. H. *see* **Au-Yang, H.; et al., 89g:82061** *and* **Baxter, Rodney James; et al., 89g:82062**

Peschel, I. *see* **Truong, T. T., 89j:82080**

Pilling, D. J. *see* **Timonen, J.; et al., 89k:82017**

Pomeau, Y. *see* **Frisch, Uriel; et al., 89h:82031**

Privman, V. (*with* Švrakić, N. M.) Exact generating function for fully directed compact lattice animals. **89b:82097**

Pu, Fu Ke (*with* Zhou, Yu Kui) Exact solution of a multicomponent coupled spin model. **89g:82077**

Pustyl′nikov, L. D. A ground state in a model of Frenkel′ and Kontorova. **89i:82097**

Quispel, G. R. W. *see* **Alcaraz, Francisco C.; et al., 89b:82100** *and* **Hamer, C. J.; et al., 89g:82069**

Radosz, Andrzej A pseudo-Goldstone mode in the exactly solvable model of phase transitions. **89c:82075**

Reich, Ariel (*with* Falicov, L. M.) Heavy-fermion system: an exact many-body solution to a periodic-cluster Hubbard model. **89a:82051**

Reinicke, P. Analytical and nonanalytical corrections to finite-size scaling. **89c:82018**

Reshetikhin, N. Yu. The algebraic Bethe ansatz for $SO(N)$-invariant transfer matrices. (Russian. English summary) **89k:82103**

Richey, Matthew P. (*with* Tracy, Craig A.) Equation of state and isothermal compressibility for the hard hexagon model in the disordered regime. **89b:82121**

Rivet, Jean-Pierre *see* **Frisch, Uriel; et al., 89h:82031**

Ruján, Pál A symbolic algorithm for finding exactly soluble statistical mechanical models. **89h:82052**

Saleur, H. Correlation functions of the critical Ashkin-Teller model on a torus. **89h:82053**

— *see also* **Di Francesco, P.; et al., 89b:82024**

Scutaru, H. Classical realisation of YBZF algebras from classical realisations of Lie algebras. **89h:17032**

Seaton, Katherine A. *see* **Pearce, Paul A., 89g:82076**

Semenov-Tyan-Shanskiĭ, M. A. Classical r-matrices, Lax equations, Poisson Lie groups and dressing transformations. **89g:58098**

Shankar, Ramamunti *see* **Singh, Rajiv R. P.; et al., 89k:82105**

Shinmi, Masato *see* **Huckaby, Dale A.; et al., 89k:82094**

Singh, Rajiv R. P. (*with* Fisher, Michael Ellis; Shankar, Ramamunti) Spin-$\frac{1}{2}$ antiferromagnetic XXZ chain: new results and insights. **89k:82105**

Sklyanin, E. K. Boundary conditions for integrable quantum systems. **89h:81258**

Sluckin, T. J. A Potts model for the herringbone transition. **89c:82077**

de Smedt, Ph. (*with* Dürr, Detlef; Lebowitz, Joel L.; Liverani, C.) Quantum system in contact with a thermal environment: rigorous treatment of a simple model. **89i:82030**

Smirnov, F. A. *see* **Kirillov, A. N., 89f:82082**

Stamenković, S. (*with* Tonchev, N. S.; Zagrebnov, V. A.) Exactly soluble model for structural phase transition with a Gaussian type anharmonicity. **89d:82035**

Suzuki, Junji Simple excitations in the nested Bethe-ansatz model. **89k:82108**

Suzuki, Masuo *see* **Chikyu, Tetsuhiko, 89g:82065**

Švrakić, N. M. *see* **Privman, V., 89b:82097**

Tang, Jian Gang *see* **Zhou, Huan Qiang, 89i:82103**

Tang, Kun Fa (*with* Hu, Jia Zhen) A disorder solution for a generalised mixed-spin model. **89b:82123**

— (*with* Hu, Jia Zhen) Exact solution of a generalized mixed spin model on a disordered domain. (Chinese. English summary) **89i:82101**

Tang, Shuang *see* **Au-Yang, H.; et al., 89g:82061**

Timonen, J. (*with* Pilling, D. J.; Chen, Yu-zhong; Bullough, R. K.) Recent results on the statistical mechanics of integrable models in $1+1$ dimensions. **89k:82017**

Tonchev, N. S. *see* **Stamenković, S.; et al., 89d:82035** *and* **Brankov, I. G., 89j:82018**

Tornau, E. *see* **Zubkus, V. E., 89b:82035**

Tracy, Craig A. (*with* Grove, L. C.; Newman, M. F.) Modular properties of the hard hexagon model. **89b:82125**

— *see also* **Richey, Matthew P., 89b:82121**

Truong, T. T. (*with* Peschel, I.) Diagonalisation of corner transfer matrix by orthogonal polynomials. **89j:82080**

Viennot, Gérard *see* **Andrews, G. E.; et al., 89g:05014**

Wadati, Miki *see* **Olmedilla, Eugenio, 89g:82073** *and* **Akutsu, Yasuhiro, 89k:57005**

Wu, F. Y. (*with* Lin, K'ê Ying) Ising model on the union jack lattice as a free fermion model. **89b:82126a**

— (*with* Lin, K'ê Ying) Corrigendum: "Ising model on the union jack lattice as a free fermion model". **89b:82126b**

Yajima, Tetsu *see* **Kuniba, A., 89f:82083** *and* **89m:82080**

Yan, Mu Lin *see* **Au-Yang, H.; et al., 89g:82061** *and* **Zhou, Yu Kui; et al., 89k:82110**

Yang, Zhan Ru Family of diamond-type hierarchical lattices. **89d:82148**

Zagrebnov, V. A. *see* **Stamenković, S.; et al., 89d:82035**

Zamolodchikov, Aleksandr B. Integrals of motion in scaling 3-state Potts model field theory. **89f:82025**

Zhou, Huan Qiang (*with* Tang, Jian Gang) Further results for infinite conservation laws in the one-dimensional Hubbard model. **89i:82103**

Zhou, Yu Kui (*with* Yan, Mu Lin; Hou, Bo Yu) Exact solution of the $Z_n \times Z_n$ symmetric generalisation of Baxter's eight-vertex model. **89k:82110**

— Algebraic Bethe ansatz for the nonlinear Schrödinger model. I. Multicomponent fields. **89m:81169**

— Algebraic Bethe ansatz for the nonlinear Schrödinger model. II. Mixed fermion and boson fields. **89m:81170**

— *see also* **Pu, Fu Ke, 89g:82077**

Zittartz, J. *see* **Iglói, F., 89b:82110** *and* **Klümper, A., 89m:82078**

Zuber, J.-B. *see* **Di Francesco, P.; et al., 89b:82024**

Zubkus, V. E. (*with* Tornau, E.) Thermodynamic properties of twenty-vertex models. (Russian. English summary) **89b:82035**

82A70 Transport processes [see also 85A25]

Agoshkov, V. I. (*with* Lobarev, I. V.) ★ Применение вариационных принципов к решению уравнения переноса. (Russian) [Application of variational principles to the solution of a transport equation] **89d:82149**

Anikonov, Yu. E. (*with* Bubnov, B. A.) Inverse problems of transport theory. **89i:82105**

Apresyan, L. A. A case of the applicability of the radiative transfer equation to a one-dimensional scattering problem. (Russian) **89i:82106**

Asadzadeh, Mohammad L_2-error estimates for the discrete ordinates method for three-dimensional neutron transport. **89k:82111**

Authelin, Jean-René *see* **Villermaux, Jacques; et al., 89j:82086**

Bassi, L. (*with* De Vito, A.) The transport problem in the space external to a sphere. **89j:82084**

Bilenko, V. I. A numerical-analytic algorithm for solving an equation of the transport of particles in plane geometry. (Russian) **89d:82150**

Boffi, V. C. (*with* Rossani, A.) Space-dependent forces and current density transients in particle transport theory. (Italian summary) (Not in MR)

Bubnov, B. A. *see* **Anikonov, Yu. E., 89i:82105**

Chan, Derek Y. C. (*with* Hughes, Barry D.) Ion diffusion in a Coulombic field. **89i:82107**

De Vito, A. *see* **Bassi, L., 89j:82084**

Emamirad, H. Scattering theory for linearized Boltzmann equation. Survey and new results. **89g:82087**

Engibaryan, N. B. (*with* Muradyan, M. G.) Some inverse problems in transport theory. (Russian. Armenian summary) **89h:82058**

Felderhof, B. U. The contribution of Brownian motion to the viscosity of suspensions of spherical particles. **89a:82058**

Frosali, G. (*with* van der Mee, C. V. M.; Protopopescu, V.) Transport equations with boundary conditions of reverse reflection type. **89b:82128**

Ganchev, Alexander H. (*with* Greenberg, William) Linear half space transport equations with accretive, invertible collision operators. **89h:82059**

Gerasimenko, V. I. (*with* Stashenko, M. A.) Mathematical problems in the description of a system of electrolyte-membrane solutions. (Russian) **89k:82112**

Goldhirsch, I. (*with* Noskowicz, S. H.) Anomalous fluctuations in random walk dynamics. **89b:82129a**

— *see also* **Noskowicz, S. H., 89b:82129b**

Golse, François Remarques sur l'homogénéisation des équations de transport. (English summary) [Remarks on the homogenization of transport equations] **89b:82130**

Greenberg, William *see* **Ganchev, Alexander H., 89h:82059**

Hanke, Michael On the nonlinear Boltzmann equation of the carrier transport in semiconductors. I. Existence and uniqueness of solutions. (German and Russian summaries) **89m:82088**

Hara, Hiroaki (*with* Obata, Tsunehiro; Lee, Seung Joo) Fluctuation and bifurcation of the path described by generalized random walks. **89a:82059**

Hughes, Barry D. *see* **Chan, Derek Y. C., 89i:82107**

Ivankov, A. L. Inverse problems of the determination of the parameters of the nonstationary transport equation that do not depend on certain space and velocity coordinates. (Russian) **89k:82113**

Juang, Jonq (*with* Nelson, Paul, Jr.) Existence and uniqueness results for a nonlinear integro-differential initial-value problem arising in transport theory. **89a:82060**

Karyukin, V. V. Linear equations connected with optimization of the Monte Carlo method in calculations of radiative transfer. (Russian. English summary) **89a:82061**

Keller, H. B. (*with* Nelson, Paul, Jr.) Closed linear one-cell functional spatial approximations: consistency implies convergence and stability. **89h:82060**

Kelley, C. T. The F_N method in slab geometries with a polynomial basis. **89h:82061**

King, John Robert (*with* Please, C. P.) Diffusion of dopant in crystalline silicon: an asymptotic analysis. **89m:82089**

Kitada, Akihiko Comment on: "On a property of a classical solution of the nonlinear mass transport equation $u_t = u_{xx}/1 + u_x^2$. II" [J. Math. Phys. **28** (1987), no. 3, 536–537; MR 88e:82035] by Kitada and H. Umehara. **89g:82088**

Kondratenko, E. P. *see* **Voloshchenko, A. M.**, (Not in MR)

Koplik, J. (*with* Redner, S.; Wilkinson, David John) Transport and dispersion in random networks with percolation disorder. **89b:82131**

Larsen, Edward W. Solution of three-dimensional inverse transport problems. **89i:82108**

Lee, Seung Joo *see* **Hara, Hiroaki; et al., 89a:82059**

Levermore, C. David (*with* Wong, Joe; Pomraning, G. C.) Renewal theory for transport processes in binary statistical mixtures. **89d:82151**

Lobarev, I. V. *see* **Agoshkov, V. I., 89d:82149**

Mas-Gallic, S. (*with* Poupaud, F.) Approximation of the transport equation by a weighted particle method. **89i:82109**

Matveev, N. M. (*with* Nosov, S. L.) Solution of a stationary mass transport equation. (Russian) **89m:82090**

van der Mee, C. V. M. *see* **Frosali, G.; et al., 89b:82128**

Mokhtar-Kharroubi, Mustapha La positivité dans la théorie du transport des neutrons. (English summary) [Positivity in neutron transport theory] **89a:82062**

Muradyan, M. G. *see* **Engibaryan, N. B., 89h:82058**

Nelson, Paul, Jr. *see* **Juang, Jonq, 89a:82060** *and* **Keller, H. B., 89h:82060**

Noskowicz, S. H. (*with* Goldhirsch, I.) Distribution functions for random walk processes on networks: an analytic method. **89b:82129b**

— *see also* **Goldhirsch, I., 89b:82129a**

Nosov, S. L. *see* **Matveev, N. M., 89m:82090**

Obata, Tsunehiro *see* **Hara, Hiroaki; et al., 89a:82059**

Orlovskiĭ, D. G. Differentiability of the solution of the nonstationary multivelocity neutron transport equation. (Russian) **89j:82085**

Palmeri, J. The one-dimensional monoenergetic time-dependent transport equation in infinite media (revisited). **89d:82152**

Paveri-Fontana, S. L. (*with* Zweifel, P. F.) Application of the closure relation in transport theory. **89d:82153**

Pei, Lu Cheng The track contribution Monte Carlo method. (Chinese. English summary) **89i:82110**

Please, C. P. *see* **King, John Robert, 89m:82089**

Pomraning, G. C. Transport and diffusion in a statistical medium. **89b:82132**

— Initial and boundary conditions for flux-limited diffusion theory. **89d:82154**

— *see also* **Levermore, C. David; et al., 89d:82151**

Poupaud, F. *see* **Mas-Gallic, S., 89i:82109**

Prilepko, A. I. (*with* Volkov, N. P.) Inverse problems for determining the parameters of the nonstationary kinetic transport equation from additional information on the traces of the unknown function. **89b:82133**

Protopopescu, V. *see* **Frosali, G.; et al., 89b:82128**

Ramshaw, John D. Elementary derivation of nonlinear transport equations from statistical mechanics. **89a:82063**

Recke, Lutz An example for bifurcation of solutions of the basic equations for carrier distributions in semiconductors. **89b:82134**

Redner, S. *see* **Koplik, J.; et al., 89b:82131**

Ribarič, Marjan (*with* Šušteršič, Luka) A linear transport equation for wave phenomena. **89d:82155**
Rossani, A. *see* **Boffi, V. C.**, (Not in MR)
Schweich, Daniel *see* **Villermaux, Jacques; et al.**, **89j:82086**
Seidman, Thomas I. The transient semiconductor problem computational modeling of velocities. (*see* **89m:78001**)
Sengupta, Ashok (*with* Venkatesan, C. K.) On a discretised spectral approximation in neutron transport theory. **89g:82089**
Shulaya, D. A. On the solution of boundary value problems for the transport equation in line frequencies. (Russian. English and Georgian summaries) (*see* **89b:82003**)
Slawny, Joseph (*with* Zweifel, P. F.) A note on the singular eigenfunction method in transport energy. **89m:82091**
Song, Yu He (*with* Yang, Ming Zhu) Spectral approximation theory for multigroup neutron transport operators. **89b:82135**
Stashenko, M. A. *see* **Gerasimenko, V. I.**, **89k:82112**
Sukavanam, N. A note on the Chandrasekhar's X-function. **89f:82098**
Šušteršič, Luka *see* **Ribarič, Marjan**, **89d:82155**
Umbetzhanov, D. U. An almost multiperiodic solution of a class of linear equations of transport type. (Russian) **89m:82092**
(Umehara, H.) *see* **Kitada, Akihiko**, **89g:82088**
Venkatesan, C. K. *see* **Sengupta, Ashok**, **89g:82089**
Villermaux, Jacques (*with* Schweich, Daniel; Authelin, Jean-René) Le "peigne du diable", un modèle d'interface fractale bidimensionnelle. (English summary) [The "devil's comb", a model for a two-dimensional fractal interface] **89j:82086**
Volkov, N. P. *see* **Prilepko, A. I.**, **89b:82133**
Voloshchenko, A. M. (*with* Kondratenko, E. P.) A KP_1-scheme for the acceleration of inner iterations that is consistent with a family of WLM-WLD-schemes for the transport equation in one-dimensional geometries. (Russian. English summary) (Not in MR)
Wilkinson, David John *see* **Koplik, J.; et al.**, **89b:82131**
Wolf, Fritz Lie algebraic solutions of linear Fokker-Planck equations. **89h:82062**
Wong, Joe *see* **Levermore, C. David; et al.**, **89d:82151**
Yang, Ming Zhu *see* **Song, Yu He**, **89b:82135**
Yao, Ai Xiang Neumann series solution for the integral Boltzmann transport equation. **89a:82064**
Yavushkin, V. I. Acceleration of convergence of a method for simple iteration in problems of transport theory. (Russian) **89h:82063**
Zhang, Shi Sheng Existence theorems for a class of Chandrasekhar H-equation with perturbation in transport theory. **89a:82065**
Zweifel, P. F. *see* **Paveri-Fontana, S. L.**, **89d:82153** *and* **Slawny, Joseph**, **89m:82091**

Items with secondary classifications in 82A70

Argyros, I. K. On a class of nonlinear integral equations arising in neutron transport. **89m:47058**
Arlotti, L. On the linear transport equation for rigid spheres. **89k:82047**
Balberg, I. Nonuniversal behavior of the cluster properties in continuum systems. **89a:82001**
van Beijeren, H. How does one characterize macroscopic diffusion? (*see* **89e:60005**)
Belyanin, M. P. (*with* Vasil′eva, A. B.) On an inner transition layer in a problem of the theory of semiconductor films. (Russian) **89h:34051**
Bhutani, O. P. (*with* Chandrasekaran, G.; Mital, Poornima) On the exact solutions of nonlinear differential equations of nuclear engineering system via invariant variational principles. **89h:80007**
Boffi, V. C. (*with* Spiga, G.) Spatial effects in the study of nonlinear evolution problems of particle transport theory. **89i:82031**
Bourgeat, Alain (*with* Quintard, Michel; Whitaker, Stephen) Éléments de comparaison entre la méthode d'homogénéisation et la méthode de prise de moyenne avec fermeture. (English summary) [Comparison between homogenization theory and the method of volume averaging with closure] **89m:76060**
Brietzke, Eduardo (*with* Nowosad, Pedro) Mathematical aspects of the minimum critical mass problem. **89i:82111**
Bunde, Armin Anomalous transport in disordered structures: effect of additional disorder. (*see* **89j:00034**)
— (*with* Havlin, Shlomo; Stanley, H. E.) Anomalous transport in random linear structures. (*see* **89j:00034**)
Chandrasekaran, G. *see* **Bhutani, O. P.; et al.**, **89h:80007**
Colombo, V. *see* **Monegato, G.**, **89g:65169**
Cosner, Chris (*with* Lenhart, Suzanne M.; Protopopescu, V.) Transport equations with second-order differential collision operators. **89h:35283**
Dukek, G. *see* **Rupp, D.; et al.**, **89h:82023**
Enders, P. A class of solutions of nonlinear evolution equations with diffusion. (German summary) **89m:35104**
Engibaryan, N. B. *see* **Vardanyan, R. S.**, **89d:85007**
Enz, Charles P. Nonequilibrium correlation functions. **89b:82042**
Ermakov, S. M. (*with* Moskaleva, N. M.) Branching processes and the Boltzmann equation. Computational aspects. (Russian. English summary) **89b:82005**
Friedberg, R. Random walks exterior to a rectangle. **89d:82007**
Frosali, G. (*with* Protopopescu, V.) Can the mixed norm be used in kinetic theory? (Italian summary) **89d:47084**
Funaki, Tadahisa Construction of stochastic processes associated with the Boltzmann equation and its applications. **89a:60182**
Ganchev, Alexander H. (*with* Greenberg, William; van der Mee, C. V. M.) Perturbation of bisemigroups and boundary value problems for abstract kinetic equations. **89f:47063**
— Perturbation of bisemigroups and transport theory. **89k:47058**
— (*with* Greenberg, William; van der Mee, C. V. M.) Perturbation analysis of analytic bisemigroups and applications to linear transport theory. **89d:47089**
Garzó, V. On the derivation of the Burnett hydrodynamic equations from the Hilbert expansion. **89f:82035**
(Germogenova, T. A.) *see* **Knyazikhin, Yu.**, **89c:85001**
Ghez, Richard ★ A primer of diffusion problems. **89m:35001**
Goldstein, Byron *see* **Torney, David C.**, **89f:35064**
Gorunovich, V. V. (*with* Malyshev, P. V.) Solution of a problem on the convective diffusion of electrolytes in the potential field of a membrane. (Russian) (*see* **89j:82003**)
Greenberg, William (*with* van der Mee, C. V. M.; Waluś, Włodzimierz) Strong solutions of stationary equations in abstract kinetic theory. **89e:42010**
— *see also* **Ganchev, Alexander H.; et al.**, **89d:47089** *and* **89f:47063**
Havlin, Shlomo *see* **Bunde, Armin; et al.**, (**89j:00034**)
Hwa, Terence *see* **Medina, Ernesto; et al.**, **89m:82027**
Kardar, Mehran *see* **Medina, Ernesto; et al.**, **89m:82027**
Kerkhoven, Thomas A spectral analysis of the decoupling algorithm for semiconductor simulation. **89k:65008**
Knyazikhin, Yu. (*with* Marshak, A.) ★ Метод дискретных ординат решения уравнения переноса. (Russian) [The discrete ordinate method for solving the transport equation] **89c:85001**
Krengel, Ulrich (*with* Lin, Michael) An integral representation of disjointly additive order preserving operators in L_1. **89j:47038**
Krupkin, P. L. Localization of the solutions of an equation of stimulated diffusion. (Russian) **89m:35110**
Larsen, Edward W. (*with* Morel, Jim Emanuel; Miller, Warren F., Jr.) Asymptotic solutions of numerical transport problems in optically thick, diffusive regimes. **89b:65191**
Lenhart, Suzanne M. *see* **Cosner, Chris; et al.**, **89h:35283**
Lin, Michael *see* **Krengel, Ulrich**, **89j:47038**
Lupini, R. (*with* Spiga, G.) Chaotic dynamics of spatially homogeneous gas mixtures. **89e:58078**
Malyshev, P. V. *see* **Gorunovich, V. V.**, (**89j:82003**)
Marshak, A. *see* **Knyazikhin, Yu.**, **89c:85001**
Medina, Ernesto (*with* Hwa, Terence; Kardar, Mehran; Zhang, Yi Cheng) Burgers' equation with correlated noise: renormalization-group analysis and applications to directed polymers and interface growth. **89m:82027**
van der Mee, C. V. M. Kinetic equations with collision operators of spectral radius less than one. **89h:47016**
— *see also* **Ganchev, Alexander H.; et al.**, **89d:47089**; **Greenberg, William; et al.**, **89e:42010** *and* **Ganchev, Alexander H.; et al.**, **89f:47063**
Mikhaĭlov, G. A. ★ Методы Монте-Карло для решения задач со случайными параметрами. (Russian) [Monte Carlo methods for solving problems with random parameters] **89h:65013**
Miller, Warren F., Jr. *see* **Larsen, Edward W.; et al.**, **89b:65191**
Mital, Poornima *see* **Bhutani, O. P.; et al.**, **89h:80007**
Mokhtar-Kharroubi, Mustapha Spectral theory of the neutron transport operator in bounded geometries. **89d:47115**
Monegato, G. (*with* Colombo, V.) Erratum: "Product integration for the linear transport equation in slab geometry" [Numer. Math. **52** (1988), no. 2, 219–240; MR 88k:65133]. **89g:65169**
Morel, Jim Emanuel *see* **Larsen, Edward W.; et al.**, **89b:65191**
Moskaleva, N. M. *see* **Ermakov, S. M.**, **89b:82005**
(Nikolaĭshvili, Sh. S.) *see* **Approximate methods for solving some problems of the transfer of neutron and gamma radiation**, **89b:82003**
Nonnenmacher, T. F. *see* **Rupp, D.; et al.**, **89h:82023**
Nowosad, Pedro *see* **Brietzke, Eduardo**, **89i:82111**
Noye, John Finite-difference methods for the one-dimensional transport equation. **89e:65090**
Nyiri, B. Thermodynamical derivation of equations of motion for multicomponent fluids. **89c:80006**
Ozrin, V. D. Time asymptotics of the Burnett correlation function in the Lorentz model. **89k:82051**
Petrina, D. Ya. The process of electrolytes passing through a membrane as a boundary value problem in domains with a fine-grained structure. (Russian) (*see* **89j:82003**)
Pignedoli, Antonio On the differential equations of diffusion of particles in the stochastic model. (Italian. English summary) **89d:82053**
Protopopescu, V. The abstract time-dependent transport equation. **89a:35203**
— *see also* **Frosali, G.**, **89d:47084** *and* **Cosner, Chris; et al.**, **89h:35283**
Provodenko, O. P. Kinetic equations for particles in a multiphase medium, and transport equations. (Russian) (*see* **89g:00008**)
Quintard, Michel *see* **Bourgeat, Alain; et al.**, **89m:76060**
Ran, A. C. M. (*with* Rodman, Leiba) A matricial boundary value problem which appears in the transport theory. **89b:47048**
Rionero, S. Global solution to a nonlinear integral evolution problem in particle transport theory. **89h:82022**
Rodman, Leiba *see* **Ran, A. C. M.**, **89b:47048**
Rupp, D. (*with* Dukek, G.; Nonnenmacher, T. F.) Particle transport in a host medium with an external source: exact solutions for a nonlinear homogeneous Boltzmann equation. (German summary) **89h:82023**
Schöll, E. ★ Nonequilibrium phase transitions in semiconductors. **89c:58118**
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82A75 Nuclear reactor theory

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82A97 Mathematically heuristic statistical physics (must also be assigned at least one other classification number in this section)

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82A99 Miscellaneous topics

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Frisch, Harry L. *see* **Williams, G. O.**, **89j:82097**

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Huberman, B. A. *see* **Ceccatto, H. A.**, **89d:82157**

Iglesias, J. R. *see* **de Almeida, Rita M. C.**, **89i:82112**

Ishii, Chikai *see* **Tsukamoto, Tatsuo; et al.**, **89d:82164**

Jones, Robert B. *see* **Felderhof, B. U.**, **89b:82139**

Kiselev, V. V. *see* **Borisov, A. B.**, **89f:82099**

Klein, William *see* **Hartman, Hyman; et al.**, **89b:82140**

Kokholm, Niels Jørgen On Smoluchowski's coagulation equation. **89d:82161**

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Matsuzaki, Hisao *see* **Tsukamoto, Tatsuo; et al., 89d:82164**
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Miranda, E. N. (*with* Parga, N.) Ultrametricity in the Kauffman model: a numerical test. **89b:82143**
Mirollo, R. E. *see* **Strogatz, S. H., 89i:82118a** *and* **89i:82118b**
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Nishikawa, Ikuko *see* **Takayasu, Hideki; et al., 89b:82149** *and* **Kuramoto, Yoshiki, 89c:82078**
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Ord, G. (*with* Percus, J. K.; Zhang, M. Q.) Energetics of a discrete interface. **89m:82093**
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Parga, N. *see* **Miranda, E. N., 89b:82143**
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Percus, J. K. *see* **Ord, G.; et al., 89m:82093**
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van Saarloos, Wim Front propagation into unstable states: marginal stability as a dynamical mechanism for velocity selection. **89b:82147**
Sakaguchi, Hidetsugu Cooperative phenomena in coupled oscillator systems under external fields. **89b:82148**
Salamon, Peter *see* **Nulton, James D., 89b:82144**
Savit, Robert *see* **Cheng, Zheming, 89b:82138**
Shirvani, M. (*with* Stock, J. D. R.) On mass-conserving solutions of the discrete coagulation equation. **89d:82162**
Spohn, Herbert *see* **Krug, J., 89i:82117**
Sprekels, Jürgen *see* **Hoffmann, Karl-Heinz^2; et al., 89i:82116**
Stock, J. D. R. *see* **Shirvani, M., 89d:82162**
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Takayasu, Hideki (*with* Nishikawa, Ikuko; Tasaki, Hal) Power-law mass distribution of aggregation systems with injection. **89b:82149**
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Tamayo, Pablo *see* **Hartman, Hyman; et al., 89b:82140**
Tasaki, Hal *see* **Takayasu, Hideki; et al., 89b:82149**
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Visintin, A. Mathematical models of hysteresis. **89j:82096**
— *see also* **Hoffmann, Karl-Heinz^2; et al., 89i:82116**
Walgraef, Daniel Patterns and defects far from equilibrium. **89d:82165**
Wang, Jian A family of crossover exponents for the nonlinear resistor network. **89m:82094**
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Williams, G. O. (*with* Frisch, Harry L.) Anomalous scaling in systems partially controlled by diffusion. **89j:82097**
Zachary, Woodford W. *see* **Gill, Tepper L., 89d:82160**
Zacherl, A. *see* **Geisel, T.; et al., 89d:82159**
Zhang, M. Q. *see* **Ord, G.; et al., 89m:82093**
Zheng, Qiang Diffusion in ultrametric space. **89d:82166**
Ziff, Robert M. *see* **McGrady, E. D., 89c:82079**
Ziman, Timothy *see* **Megann, A. P., 89b:82142**

Items with secondary classifications in 82A99

Aarts, E. (*with* Korst, Jan H. M.; van Laarhoven, P. J. M.) A quantitative analysis of the simulated annealing algorithm: a case study for the traveling salesman problem. **89d:90086**
Alabiso, C. (*with* Casartelli, M.) Complexity and relaxation in nonlinear chains and in a model of radiant cavity. **89k:58079**
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Balazs, N. L. *see* **Balian, Roger, 89b:81027**
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Ball, R. C. *see* **Blunt, M. J., 89c:76100**
Bebie, H. (*with* Marchand, J.-P.) Population model with quasi-periodic clustering. **89g:60302**
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Bondarev, B. V. Statistical theory of systems of created reactive species. **89g:92077**
Boon, J.-P. *see* **d'Humières, D.; et al., 89j:76016**
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Chong, Chee-Yee *see* **Malhamé, Roland, 89a:60244**
Chou, Weiren (*with* Duffin, R. J.) An additive eigenvalue problem of physics related to linear programming. **89e:81049**
Christiansen, P. L. *see* **Cruzeiro-Hansson, L.; et al., 89e:92061**
Clark, John W. Statistical mechanics of neural networks. **89g:92013**
Cloitre, M. *see* **Allain, C., 89k:82086**
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Crutchfield, James P. (*with* Kaneko, Kunihiko) Are attractors relevant to turbulence? **89j:76057**
Cruzeiro-Hansson, L. (*with* Christiansen, P. L.; Elgin, J. N.) Comment on "Self-trapping on a dimer: time-dependent solutions of a discrete nonlinear Schrödinger equation". **89e:92061**

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Dab, D. *see* **d'Humières, D.; et al., 89j:76016**
Dannevik, William P. (*with* Yakhot, Victor; Orszag, Steven A.) Analytical theories of turbulence and the ε expansion. **89h:76021**
Dawes, Robert L. *see* **Kowalski, Jacek M.; et al., 89j:70038**
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Derrida, B. (*with* Nadal, J.-P.) Learning and forgetting on asymmetric, diluted neural networks. **89c:92013**
Divko, R. *see* **Buhmann, J.; et al., 89m:92012**
Duffin, R. J. *see* **Chou, Weiren, 89e:81049**
Eckmann, J.-P. The mechanism of Feigenbaum universality. **89f:58088**
Elenin, G. G. (*with* Krylov, Vasiliĭ Vilenovich; Sosnin, N. V.) Exact solutions of a problem of crystallization of filterable solutions. **89i:35116**
— (*with* Krylov, Vasiliĭ Vilenovich; Sosnin, N. V.) The problem of dissolution of a dense homogeneous crystal layer. **89d:80026**
Elgin, J. N. *see* **Cruzeiro-Hansson, L.; et al., 89e:92061**
Elphick, Christian *see* **Coullet, P.; et al., 89k:58176**
Erzan, Ayşe *see* **Pietronero, L.; et al., 89i:82073**
Evertsz, C. *see* **Pietronero, L.; et al., 89i:82073**
Ezhov, A. A. *see* **Vedenov, A. A.; et al., 89h:92073**
Falconer, K. J. (*with* Marsh, D. T.) The dimension of affine-invariant fractals. **89h:28009**
Federgruen, Awi *see* **Anily, S., 89h:90183**
Feingold, Mario *see* **Piro, Oreste, 89i:58096**
Felderhof, B. U. (*with* Jones, Robert B.) Convective motion and transfer of force by many-body hydrodynamic interaction. **89c:76105**
— Many-body hydrodynamic interactions in suspensions. **89i:76040**
Fernández, Ariel Self-organisation in the centre manifold of a dissipative system. **89h:92009**
— Phase-ordering dynamics for the onset of a center manifold. **89i:58084**
Flyvbjerg, H. (*with* Kjær, N. J.) Exact solution of Kauffman's model with connectivity one. **89j:92027**
Foidl, Ch. (*with* Kasperkovitz, P.) Velocity dependent invariants for hard particles in one dimension. **89k:70029**
Fontanari, J. F. (*with* Köberle, R.) Enhancing the learning of a finite number of patterns in neural networks. **89c:92015**
— (*with* Köberle, R.) Neural networks with transparent memory. **89c:92016**
— (*with* Köberle, R.) Information processing in synchronous neural networks. (French summary) **89c:92017**
Ford, Joseph Directions in classical chaos. **89d:58082**
Fouque, Jean-Pierre *see* **Benassi, Albert, 89k:60153**
Fröhlich, Jürg *see* **Albanese, C., 89i:35114**
Fujisaka, Hirokazu (*with* Inoue, Masayoshi) Theory of diffusion and intermittency in chaotic systems. III. New approach to temporal correlations. **89a:58069**
— *see also* **Inoue, Masayoshi; et al., 89h:58117**
Fukuda, Reijiro Stability conditions in quantum system. A general formalism. **89j:81075**
Gangal, A. D. *see* **Amritkar, R. E.; et al., 89h:28007**
Gaponov-Grekhov, A. V. (*with* Rabinovich, M. I.) Autostructures. The chaotic dynamics of ensembles. (Russian) **89f:76054**
— *see also* **Schuster, Heinz Georg, 89h:58130**
Gardner, E. The space of interactions in neural network models. **89g:92016**
Geigenmüller, U. (*with* Mazur, Peter) Sedimentation of homogeneous suspensions in finite vessels. **89k:76092**
Ghidaglia, Jean-Michel Generalized Lieb-Thirring inequalities and the dimension of attractors associated to the Ginzburg-Landau p.d.e. (*see* **89g:58004**)
Gil, L. (*with* Lega, J.) Defects in waves. (*see* **89f:76003**)
Goldberg, Charles H. Parity filter automata. **89h:68110**
Greiner, W. *see* **Pop, A.; et al., 89c:81186**
Grensing, D. *see* **van Hemmen, J. L.; et al., 89m:92020**
Griffeath, David *see* **Bramson, Maury, 89k:60154**
Grinstein, Geoffrey Stability of nonstationary states of classical, many-body dynamical systems. **89k:58179**
Gröger, K. Initial-boundary value problems from semiconductor device theory. (German and Russian summaries) **89f:78024**
Gross, Gunther *see* **Kowalski, Jacek M.; et al., 89j:70038**
Gross, Robert (*with* Yarmush, Martin L.; Kennedy, John W.; Quintas, Louis V.) Antigenesis: a cascade-theoretical analysis of the size distributions of antigen-antibody complexes. **89c:92019**
Grundland, A. M. (*with* Tuszyński, J. A.) Symmetry breaking and bifurcating solutions in the classical complex φ^6 field theory. **89e:81150**
Gupte, Neelima *see* **Amritkar, R. E.; et al., 89h:28007**
Gutzwiller, Martin C. (*with* Mandelbrot, B. B.) Invariant multifractal measures in chaotic Hamiltonian systems, and related structures. **89b:58134**
van Hemmen, J. L. (*with* Wreszinski, W.) Universal upper bound for the tunneling rate of a large quantum spin. **89j:81285**
— (*with* Grensing, D.; Huber, A.; Kühn, Reimer) Nonlinear neural networks. II. Information processing. **89m:92020**
— *see also* **Bõs, S.; et al., 89j:92023**
Hernández, E. S. *see* **Cataldo, H. M., 89f:81269**
Huber, A. *see* **van Hemmen, J. L.; et al., 89m:92020**
d'Humières, D. (*with* Lallemand, P.; Boon, J.-P.; Dab, D.; Noullez, A.) Fluid dynamics with lattice gases. **89j:76016**
Ichimura, Atsushi *see* **Nagai, Yoshinori; et al., 89h:58129**
Inayat-Hussain, A. A. New properties of hypergeometric series derivable from Feynman integrals. II. A generalisation of the H function. **89b:81059**
Inoue, Masayoshi (*with* Fujisaka, Hirokazu; Yamaki, O.) Scaling behavior of fluctuation spectrum for pure intermittency chaos. **89h:58117**
— *see also* **Fujisaka, Hirokazu, 89a:58069**
Iroshnikov, R. S. On the free evolution of spectra of two-dimensional turbulence in a single-layer ocean with a free surface on the β-plane. (Russian) **89f:76056**
Ivanova, E. V. On a problem of the calculation by the method of integrals of motion of Einstein coefficients for periodic systems. (Russian) (*see* **89d:81002**)
(Izraĭlev, F. M.) *see* **Schuster, Heinz Georg, 89h:58130**
Jensen, Mogens H. Comment on: "Organization of chaos" [Phys. Rev. Lett. 59 (1987), no. 13, 1377–1380] by G. H. Gunaratne and I. Procaccia. **89h:58118**
Jones, Robert B. *see* **Felderhof, B. U., 89c:76105**
(Kaganov, M. I.) *see* **Peierls, Rudolf, 89i:81002**
(Kaganova, I. M.) *see* **Peierls, Rudolf, 89i:81002**
Kaluzhnin, L. A. *see* **Zefirov, N. S.; et al., 89a:20032**
Kaneko, Kunihiko *see* **Crutchfield, James P., 89j:76057**
Kasperkovitz, P. *see* **Foidl, Ch., 89k:70029**
Katayama, Yoshishige *see* **Terauti, Ryutaro**, (Not in MR)
Kawasaki, Kyozi *see* **Ohta, Takao, 89i:76050**
Keeler, James D. (*with* Pichler, Elgar E.; Ross, John) Noise in neural networks: thresholds, hysteresis, and neuromodulation of signal-to-noise. **89m:92022**
Keller, U. (*with* Thomas, Bernhard; Pohley, H.-J.) Comment on a genetic application of square-lattice Kauffman models. **89j:92045**
Kennedy, John W. *see* **Gross, Robert; et al., 89c:92019**
Kitney, R. I. *see* **Treiber, J., 89i:76061**
Kjær, N. J. *see* **Flyvbjerg, H., 89j:92027**
Kobayashi, Takayuki Branching processes in the presence of random immigration and representations for time series. **89j:60119**
Kõberle, R. *see* **Fontanari, J. F., 89c:92015; 89c:92016** *and* **89c:92017**
Korshunov, S. E. Quantum diffusion of vortices in 2D lattice systems. **89h:81154**
Korst, Jan H. M. *see* **Aarts, E.; et al., 89d:90086**
Kowalski, Jacek M. (*with* Ansari, Ali; Prueitt, Paul S.; Dawes, Robert L.; Gross, Gunther) On synchronization and phase locking in strongly coupled systems of planar rotators. **89j:70038**
Krauth, Werner (*with* Nadal, J.-P.; Mézard, Marc) The roles of stability and symmetry in the dynamics of neural networks. **89g:92018**
Krylov, Vasiliĭ Vilenovich *see* **Elenin, G. G.; et al., 89d:80026** *and* **89i:35116**
Kühn, Reimer *see* **Bõs, S.; et al., 89j:92023** *and* **van Hemmen, J. L.; et al., 89m:92020**
Kuroki, Shoichi *see* **Okamoto, Hisao; et al., 89g:58136**
Kürten, K. E. Correspondence between neural threshold networks and Kauffman Boolean cellular automata. **89g:92020**
Kurz, Thomas *see* **Mayer-Kress, Gottfried, 89e:76054**
van Laarhoven, P. J. M. *see* **Aarts, E.; et al., 89d:90086**
Lakhtakia, Akhlesh (*with* Messier, Russell; Varadan, Vijay K.; Varadan, Vasundara V.) Fractal sequences derived from the self-similar extensions of the Sierpiński gasket. **89e:11005**
Lallemand, P. *see* **d'Humières, D.; et al., 89j:76016**
Langer, J. S. Lectures in the theory of pattern formation. (*see* **89j:82001**)
Lebowitz, Joel L. *see* **Collet, Pierre; et al., 89d:58061**
Lega, J. *see* **Gil, L.**, (**89f:76003**)
Levchenko, E. B. *see* **Vedenov, A. A.; et al., 89h:92073**
Livi, R. (*with* Politi, A.; Ruffo, Stefano; Vulpiani, A.) Liapunov exponents in high-dimensional symplectic dynamics. **89b:58080**
Maartens, R. (*with* Maharaj, S. D.) Invariant solutions of Liouville's equation in Robertson-Walker space-times. **89b:83045b**
— *see also* **Maharaj, S. D., 89b:83045a**
Maharaj, S. D. (*with* Maartens, R.) General solution of Liouville's equation in Robertson-Walker space-times. **89b:83045a**
— *see also* **Maartens, R., 89b:83045b**
Malhamé, Roland (*with* Chong, Chee-Yee) On the statistical properties of a cyclic diffusion process arising in the modeling of thermostat-controlled electric power system loads. **89a:60244**
(Malkin, M. I.) *see* **Schuster, Heinz Georg, 89h:58130**
Mandelbrot, B. B. An introduction to multifractal distribution functions. (*see* **89j:00034**)
— *see also* **Gutzwiller, Martin C., 89b:58134**
Manneville, Paul *see* **Chaté, Hugues, 89k:76064**
Maravall Casesnoves, Darío Some new results in relativistic electrodynamics and statistical mechanics. (Spanish. English summary) **89m:78007**
Marchand, J.-P. *see* **Bebie, H., 89g:60302**
Markowich, P. A. (*with* Ringhofer, Christian A.) Stability of the linearized transient semiconductor device equations. (German and Russian summaries) **89b:35147**
Marsh, D. T. *see* **Falconer, K. J., 89h:28009**
Martin, André Collapse of systems of relativistic particles. **89j:81275**
Maugin, Gérard A. ★ Continuum mechanics of electromagnetic solids. **89i:73004**
Mayer, Dieter H. (*with* Roepstorff, G.) On the relaxation time of Gauss' continued-fraction map. II. The Banach space approach (transfer operator method). **89g:58171**
Mayer-Kress, Gottfried (*with* Kurz, Thomas) Dimension densities for turbulent systems with spatially decaying correlation functions. **89e:76054**
Mazur, Peter *see* **Geigenmüller, U., 89k:76092**
Meir, Ronny Extensions of a solvable feed forward neural network. **89e:92014**
Messier, Russell *see* **Lakhtakia, Akhlesh; et al., 89e:11005**
Mézard, Marc (*with* Nadal, J.-P.; Toulouse, G.) Solvable models of working memories. (French summary) **89i:92021**
— *see also* **Krauth, Werner; et al., 89g:92018**
Michopoulos, J. Directional instability of crack propagation with energy dissipation. **89j:73091**
— *see also* **Theocaris, P. S., 89h:73039**
Mikhaĭlov, A. S. Graph identification by simulated annealing. **89f:05139**
Miller, B. N. (*with* Ravishankar, K.) Stochastic modeling of a billiard in a gravitational field: power law behavior of Lyapunov exponents. **89k:58188**
Milošević, S. (*with* Stassinopoulos, Dimitris; Stanley, H. E.) Asymptotic form of the spectral dimension at the fractal to lattice crossover. **89m:28012**
Mori, Hazime *see* **Okamoto, Hisao; et al., 89g:58136**
van Mouche, P. Clustering and nesting of energy spectra. **89k:81050**
Muga, J. G. *see* **Veguillas, J., 89i:81137**
Nadal, J.-P. Neural networks: a path from neurobiology to psychology? **89m:92057**

— *see also* **Derrida, B., 89c:92013; Krauth, Werner; et al., 89g:92018** *and* **Mézard, Marc; et al., 89i:92021**
Nagai, Yoshinori (*with* Ichimura, Atsushi; Tsuchiya, Takashi) Pearson-walk visualization of the characteristic function of the invariant measure for 1d chaos. **89h:58129**
Nelson, David R. Vortex entanglement in high-T_c superconductors. **89c:81219**
Newell, A. C. The dynamics of patterns: a survey. **89k:76050**
Niemi, Antti J. Nonequilibrium quantum field theories. **89j:81210**
Nittmann, J. (*with* Stanley, H. E.) Nondeterministic approach to anisotropic growth patterns with continuously tunable morphology: the fractal properties of some real snowflakes. **89c:82003**
Noullez, A. *see* **d'Humières, D.; et al., 89j:76016**
Oblow, E. M. Supertracks, supertrack functions and chaos in the quadratic map. **89c:58082**
Ohta, Takao (*with* Kawasaki, Kyozi) Euclidean invariant phase dynamics for propagating pattern. **89i:76050**
Okamoto, Hisao (*with* Mori, Hazime; Kuroki, Shoichi) Global spectral structures of type III intermittent chaos. **89g:58136**
Okniński, A. Chaos in discrete maps, deterministic scattering, and nondifferentiable functions. **89k:58191**
Orłowska, B. Multilevel model of micro-macro interactions and residual stresses in physical systems. (*see* **89g:58004**)
Orszag, Steven A. *see* **Dannevik, William P.; et al., 89h:76021**
Othmer, Hans G. The mathematical aspects of temporal oscillations in reacting systems. (Russian) (*see* **89f:92003**)
Pavlov, B. S. The theory of extensions, and explicitly solvable models. (Russian) **89b:47009**
Peierls, Rudolf ★ Сюрпризы в теоретической физике. (Russian) [Surprises in theoretical physics] **89i:81002**
Peliti, Luca Statistical mechanical models of the emergence of biological order. **89i:92002**
Peyrière, Jacques *see* **Axel, Françoise, 89m:82041** *and* **Allouche, Jean-Paul, 89k:15007**
Pichler, Elgar E. *see* **Keeler, James D.; et al., 89m:92022**
Pietronero, L. (*with* Erzan, Ayşe; Evertsz, C.) Theory of Laplacian fractals: diffusion limited aggregation and dielectric breakdown model. **89i:82073**
Pilling, D. J. *see* **Timonen, J.; et al., 89j:81225**
Piro, Oreste (*with* Feingold, Mario) Diffusion in three-dimensional Liouvillian maps. **89i:58096**
Planat, Michel Bruit en $1/f$ et ondes dispersives. (English summary) [$1/f$ noise and dispersive waves] **89k:58193**
Pohley, H.-J. *see* **Keller, U.; et al., 89j:92045**
Politi, A. *see* **Livi, R.; et al., 89b:58080**
Pop, A. (*with* Săndulescu, A.; Scutaru, H.; Greiner, W.) Charge equilibration mode as an open quantum system. **89c:81186**
Popkov, Yu. S. A multiplicative algorithm for Fermi models of macrosystems. **89g:90174**
Popov, V. N. ★ Functional integrals and collective excitations. **89e:81002**
Porzio, Anna *see* **Collet, Pierre; et al., 89d:58061**
Prueitt, Paul S. *see* **Kowalski, Jacek M.; et al., 89j:70038**
Quintas, Louis V. *see* **Gross, Robert; et al., 89c:92019**
Quispel, G. R. W. (*with* Roberts, J. A. G.; Thompson, Colin J.) Erratum: "Integrable mappings and soliton equations" [Phys. Lett. A **126** (1988), no. 7, 419–421; MR 88m:58084]. **89i:58053**
Rabinovich, M. I. *see* **Gaponov-Grekhov, A. V., 89f:76054** *and* **Schuster, Heinz Georg, 89h:58130**
Ragnisco, O. *see* **Bruschi, M., 89j:58041**
Ravishankar, K. *see* **Miller, B. N., 89k:58188**
(Reĭman, A. M.) *see* **Schuster, Heinz Georg, 89h:58130**
Repaux, D. *see* **Coullet, P.; et al., 89k:58176**
Ringhofer, Christian A. *see* **Markowich, P. A., 89b:35147**
Roberts, J. A. G. *see* **Quispel, G. R. W.; et al., 89i:58053**
Roepstorff, G. *see* **Mayer, Dieter H., 89g:58171**
Ross, John *see* **Keeler, James D.; et al., 89m:92022**
Rössler, Otto E. Explicit dissipative structures. **89b:58139**
Ruffo, Stefano *see* **Livi, R.; et al., 89b:58080**
Rustamov, K. A. (*with* Rustamov, N. A.) A non-Lie algebra that is connected with the Luttinger model. (Russian. English and Azerbaijani summaries) **89k:81206**
Rustamov, N. A. *see* **Rustamov, K. A., 89k:81206**
Sakaguchi, Hidetsugu Phase transitions in coupled Bernoulli maps. **89i:58067**
Săndulescu, A. *see* **Pop, A.; et al., 89c:81186**
Schächter, François The probabilistic-informational opacity functional, Jaynes's principle, and distances to equilibrium of an evolving system. **89g:94013**
Scheingraber, H. *see* **Atmanspacher, H., 89a:93004**
Schöll, E. ★ Nonequilibrium phase transitions in semiconductors. **89c:58118**
Schulten, K. *see* **Buhmann, J.; et al., 89m:92012**
Schuster, Heinz Georg ★ Детерминированный хаос. (Russian) [Deterministic chaos] **89h:58130**
Scutaru, H. *see* **Pop, A.; et al., 89c:81186**
Shlesinger, Michael F. (*with* West, Bruce J.) $1/f$ versus $1/f^{\alpha}$ noise. (*see* **89j:00034**)
Sosnin, N. V. *see* **Elenin, G. G.; et al., 89d:80026** *and* **89i:35116**
Spigler, Renato Boundary-layer theory in the Kramers-Smoluchowski limit for the Fokker-Planck equation on a half-space. (Italian summary) **89b:35151**
Stanley, H. E. *see* **Nittmann, J., 89c:82003** *and* **Milošević, S.; et al., 89m:28012**
Stassinopoulos, Dimitris *see* **Milošević, S.; et al., 89m:28012**
Stauffer, D. Periods, damage spreading, and multifractality in cooperative systems. **89j:58083**
Stinchcombe, R. B. *see* **Bell, S. C., 89m:82042**
Swinney, Harry L. *see* **Vastano, John A., 89d:58089**
Tang, Chao *see* **Bak, Per; et al., (89j:00034)**
Terauti, Ryutaro (*with* Katayama, Yoshishige) A consideration on behaviours of solution near Turing instability point. II. (Japanese. English summary) (Not in MR)
Theocaris, P. S. (*with* Michopoulos, J.) The dynamic fracture problem—a deterministic and stochastic approach. **89h:73039**
Thomas, Bernhard *see* **Keller, U.; et al., 89j:92045**
Thomas, Harry *see* **Büttiker, Markus, 89b:73016**
Thompson, Colin J. *see* **Quispel, G. R. W.; et al., 89i:58053**
Timonen, J. (*with* Bullough, R. K.; Pilling, D. J.) Exact Bethe ansatz thermodynamics for the sine-Gordon model in classical limit: effect of long strings. (Russian summary) **89j:81225**
Toda, Morikazu ★ Theory of nonlinear lattices. **89h:58082**
Toffoli, Tommaso Information transport obeying the continuity equation. **89j:94013**
Toland, J. F. Existence and uniqueness of heteroclinic orbits for the equation $\lambda u''' + u' = f(u)$. **89j:34029**
Toulouse, G. *see* **Mézard, Marc; et al., 89i:92021**
Trach, S. S. *see* **Zefirov, N. S.; et al., 89a:20032**
Treiber, J. (*with* Kitney, R. I.) Cooperative dynamics of a coupled-oscillator system and the forced free shear layer. **89i:76061**
Tsuchiya, Takashi *see* **Nagai, Yoshinori; et al., 89h:58129**
Tuszyński, J. A. *see* **Grundland, A. M., 89e:81150**
Tvergaard, V. Mathematical modelling for nonclassical materials. (*see* **89g:58004**)
Varadan, Vasundara V. *see* **Lakhtakia, Akhlesh; et al., 89e:11005**
Varadan, Vijay K. *see* **Lakhtakia, Akhlesh; et al., 89e:11005**
Vasil′eva, A. B. *see* **Belyanin, M. P., 89h:34051**
Vastano, John A. (*with* Swinney, Harry L.) Information transport in spatiotemporal systems. **89d:58089**
Vedenov, A. A. (*with* Ezhov, A. A.; Levchenko, E. B.) Nonlinear dynamical systems with memory and functions of neuron ensembles. (Russian) **89h:92073**
Veguillas, J. (*with* Muga, J. G.) On the Lippmann-Schwinger equation in Liouville space. $\mathring{\Pi}$ subdynamics. **89i:81137**
Vulpiani, A. *see* **Livi, R.; et al., 89b:58080**
West, Bruce J. *see* **Shlesinger, Michael F., (89j:00034)**
Wiesenfeld, Kurt *see* **Bak, Per; et al., (89j:00034)**
Wreszinski, W. *see* **van Hemmen, J. L., 89j:81285**
Wright, Jill Dianne *see* **Brydges, D. C., 89k:81086**
Yakhot, Victor *see* **Dannevik, William P.; et al., 89h:76021**
Yamaki, O. *see* **Inoue, Masayoshi; et al., 89h:58117**
Yarmush, Martin L. *see* **Gross, Robert; et al., 89c:92019**
Zefirov, N. S. (*with* Kaluzhnin, L. A.; Trach, S. S.) A generalization of the concept of the wreath product of permutation groups and its application for the description of the structural formulas of chemical compounds. (Russian) **89a:20032**
Zeitouni, O. *see* **Dembo, A., 89c:92012**

83–XX Relativity

83–01 Elementary exposition; textbooks

Carfora, Mauro *see* **Ellis, G. F. R.; et al., 89m:83001**
Ellis, G. F. R. (*with* Williams, Ruth M.; Carfora, Mauro) ★ Flat and curved space-times. **89m:83001**
Heller, Michael ★ Questions to the universe. **89e:83001**
Morris, Michael S. (*with* Thorne, Kip S.) Wormholes in spacetime and their use for interstellar travel: a tool for teaching general relativity. **89d:83001**
Sexl, Roman U. (*with* Urbantke, H.) ★ Gravitation und Kosmologie. (German) [Gravitation and cosmology] **89c:83001**
Thorne, Kip S. *see* **Morris, Michael S., 89d:83001**
Tits, J. Geometrie von Raum, Zeit und Kausalität: Ein axiomatischer Zugang. [Geometry of space, time and causality: an axiomatic approach] **89b:83001**
Urbantke, H. *see* **Sexl, Roman U., 89c:83001**
Williams, Ruth M. *see* **Ellis, G. F. R.; et al., 89m:83001**

Items with secondary classifications in 83–01

Feigenbaum, Mitchell J. (*with* Mermin, N. David) $E = mc^2$. **89a:83005**
Hall, G. S. Lorentz manifolds and general relativity theory. **89j:53053**
(Linde, A. D.) *see* **Rozental′, I. L., 89c:83057**
Mermin, N. David *see* **Feigenbaum, Mitchell J., 89a:83005**
Rozental′, I. L. ★ Геометрия, динамика, Вселенная. (Russian) [Geometry, dynamics, the universe] **89c:83057**

83–02 Advanced exposition (research surveys, monographs, etc.)

Kalinowski, M. W. The program of geometrization of physics: some philosophical remarks. **89j:83001**
(Macdonald, Douglas A.) *see* **Black holes: the membrane paradigm, 89b:83002**
Price, Richard H. (*with* Thorne, Kip S.) Introduction: the membrane paradigm. (*see* **89b:83002**)
— *see also* **Black holes: the membrane paradigm, 89b:83002**
Thorne, Kip S. *see* **Price, Richard H., (89b:83002)** *and* **Black holes: the membrane paradigm, 89b:83002**
Vishveshwara, C. V. Some recent developments in general relativity. **89g:83001**

Items listed otherwise than by author

Black holes: the membrane paradigm ★ Black holes: the membrane paradigm. **89b:83002**

Items with secondary classifications in 83–02

Fuchs, Helmut (*with* Kasper, U.; Liebscher, D.-E.; Müller, Volker; Schmidt, Hans-Jürgen) The singularity problem of gravitation. **89m:83063**
Göckeler, M. (*with* Schücker, T.) ★ Differential geometry, gauge theories, and gravity. **89d:53124**

Green, Michael B. (*with* Schwarz, John H.; Witten, Edward) ★ Superstring theory. Vol. 1. **89f:81001a**

— (*with* Schwarz, John H.; Witten, Edward) ★ Superstring theory. Vol. 2. **89f:81001b**

(Hawking, S. W.) *see* **Three hundred years of gravitation, 89b:83007**

(Israel, W.) *see* **Three hundred years of gravitation, 89b:83007**

Kasper, U. *see* **Fuchs, Helmut; et al., 89m:83063**

Liebscher, D.-E. *see* **Fuchs, Helmut; et al., 89m:83063**

Logunov, A. A. ★ Лекции по теории относительности и гравитации. (Russian) [Lectures in the theory of relativity and gravitation] **89e:83057**

Müller, Volker *see* **Fuchs, Helmut; et al., 89m:83063**

(Newton, Isaac) *see* **Weinberg, Steven, (89b:83007)**

Penrose, Roger Twistors in general relativity. **89b:83067**

— (*with* Rindler, Wolfgang) ★ Spinors and space-time. Vol. 2. **89d:83010**

Rindler, Wolfgang *see* **Penrose, Roger, 89d:83010**

Schmidt, Hans-Jürgen *see* **Fuchs, Helmut; et al., 89m:83063**

Schücker, T. *see* **Göckeler, M., 89d:53124**

Schwarz, John H. *see* **Green, Michael B.; et al., 89f:81001a** *and* **89f:81001b**

Weinberg, Steven Newtonianism and today's physics. (*see* **89b:83007**)

Witten, Edward *see* **Green, Michael B.; et al., 89f:81001a** *and* **89f:81001b**

Items listed otherwise than by author

Three hundred years of gravitation ★ Three hundred years of gravitation. **89b:83007**

83-03 Historical (must also be assigned at least one classification number from Section 01)

(Einstein, Albert) *see* **Will, Clifford M., (89b:83007)**

Eisenstaedt, J. Trajectoires et impasses de la solution de Schwarzschild. [Trajectories and impasses of the Schwarzschild solution] **89f:83001**

Hittmair, O. Schrödinger's unified field theory seen 40 years later. (*see* **89m:01069**)

Israel, W. Dark stars: the evolution of an idea. (*see* **89b:83007**)

Kerszberg, Pierre On the alleged equivalence between Newtonian and relativistic cosmology. **89a:83001**

(Newton, Isaac) *see* **Will, Clifford M., (89b:83007)**

Will, Clifford M. Experimental gravitation from Newton's *Principia* to Einstein's general relativity. (*see* **89b:83007**)

Xu, Yi Fu Tensor analysis and the general theory of relativity. (Chinese) **89f:83002**

Items with secondary classifications in 83-03

(Audretsch, Jürgen) *see* **Schrödinger, Erwin, 89j:01079**

(Belloni, Lanfranco) *see* **Pais, Abraham, 89f:01074**

Bosquet, Jean Théophile De Donder et la gravifique einsteinienne. (English summary) [Théophile De Donder and Einstein's theory of gravitation] **89f:01088**

(Cannillo, Tullio) *see* **Pais, Abraham, 89f:01074**

Choquet-Bruhat, Yvonne Les travaux de André Lichnerowicz en relativité générale. [The works of André Lichnerowicz in general relativity] **89i:01068**

(De Donder, Théophile) *see* **Bosquet, Jean, 89f:01088**

(Eddington, A. S.) *see* **Bosquet, Jean, 89f:01088**

Einstein, Albert ★ Über die spezielle und die allgemeine Relativitätstheorie. (German) [On special and general relativity theory] **89m:01139**

— *see also* **Shelton, Jim, 89c:01036; Fadner, W. L., 89f:01046; Pais, Abraham, 89f:01074** *and* **Bosquet, Jean, 89f:01088**

Fadner, W. L. Did Einstein really discover "$E = mc^2$"? **89f:01046**

Gottlieb, Ioan *see* **Sofonea, L.; et al., 89h:01047**

Grabińska, Teresa (*with* Zabierowski, M.) The correspondence between the Einsteinian and Newtonian theories of gravitation. (*see* **89m:01042**)

(Hawking, S. W.) *see* **Three hundred years of gravitation, 89b:83007**

Ionescu-Pallas, N. *see* **Sofonea, L.; et al., 89h:01047**

(Israel, W.) *see* **Three hundred years of gravitation, 89b:83007**

Khlebnikov, V. I. Replacement modes in the cosmology of a two-component Friedmann universe. (Russian) **89f:83118**

(Lichnerowicz, André) *see* **Choquet-Bruhat, Yvonne, 89i:01068**

Newton-Smith, W. H. Space, time and space-time: a philosopher's view. (*see* **89m:83002**)

Pais, Abraham ★ "Sottile è il Signore…". (Italian) ["Subtle is the Lord…"] **89f:01074**

Penrose, Roger Hermann Weyl, space-time and conformal geometry. (*see* **89a:01046**)

Rindler, Wolfgang (*with* Trautman, Andrzej) Introduction. **89c:01082**

(Robinson, Ivor) *see* **Rindler, Wolfgang, 89c:01082**

Schrödinger, Erwin ★ Die Struktur der Raum-Zeit. (German) [Space-time structure] **89j:01079**

Shelton, Jim The role of observation and simplicity in Einstein's epistemology. **89c:01036**

Sofonea, L. (*with* Ionescu-Pallas, N.; Gottlieb, Ioan; Toró, T.) The relativistic conception of physics in Romania in the inter war period. Some historical-epistemological remarks. **89h:01047**

Toró, T. *see* **Sofonea, L.; et al., 89h:01047**

Trautman, Andrzej *see* **Rindler, Wolfgang, 89c:01082**

(Weyl, Hermann) *see* **Penrose, Roger, (89a:01046)**

Zabierowski, M. *see* **Grabińska, Teresa, (89m:01042)**

Items listed otherwise than by author

Biography:

Einstein, Albert *see* **Pais, Abraham, 89f:01074**

Robinson, Ivor *see* **Rindler, Wolfgang, 89c:01082**

Three hundred years of gravitation ★ Three hundred years of gravitation. **89b:83007**

83-04 Explicit machine computation and programs (not the theory of computation or programming)

Castellani, L. SUPERGRAV—a REDUCE package for Bose-Fermi exterior calculus and the construction of supergravity actions. **89k:83001**

Czapor, S. R. (*with* McLenaghan, R. G.) NP: a Maple package for performing calculations in the Newman-Penrose formalism. **89b:83003**

Holcomb, Katherine A. Vacuum axisymmetric cosmologies. **89c:83002**

MacCallum, M. A. H. Algebraic computing in relativity. **89e:83002**

McLenaghan, R. G. *see* **Czapor, S. R., 89b:83003**

Items with secondary classifications in 83-04

Åman, J. E. *see* **Rebouças, M. J., 89a:83022**

de Araujo, M. E. (*with* Skea, James E. F.) Automorphisms in action: spatially homogeneous Einstein-Maxwell plane waves. **89f:83050**

— (*with* Skea, James E. F.) The automorphism groups for Bianchi universe models and computer-aided invariant classification of metrics. **89g:83010**

Bartnik, Robert (*with* McKinnon, John) Particlelike solutions of the Einstein-Yang-Mills equations. **89e:83015**

Berger, Beverly K. Monte Carlo simulation of a quantized universe. **89f:83003**

Demaret, J. *see* **De Rop, Y., 89m:83084**

De Rop, Y. (*with* Demaret, J.) Using EXCALC to study nondiagonal multidimensional spatially homogeneous cosmologies. **89m:83084**

Evans, Charles R. An approach for calculating axisymmetric gravitational collapse. **89d:83002**

Hoenselaers, Cornelius (*with* Skea, James E. F.) Generating solutions of Einstein's field equations by typing mistakes. **89m:83017**

Letniowski, F. W. (*with* McLenaghan, R. G.) An improved algorithm for quartic equation classification and Petrov classification. **89f:83042**

McKinnon, John *see* **Bartnik, Robert, 89e:83015**

McLenaghan, R. G. *see* **Letniowski, F. W., 89f:83042**

Rebouças, M. J. (*with* Åman, J. E.) Computer-aided study of a class of Riemannian space-times. **89a:83022**

Rodionov, A. Ya. (*with* Taranov, A. Yu.) Computation of covariant derivatives of the geodetic interval with coincident arguments. **89a:53088**

Shapiro, Stuart L. (*with* Teukolsky, Saul A.) Relativistic stellar dynamics on the computer. **89c:83004**

Skea, James E. F. *see* **de Araujo, M. E., 89f:83050; 89g:83010** *and* **Hoenselaers, Cornelius, 89m:83017**

Taranov, A. Yu. *see* **Rodionov, A. Ya., 89a:53088**

Teukolsky, Saul A. *see* **Shapiro, Stuart L., 89c:83004**

83-05 Experimental papers

Items with secondary classifications in 83-05

Cook, Alan H. Experiments on gravitation. (*see* **89b:83007**)

Halpern, Leopold Erwin Schrödinger's views on gravitational physics during his last years at the University of Vienna and some research ensuing from it. **89a:01043**

Rosenblum, Arnold (*with* Treber, Manfred) Satellite test for dragging of inertial frames. **89i:83005**

(Schrödinger, Erwin) *see* **Halpern, Leopold, 89a:01043**

Treber, Manfred *see* **Rosenblum, Arnold, 89i:83005**

83-06 Proceedings, conferences, etc.

(Centrella, Joan M.) *see* **Dynamical spacetimes and numerical relativity, 89b:83004**

(Flood, Raymond) *see* **Nature of time, 89m:83002**

(Hawking, S. W.) *see* **Three hundred years of gravitation, 89b:83007**

(Isenberg, James A.) *see* **Mathematics and general relativity, 89b:83006**

(Israel, W.) *see* **Three hundred years of gravitation, 89b:83007**

(Lockwood, Michael) *see* **Nature of time, 89m:83002**

(Novello, Mario) *see* **SILARG, 89a:83002**

(Rindler, Wolfgang) *see* **Gravitation and geometry, 89b:83005**

(Robinson, Ivor) *see* **Gravitation and geometry, 89b:83005**

(Trautman, Andrzej) *see* **Gravitation and geometry, 89b:83005**

Items listed otherwise than by author

Conference:

Mathematics in General Relativity ★ Mathematics and general relativity. **89b:83006**

Contemporary Mathematics ★ Mathematics and general relativity. **89b:83006**

Dynamical spacetimes and numerical relativity ★ Dynamical spacetimes and numerical relativity. **89b:83004**

Gravitation and geometry ★ Gravitation and geometry. **89b:83005**

Mathematics and general relativity ★ Mathematics and general relativity. **89b:83006**

Nature of time ★ The nature of time. **89m:83002**

New perspectives in canonical gravity ★ New perspectives in canonical gravity. **89m:83003**

Philadelphia, PA ★ Dynamical spacetimes and numerical relativity. **89b:83004**

Rio de Janeiro ★ SILARG. VI. **89a:83002**

Santa Cruz, CA ★ Mathematics and general relativity. **89b:83006**

SILARG ★ SILARG. VI. **89a:83002**

Symposium:

Relativity and Gravitation ★ SILARG. VI. **89a:83002**

Three hundred years of gravitation ★ Three hundred years of gravitation. **89b:83007**

Workshop:

Dynamical spacetimes and numerical relativity ★ Dynamical spacetimes and numerical relativity. **89b:83004**

Items with secondary classifications in 83-06

(Baaquie, Belal E.) *see* **Conformal field theory, anomalies and superstrings, 89c:81004**

(Bongaarts, P. J. M.) *see* **Complex differential geometry and supermanifolds in strings and fields, 89g:58002**

(Chew, C. K.) *see* **Conformal field theory, anomalies and superstrings, 89c:81004**

(Gates, S. James, Jr.) *see* **Workshop: Superstrings, Cosmology, Composite Structures, 89a:81005**

(Markov, M. A.) *see* **Group-theoretic methods in physics, 89d:81001** *and* **89d:81002**
(Martini, R.) *see* **Complex differential geometry and supermanifolds in strings and fields, 89g:58002**
(Mohapatra, Rabindra Nath) *see* **Workshop: Superstrings, Cosmology, Composite Structures, 89a:81005**
(Oh, C. H.) *see* **Conformal field theory, anomalies and superstrings, 89c:81004**
(Phua, K. K.) *see* **Conformal field theory, anomalies and superstrings, 89c:81004**
(Yau, S.-T.) *see* **Mathematical aspects of string theory, 89m:81001**

Items listed otherwise than by author

College Park, MD ★ International Workshop on Superstrings, Cosmology, Composite Structures. **89a:81005**
Complex differential geometry and supermanifolds in strings and fields ★ Complex differential geometry and supermanifolds in strings and fields. **89g:58002**
Conference:
  Complex Differential Geometry and Supermanifolds in Strings and Fields ★ Complex differential geometry and supermanifolds in strings and fields. **89g:58002**
  Mathematical aspects of string theory ★ Mathematical aspects of string theory. **89m:81001**
Conformal field theory, anomalies and superstrings ★ Conformal field theory, anomalies and superstrings. **89c:81004**
Group-theoretic methods in physics ★ Теоретико-групповые методы в физике. Том 1. (Russian) [Group-theoretic methods in physics. Vol. 1] **89d:81001**
— ★ Теоретико-групповые методы в физике. Том 2. (Russian) [Group-theoretic methods in physics. Vol. 2] **89d:81002**
Jūrmala ★ Теоретико-групповые методы в физике. Том 1. (Russian) [Group-theoretic methods in physics. Vol. 1] **89d:81001**
— ★ Теоретико-групповые методы в физике. Том 2. (Russian) [Group-theoretic methods in physics. Vol. 2] **89d:81002**
Lecture Notes in Physics ★ Complex differential geometry and supermanifolds in strings and fields. **89g:58002**
Mathematical aspects of string theory ★ Mathematical aspects of string theory. **89m:81001**
San Diego, Calif. ★ Mathematical aspects of string theory. **89m:81001**
Scheveningen ★ Complex differential geometry and supermanifolds in strings and fields. **89g:58002**
Seminar:
  Group-Theoretic Methods in Physics ★ Теоретико-групповые методы в физике. Том 1. (Russian) [Group-theoretic methods in physics. Vol. 1] **89d:81001**
  — ★ Теоретико-групповые методы в физике. Том 2. (Russian) [Group-theoretic methods in physics. Vol. 2] **89d:81002**
Singapore ★ Conformal field theory, anomalies and superstrings. **89c:81004**
Workshop:
  High Energy Physics ★ Conformal field theory, anomalies and superstrings. **89c:81004**
  Superstrings, Cosmology, Composite Structures ★ International Workshop on Superstrings, Cosmology, Composite Structures. **89a:81005**

83–08 Computational methods

Abrahams, Andrew M. (*with* Evans, Charles R.) Reading off gravitational radiation waveforms in numerical relativity calculations: matching to linearized gravity. **89b:83008**
Berger, Beverly K. Monte Carlo simulation of a quantized universe. **89f:83003**
Brandt, Achi (*with* Lanza, Antonio) Multigrid in general relativity. I. Schwarzschild spacetime. **89f:83004**
Centrella, Joan M. (*with* Shapiro, Stuart L.; Evans, Charles R.; Hawley, John F.; Teukolsky, Saul A.) Test-bed calculations in numerical relativity. (*see* **89b:83004**)
Eardley, D. M. Approximate methods for black hole collisions. **89c:83003**
Evans, Charles R. An approach for calculating axisymmetric gravitational collapse. **89d:83002**
— *see also* **Abrahams, Andrew M., 89b:83008** *and* **Centrella, Joan M.; et al., (89b:83004)**
Gómez, R. (*with* Isaacson, R. A.; Welling, J. S.; Winicour, J.) Numerical relativity on null cones. **89d:83003**
Hawley, John F. *see* **Centrella, Joan M.; et al., (89b:83004)**
Isaacson, R. A. *see* **Gómez, R.; et al., 89d:83003**
Kojima, Yasufumi *see* **Nakamura, Takashi; et al., 89h:83001**
Lanza, Antonio *see* **Brandt, Achi, 89f:83004**
Matzner, Richard A. Numerical analysis of inflation. **89e:83003**
Miller, John Charles (*with* Motta, S.) Computations of spherical gravitational collapse using null slicing. **89k:83002**
Miller, Warner A. Geometric computation: null-strut geometrodynamics and the inchworm algorithm. **89g:83002**
Motta, S. *see* **Miller, John Charles, 89k:83002**
Nakamura, Takashi (*with* Oohara, Ken-ichi; Kojima, Yasufumi) General relativistic collapse to black holes and gravitational waves from black holes. **89h:83001**
Oohara, Ken-ichi *see* **Nakamura, Takashi; et al., 89h:83001**
Piran, Tsvi (*with* Stark, Richard F.) Numerical relativity, rotating gravitational collapse and gravitational radiation. (*see* **89b:83004**)
— Numerical relativity and cosmology. **89a:83003**
Schutz, B. F. Synergism between numerical and analytic relativity. **89e:83004**
Shapiro, Stuart L. (*with* Teukolsky, Saul A.) Relativistic stellar dynamics on the computer. **89c:83004**
— *see also* **Centrella, Joan M.; et al., (89b:83004)**
Stark, Richard F. *see* **Piran, Tsvi, (89b:83004)**
Stewart, J. M. Numerical cosmology. **89a:83004**
Teukolsky, Saul A. *see* **Shapiro, Stuart L., 89c:83004** *and* **Centrella, Joan M.; et al., (89b:83004)**
Van den Bergh, N. ORTHOFRAME: a MAPLE package for performing calculations in the orthonormal tetrad formalism. **89j:83002**
Welling, J. S. *see* **Gómez, R.; et al., 89d:83003**
Winicour, J. *see* **Gómez, R.; et al., 89d:83003**

Items with secondary classifications in 83–08

Anderson, James L. (*with* Hobill, D. W.) Matched analytic-numerical solutions of wave equations. **89g:83005**
Bludman, Sidney A. *see* **Schinder, Paul J.; et al., 89e:83045**
Centrella, Joan M. Nonlinear gravitational waves and inhomogeneous cosmologies. **89d:83030**
— *see also* **Dynamical spacetimes and numerical relativity, 89b:83004**
Francisco, G. (*with* Matsas, G. E. A.) Qualitative and numerical study of Bianchi IX models. **89h:83013**
Gambí Fernández, J. M. (*with* San Miguel, A.; Vicente Ruiz, Francisco) Fourth-order orbital equations in stationary weak gravitational fields. **89f:83015**
Hobill, D. W. *see* **Anderson, James L., 89g:83005**
Holcomb, Katherine A. Vacuum axisymmetric cosmologies. **89c:83002**
Kojima, Yasufumi Gravitational radiation induced by a particle moving in Kerr geometry. (*see* **89b:83004**)
Letniowski, F. W. (*with* McLenaghan, R. G.) An improved algorithm for quartic equation classification and Petrov classification. **89f:83042**
MacCallum, M. A. H. Algebraic computing in relativity. **89e:83002**
Matsas, G. E. A. *see* **Francisco, G., 89h:83013**
McLenaghan, R. G. *see* **Letniowski, F. W., 89f:83042**
Muscato, Orazio Lagrangian formalism in relativistic magnetohydrodynamics. (Italian) **89k:83046**
Oohara, Ken-ichi Gravitational radiation in a Schwarzschild geometry and quasinormal mode of a black hole. (*see* **89b:83004**)
Ove, Roger Numerical investigations of cosmic censorship on $T^3 \times \mathbf{R}$. **89g:83033**
Piran, Tsvi *see* **Schinder, Paul J.; et al., 89e:83045**
Rauber, J. D. Initial data for black hole collisions. **89d:83014**
San Miguel, A. *see* **Gambí Fernández, J. M.; et al., 89f:83015**
Schinder, Paul J. (*with* Bludman, Sidney A.; Piran, Tsvi) General-relativistic implicit hydrodynamics in polar-sliced space-time. **89e:83045**
Thornburg, Jonathan Coordinates and boundary conditions for the general relativistic initial data problem. **89b:83012**
Vicente Ruiz, Francisco *see* **Gambí Fernández, J. M.; et al., 89f:83015**

Items listed otherwise than by author

Dynamical spacetimes and numerical relativity ★ Dynamical spacetimes and numerical relativity. **89b:83004**
Philadelphia, PA ★ Dynamical spacetimes and numerical relativity. **89b:83004**
Workshop:
  Dynamical spacetimes and numerical relativity ★ Dynamical spacetimes and numerical relativity. **89b:83004**

83A05 Special relativity

Abolghasem, G. (*with* Khajehpour, M. R. H.; Mansouri, R.) How to test the special theory of relativity on the rotating earth. **89i:83001**
Aravind, P. K. Temporal order in (1 + 1)-dimensional relativity. **89c:83005**
Cao, Sheng Lin The theory of relativity and super-luminal-speeds. I. Kinematical part. **89i:83002**
Chernikov, N. A. Difficult questions of relativity theory. **89d:83004**
Chugreev, Yu. V. *see* **Logunov, A. A., 89j:83004**
Coll, Bartolomé (*with* San José, Fernando) Sur l'exponentielle des 2-formes en relativité. (English summary) [On the exponential of 2-forms in relativity] **89j:83003**
Cornille, Patrick The twin paradox and the Hafele and Keating experiment. **89h:83002**
Denur, Jack *see* **Rindler, Wolfgang, 89g:83003**
Earman, John (*with* Norton, John Daniel) What price spacetime substantivalism? The hole story. **89f:83005**
Feigenbaum, Mitchell J. (*with* Mermin, N. David) $E = mc^2$. **89a:83005**
Han, Daesoo (*with* Kim, Y. S.) Special relativity and interferometers. **89e:83005**
Hoyer, Ulrich Theorie der Lorentztransformationen. (English summary) [Theory of Lorentz transformations] **89k:83003**
Khajehpour, M. R. H. *see* **Abolghasem, G.; et al., 89i:83001**
Kim, Y. S. *see* **Han, Daesoo, 89e:83005**
Klepikov, N. P. On the uniqueness of the relativistic center of a system of events. **89f:83006**
Logunov, A. A. (*with* Chugreev, Yu. V.) Special theory of relativity and centrifuge experiments. **89j:83004**
Lu, Pei Rong The physical meaning of the general Lorentz transformation. (Chinese. English summary) (Not in MR)
Maccone, Claudio Special relativity and the Karhunen-Loève expansion of Brownian motion. (Italian and Russian summaries) **89d:83005**
Mansouri, R. *see* **Abolghasem, G.; et al., 89i:83001**
Mermin, N. David *see* **Feigenbaum, Mitchell J., 89a:83005**
Nanda, Sudarsan Topologies for Minkowski space of special relativity. **89f:83007**
Nelson, Robert A. Generalized Lorentz transformation for an accelerated, rotating frame of reference. **89c:83006**
Norton, John Daniel *see* **Earman, John, 89f:83005**
Peusner, L. Space-time "bonds", electromagnetism and graphs. **89h:83003**
Renninger, M. Die Lorentz-Transformation als Ausdruck der Superposition gegenläufiger Raum-Zeit-Beziehungen, Preisgabe des Relativitätsprinzips. (English summary) [The Lorentz transformation as an expression of opposite spacetime relations. Abandonment of the principle of relativity] **89d:83006**
Rietdijk, C. W. Four-dimensional realism and waves carrying physical data codedly as keys to understandable models. **89m:83004**
Rindler, Wolfgang (*with* Denur, Jack) A simple relativistic paradox about electrostatic energy. **89g:83003**
San José, Fernando *see* **Coll, Bartolomé, 89j:83003**
Sciama, Dennis Time "paradoxes" in relativity. (*see* **89m:83002**)
Strel'tsov, V. N. ★ К вопросу о допустимой анизотропии пространства-времени. (Russian) [On the problem of a permissible anisotropy of space-time] **89f:83008**

— (*with* Strokovskiĭ, E. A.) ★ Правило сложения 4-скоростей. (Russian) [The addition rule for 4-velocities] **89e:83006**

Strokovskiĭ, E. A. *see* **Strel'tsov, V. N., 89e:83006**

Suffern, Kevin G. The apparent shape of a rapidly moving sphere. **89i:83003**

Synge, J. L. An unperiodic concentrated sonic pulse. **89g:83004**

Teli, M. T. Generalized Lorentz transformations in six-dimensional space-time. **89i:83004**

Tiwary, Braj Kishore Refinement of Tolman's acceleration argument. (Not in MR)

Treder, H.-J. Die Galilei-Gruppe als Untergruppe der Einstein-Gruppe. [The Galilei group as subgroup of the Einstein group] **89d:83007**

Tsypkin, A. G. Construction of models of continua in the special theory of relativity. **89f:83009**

Wall, Frederick T. Discrete mechanics and special relativistic random walks. **89d:83008**

Wilhelm, H. E. Lorentz transformation as a Galilei transformation with physical length and time contractions. **89k:83004**

Items with secondary classifications in 83A05

Barucchi, G. Generalized Minkowski metric and composition algebras. (Italian and Russian summaries) **89a:17005**

Barut, A. O. Combining relativity and quantum mechanics: Schrödinger's interpretation of ψ. **89b:81013**

Catton, Philip (*with* Solomon, Graham) Discussion: uniqueness of embeddings and space-time relationalism. **89d:03006**

Cordwell, William R. *see* **Gruber, Ronald P.; et al., 89b:83023**

Donev, S. G. ★ Geodesic vector fields on Minkowski space-time and (3 + 1)-solitary waves. **89g:53028**

Finkelstein, David (*with* Rodriguez, Ernesto) Applications of quantum set theory. **89c:81010**

Gruber, Ronald P. (*with* Price, Richard H.; Matthews, Stephen M.; Cordwell, William R.; Wagner, Lawrence F.) The impossibility of a simple derivation of the Schwarzschild metric. **89b:83023**

Hale, Susan C. Spacetime and the abstract/concrete distinction. **89b:03008**

Heller, Michael ★ Questions to the universe. **89e:83001**

Ludwig, Garry Some remarks on general transformation laws for Newman-Penrose variables. **89k:83053**

Maravall Casesnoves, Darío An attempt at a unified theory of relativistic waves of matter and radiation. Fractal functions and fractal objects in mechanics and probability theory. (Spanish. English summary) **89k:78015**

Matthews, Stephen M. *see* **Gruber, Ronald P.; et al., 89b:83023**

Mocanu, C. I. Hertzian alternative to the special theory of relativity. II. Qualitative analysis of Maxwell-Hertz and Einstein-Minkowski equations. **89g:78013**

Nottale, Laurent Sur le temps de la microphysique. (English summary) [On time in microphysics] **89k:81020**

Price, Richard H. *see* **Gruber, Ronald P.; et al., 89b:83023**

Rodriguez, Ernesto *see* **Finkelstein, David, 89c:81010**

Solomon, Graham *see* **Catton, Philip, 89d:03006**

Voigt, Arnold Entwurf einer nicht-relativistischen Alternative zur Einsteinschen speziellen und allgemeinen Relativitätstheorie. [Design of a nonrelativistic alternative to Einstein's special and general relativity theory] **89a:83054**

Wagner, Lawrence F. *see* **Gruber, Ronald P.; et al., 89b:83023**

Yoshida, Takeshi Rotating Laplace-Runge-Lenz vector leading to two relativistic Kepler's equations. **89j:70012**

83B05 Observational and experimental questions

Cai, Y. Q. (*with* Papini, G.) Particle interferometry in weak gravitational fields. **89m:83005**

Clifton, Yeaton *see* **Cohen, Jeffrey Marshal; et al., 89k:83005**

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— *see also* **Cohen, Jeffrey Marshal; et al., 89k:83005**

Treber, Manfred *see* **Rosenblum, Arnold, 89i:83005**

Vucetich, Héctor *see* **Loustó, Carlos O., 89d:83009**

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(Brumberg, V. A.) *see* **Soffel, Michael H., 89m:85001**

Chugreev, Yu. V. *see* **Logunov, A. A., 89j:83004**

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Dinariev, O. Yu. (*with* Mosolov, A. B.) On a relativistic effect in the theory of superconductivity. (Russian) **89b:81261**

Dymnikova, I. G. *see* **Gnedin, N. Yu., 89k:83011**

(Einstein, Albert) *see* **Will, Clifford M., (89b:83007)**

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Mansouri, R. *see* **Abolghasem, G.; et al., 89i:83001**

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(Newton, Isaac) *see* **Will, Clifford M., (89b:83007)**

Rudenko, V. N. *see* **Bičák, Jiří, 89b:83043**

Sachs, Mendel The precessional frequency of a gyroscope in the quaternionic formulation of general relativity. **89m:83069**

Sarmiento Galán, Antonio F. *see* **Coley, Alan A., 89i:83047**

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83Cxx General relativity

Penrose, Roger (*with* Rindler, Wolfgang) ★ Spinors and space-time. Vol. 2. **89d:83010**

Rindler, Wolfgang *see* **Penrose, Roger, 89d:83010**

Items with secondary classifications in 83Cxx

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(Thorne, Kip S.) *see* **Black holes: the membrane paradigm, 89b:83002**

Items listed otherwise than by author

Black holes: the membrane paradigm ★ Black holes: the membrane paradigm. **89b:83002**

83C05 Einstein's equations

Anderson, James L. (*with* Hobill, D. W.) Matched analytic-numerical solutions of wave equations. **89g:83005**

Ashtekar, Abhay Einstein constraints in the Yang-Mills form. **89e:83007**

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— (*with* Jacobson, Ted; Smolin, Lee) A new characterization of half-flat solutions to Einstein's equation. **89f:83010**

Babu Joseph, K. (*with* Sabir, M.) Reformulation of Einstein gravity as a flat space gauge theory. **89e:83008**

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— Lagrangian formulation. (*see* **89m:83003**)

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Doktorov, E. V. (*with* Milovanov, M. V.) On a connection between Einstein-Maxwell equations and self-duality equations for gauge fields. **89k:83007**

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Friedrich, Helmut On static and radiative space-times. **89k:83008**

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Hobill, D. W. *see* **Anderson, James L., 89g:83005**

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Jacobson, Ted (*with* Smolin, Lee) Covariant action for Ashtekar's form of canonical gravity. **89e:83011**

— *see also* **Ashtekar, Abhay; et al., 89f:83010**

Khriplovich, I. B. *see* **Dolgov, A. D., 89m:83007**

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Merkulov, S. A. Twistor connection and the Palatini method. **89f:83012**

Miklashevskiĭ, I. R. Conformal geometry and the Einstein equation. (Russian) **89c:83007**

Milovanov, M. V. *see* **Doktorov, E. V., 89k:83007**

Moncrief, Vincent Reduction of Einstein's equations for cosmological spacetimes with spacelike U(1)-isometry groups. **89i:83007**

Nagayama, Haruya A note on some variational problem in general relativity. **89d:83012**

Nelson, J. E. (*with* Regge, Tullio) Lorentz invariance and the group manifold approach. **89j:83005**

Noriega, R. J. (*with* Prélat, D.; Schifini, C. G.) Scalar concomitants of a metric and a curvature form. **89d:83013**

Noutchegueme, Norbert *see* **Cagnac, Francis, 89f:83011**

Pascual-Sánchez, J. F. Einstein's equations as constitutive relations. **89h:83004**

Petrov, Alexandr Nikolaevich (*with* Popova, A. D.) On exact dynamical theories acting on a fixed background. (Russian) **89f:83013**

Popova, A. D. *see* **Petrov, Alexandr Nikolaevich, 89f:83013**

Prélat, D. *see* **Noriega, R. J.; et al., 89d:83013**

Rauber, J. D. Initial data for black hole collisions. **89d:83014**

Regge, Tullio *see* **Nelson, J. E., 89j:83005**

Rendall, Alan D. Existence and asymptotic properties of global solutions of the Robinson-Trautman equation. **89k:83009**

Reula, Oscar A configuration space for quantum gravity and solutions to the Euclidean Einstein equations in a slab region. **89b:83010**
— Initial data sets of minimal energy. **89i:83008**
Sabir, M. *see* **Babu Joseph, K., 89e:83008**
Samuel, Joseph Gravitational instantons from the Ashtekar variables. **89i:83009**
Saraykar, R. V. Structure of the space of solutions of Einstein's equations: a new variables approach. **89f:83014**
Schifini, C. G. *see* **Noriega, R. J.; et al., 89d:83013**
Schimming, Rainer Cauchy's problem for Bach's equations of general relativity. **89k:83010**
Smolin, Lee *see* **Jacobson, Ted, 89e:83011** *and* **Ashtekar, Abhay; et al., 89f:83010**
Teitelboim, Claudio (*with* Zanelli, Jorge) Dimensionally continued topological gravitation theory in Hamiltonian form. **89b:83011**
Thornburg, Jonathan Coordinates and boundary conditions for the general relativistic initial data problem. **89b:83012**
Vakaru, S. I. A twistor-gauge interpretation of the Einstein-Hilbert equations. (Russian) **89h:83005**
York, James W., Jr. Bel-Robinson gravitational superenergy and flatness. **89c:83008**
Zanelli, Jorge *see* **Teitelboim, Claudio, 89b:83011**

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Andersson, Lars Åke Momenta and reduction for general relativity. **89m:58032**
Bičák, Jiří (*with* Reilly, Paul; Winicour, J.) Boost-rotation symmetric gravitational null cone data. **89a:83031**
Bilyalov, R. F. The Einstein equations in vacuum for spaces with axial symmetry in a special coordinate system. (Russian) **89a:83027**
Bombelli, Luca The weak field limit. (*see* **89m:83003**)
Buchmüller, W. (*with* Dragon, N.) Einstein gravity from restricted coordinate invariance. **89h:83019**
Chimento, Luis P. Exact solutions of the Einstein equations including quantum effects. **89h:83025**
Chisholm, J. S. R. (*with* Farwell, R. S.) Gravity and the frame field. **89g:83038**
Choquet-Bruhat, Yvonne Problème de Cauchy pour les modèles gravitationnels avec termes de Gauss-Bonnet. (English summary) [The Cauchy problem for gravitational models with Gauss-Bonnet terms] **89i:58146**
Crnković, Čedomir (*with* Witten, Edward) Covariant description of canonical formalism in geometrical theories. (*see* **89b:83007**)
— Symplectic geometry and (super-) Poincaré algebra in geometrical theories. **89b:81120**
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Dietz, Werner New exact solutions of Einstein's field equations: gravitational force can also be repulsive! **89f:83019**
Dragon, N. *see* **Buchmüller, W., 89h:83019**
Farwell, R. S. *see* **Chisholm, J. S. R., 89g:83038**
Fukui, Takao Fundamental constants and higher-dimensional universe. **89k:83070**
Geroch, Robert (*with* Traschen, Jennie) Strings and other distributional sources in general relativity. **89d:83048**
Gleiser, Reinaldo (*with* González, Gabriela I.; Pullin, Jorge) Higher order poles in the Belinskiĭ-Zakharov inverse scattering method. **89k:83015**
González, Gabriela I. *see* **Gleiser, Reinaldo; et al., 89k:83015**
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Hickman, M. S. *see* **McIntosh, C. B. G.; et al., 89j:83022**
Jacobson, Ted New variables for canonical supergravity. **89j:83087**
Jakubiec, Andrzej (*with* Kijowski, Jerzy) On theories of gravitation with nonlinear Lagrangians. **89e:83056**
Kijowski, Jerzy *see* **Jakubiec, Andrzej, 89e:83056**
Klainerman, S. Linear and nonlinear field equations. **89d:53125**
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Lun, A. W.-C. *see* **McIntosh, C. B. G.; et al., 89j:83022**
Marathe, K. B. Generalized gravitational instantons. **89b:53114**
Mazur, Paweł O. Black hole uniqueness theorems. **89a:83041**
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Noutchegueme, Norbert Solutions globales de systèmes quasilinéaires du second ordre. [Global solutions of second-order quasilinear systems] **89b:58207**
Pullin, Jorge *see* **Gleiser, Reinaldo; et al., 89k:83015**
Reilly, Paul *see* **Bičák, Jiří; et al., 89a:83031**
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Traschen, Jennie *see* **Geroch, Robert, 89d:83048**
Winicour, J. *see* **Bičák, Jiří; et al., 89a:83031**
Witten, Edward *see* **Crnković, Čedomir, (89b:83007)**

83C10 Equations of motion

Abdil'din, M. M. ★ Механика теории гравитации Эйнштейна. (Russian) [Mechanics of Einstein's theory of gravitation] **89m:83008**
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Andrushkevich, I. E. *see* **Shishkin, G. V., 89a:83007** *and* **89a:83008**
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Bażański, S. L. (*with* Kostyukovich, N. N.) Dynamics of relative motion of charged test particles in general relativity. **89b:83013**
Borgohain, P. *see* **Krori, K. D.; et al., 89i:83010**
Carter, Brandon *see* **Abramowicz, M. A.; et al., 89m:83009**
Costa de Beauregard, O. Sur le couplage entre une particule de spin zéro de Proca et le champ gravitationnel d'Einstein. (English summary) [On the coupling of a spin zero Proca particle and Einstein's gravitational field] **89j:83006**
Damour, Thibault The problem of motion in Newtonian and Einsteinian gravity. (*see* **89b:83007**)
Das, Dipali *see* **Krori, K. D.; et al., 89i:83010**
Dymnikova, I. G. *see* **Gnedin, N. Yu., 89k:83011**
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Harvey, Alex Geodesics in Kasner universes. **89m:83010**
Kar, P. K. *see* **Krori, K. D.; et al., 89i:83010**
Kostyukovich, N. N. *see* **Bażański, S. L., 89b:83013**
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Lozdienė, A. *see* **Svirskas, K.; et al., 89j:83008**
Mason, D. P. (*with* Pooe, C. A.) Rotating rigid motion in general relativity. **89g:83008**
Miró Rodríguez, C. Unbound orbits in general relativity. (Italian summary) **89e:83012**
Mukherjee, Amitabha *see* **Lohiya, D., 89a:83006**
Paiva, F. M. (*with* Rebouças, M. J.; Teixeira, A. F. F.) Time travel in the homogeneous Som-Raychaudhuri universe. **89b:83015a**
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Pavšič, Matej Phase space action for minimal surfaces of any dimension in curved spacetime. **89b:83016**
Piragas, K. A. *see* **Svirskas, K.; et al., 89j:83008**
Pooe, C. A. *see* **Mason, D. P., 89g:83008**
Rebouças, M. J. *see* **Paiva, F. M.; et al., 89b:83015a** *and* **89b:83015b**
Ryabushko, A. P. ★ Проблема устойчивости движения тел в общей теории относительности. (Russian) [The problem of the stability of motion of bodies in general relativity] **89b:83017**
San Miguel, A. *see* **Gambí Fernández, J. M.; et al., 89f:83015**
Shishkin, G. V. (*with* Andrushkevich, I. E.) Separation of variables in the Dirac equation in general relativity. III. (Russian) **89a:83007**
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Soleng, Harald H. *see* **Grøn, Ø., 89c:83010**
Soloveĭ, L. G. *see* **Gertsenshteĭn, M. E., 89b:83014**
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Svirskas, K. (*with* Piragas, K. A.; Lozdienė, A.) The plane trajectories of spin particles in the Schwarzschild field. **89j:83008**
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Teixeira, A. F. F. *see* **Paiva, F. M.; et al., 89b:83015a** *and* **89b:83015b**
Tsoubelis, D. *see* **Stoghianidis, E., 89e:83013**
Vicente Ruiz, Francisco *see* **Gambí Fernández, J. M.; et al., 89f:83015**
Wei, Mo Zheng The electromagnetic radiation of a charged particle in a Reissner-Nordström field and its damping. (Chinese. English summary) (Not in MR)
Wu, Xue Jun (*with* Xu, Chong Ming) Null geodesic equation equivalent to the geometric optics equation. **89e:83014**
Xu, Chong Ming *see* **Wu, Xue Jun, 89e:83014**

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Ahmed, Mainuddin A gravitational field in the Plebański spacetime. **89a:83009**
Bao, Xi Liang Some results in Bianchi cosmological models. (Chinese. English summary) **89j:83009**
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Economou, Athanasios *see* **Tsoubelis, D., 89b:83030**
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Gaina, A. B. *see* **Ternov, I. M., 89j:81146**
Hartle, James B. (*with* Thorne, Kip S.; Price, Richard H.) Gravitational interaction of a black hole with distant bodies. (*see* **89b:83002**)
Haugan, Mark P. *see* **Gabriel, Marcus D.; et al., 89c:83027**
Kopeĭkin, S. M. Celestial coordinate reference systems in curved space-time. **89m:83029**
Kovalyov, Mikhail Huygens' principle on nonempty space-times. **89i:58143**
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Levinas, M. L. *see* **Domenech, G.; et al., 89e:83082**

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— *see also* **Hartle, James B.; et al.**, (**89b:83002**)

Qadir, Asghar *see* **Pervez, Amjad, 89a:83063**

Redmount, Ian H. *see* **Price, Richard H.; et al.**, (**89b:83002**)

Schäfer, Gerhard *see* **Damour, Thibault, 89k:83032**

Schutz, B. F. Synergism between numerical and analytic relativity. **89e:83004**

Shen, You Gen The wave equation in a Kerr-Newman-Kasuya background spacetime. (Chinese) **89b:83056**

Singh, Triloki (*with* Srivastava, R. S.) Newtonian analogue of force and motion of a free particle in the gravitational field of the C-metric. **89m:83023**

Srivastava, R. S. *see* **Singh, Triloki, 89m:83023**

Ternov, I. M. (*with* Gaina, A. B.) Energy spectrum of the Dirac equation in the Schwarzschild and Kerr fields. **89j:81146**

Thorne, Kip S. *see* **Hartle, James B.; et al.**, (**89b:83002**) *and* **Price, Richard H.; et al.**, (**89b:83002**)

Tsoubelis, D. (*with* Economou, Athanasios) Inertial frames and tidal forces along the symmetry axis of the Kerr spacetime. **89b:83030**

Umerez, N. *see* **Domenech, G.; et al., 89e:83082**

Voinov, A. V. Motion and rotation of celestial bodies in the post-Newtonian approximation. **89i:83030**

Walton, T. F. *see* **McLenaghan, R. G., 89h:83014**

Zhou, Ziye *see* **Gabriel, Marcus D.; et al., 89c:83027**

83C15 Closed form solutions

Ahmed, Mainuddin Electromagnetic perturbation of the NUT-de Sitter spacetime. **89d:83015**

— A gravitational field in the Plebański spacetime. **89a:83009**

Akabari, R. P. *see* **Patel, L. K.; et al., 89f:83028**

Aliev, A. N. (*with* Gal′tsov, D. V.) Energetics of magnetized black holes: effective ergospheres and superradiance. **89i:83011**

Alonso, Rodrigo (*with* Arias, Rodrigo; Zamorano, Nelson) Kerr-Schild generalized metrics. **89f:83016**

Åman, J. E. *see* **Rebouças, M. J., 89a:83022**

Anchikov, A. M. (*with* Daishev, R. A.) Generation of static solutions of a self-consistent system of Einstein-Maxwell equations. **89i:83012**

Anile, A. M. (*with* Moschetti, G.; Bogoyavlenskiĭ, O. I.) Some solutions of Einstein's equations with shock waves. **89b:83018**

Ansari, Amir Ali *see* **Lal, K. B., 89g:83012**

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Arias, Rodrigo *see* **Alonso, Rodrigo; et al., 89f:83016**

Bagrov, V. G. (*with* Obukhov, V. V.; Osetrin, K. E.) Classification of null-Stäckel electrovac metrics with cosmological constant. **89m:83011**

Bali, Raj (*with* Jain, Deepak Raj) A gravitationally nondegenerate cosmological model with expanding and shearing viscous fluid in general relativity. **89a:83010**

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Banerjee, Shyamal Kumar *see* **Roy, S. R., 89k:83020**

Bao, Xi Liang Some results in Bianchi cosmological models. (Chinese. English summary) **89j:83009**

Baranov, A. M. (*with* Paklin, N. N.) The internal source of Vaidya's solution. **89f:83017**

Bartnik, Robert (*with* McKinnon, John) Particlelike solutions of the Einstein-Yang-Mills equations. **89e:83015**

Basu, Ashis (*with* Ray, Dipankar) Exact solutions to Einstein field equations. **89d:83018**

Beesham, A. *see* **Maharaj, S. D., 89g:83013**

Berger, Sonia (*with* Hojman, Roberto; Santamarina, Jorge) General exact solutions of Einstein equations for static perfect fluids with spherical symmetry. **89a:83011**

Bhattacharyya, D. (*with* Ray, Dipankar) On "radiating Vaidya metric imbedded in de Sitter space". **89b:83019**

Bhuyan, G. B. *see* **Nayak, B. K., 89b:83028**

Bogoyavlenskiĭ, O. I. *see* **Anile, A. M.; et al., 89b:83018**

Bona Garcia, Carles (*with* Coll, Bartolomé) On the Stephani universes. **89h:83006**

Bonnor, W. B. An exact solution of Einstein's equations for two particles falling freely in an external gravitational field. **89k:83012**

Bradley, Michael Dust EPL cosmologies. **89e:83016**

Bray, Marcel Cosmologies non homogènes et anisotropes correspondant à l'équation d'état $\rho = p$. (Italian summary) [Nonhomogeneous anisotropic cosmologies corresponding to the equation of state $\rho = p$] **89b:83020**

Burlankov, D. E. Exact solutions for moving matter in general relativity. **89k:83013**

Carmeli, M. Cawley's counterexample to Dirac's conjecture as a curved spacetime. **89c:83011**

Chamorro, Alberto A Kerr cavity with a small rotation parameter embedded in Friedmann universes. **89m:83012**

Chandrasekhar, Subrahmanyan (*with* Xanthopoulos, Basilis C.) On colliding waves that develop time-like singularities: a new class of solutions of the Einstein-Maxwell equations. **89a:83012**

— On Weyl's solution for space-times with two commuting Killing fields. **89c:83012**

Coll, Bartolomé *see* **Bona Garcia, Carles, 89h:83006**

Collinson, C. D. Proper affine collineations in Robertson-Walker space-times. **89j:83010**

— *see also* **García Díaz, Alberto, 89m:83014**

Cordwell, William R. *see* **Gruber, Ronald P.; et al., 89b:83023**

Couch, W. E. *see* **Torrence, R. J., 89i:83024**

Crowley, Ronald J. *see* **Price, Richard H.; et al.**, (**89b:83002**)

Daishev, R. A. *see* **Anchikov, A. M., 89i:83012**

Dave, U. K. *see* **Patel, L. K.; et al., 89f:83028**

Davidson, W. A note on plane-symmetric static perfect-fluid spacetimes. **89c:83013**

— A nonstationary generalised Robinson-Trautman solution. **89d:83019**

Debever, R. On Einstein-Maxwell null fields in type D. **89f:83018**

Demaret, J. (*with* De Rop, Y.; Henneaux, M.) Chaos in nondiagonal spatially homogeneous cosmological models in spacetime dimensions ≤ 10. **89j:83011**

Deng, Yaobing (*with* Mannheim, Philip D.) Perfect Maxwell fluids in the standard cosmology. **89i:83013**

De Rop, Y. *see* **Demaret, J.; et al., 89j:83011**

Díaz, Mario (*with* Gleiser, Reinaldo; Pullin, Jorge) Brans-Dicke solitons as finite perturbations on perfect-fluid FRW models in general relativity. **89d:83020**

— (*with* Gleiser, Reinaldo) On the geometric structure of nonstationary multisoliton vacuum metrics with real pole trajectories on a general background. **89k:83014**

— *see also* **Gleiser, Reinaldo; et al., 89f:83020**

Dietz, Werner New exact solutions of Einstein's field equations: gravitational force can also be repulsive! **89f:83019**

Di Prisco, A. (*with* Herrera, L.; Jiménez, Juan Francisco; Galina, V.; Ibañez, J.) The Bondi metric and conformal motions. **89h:83007**

Dubey, G. S. *see* **Pandey, U. S.; et al., 89k:83019**

Dunn, K. A. (*with* Williams, Jeffrey George) de Sitter kinks. **89m:83013**

(**Duorah, H. L.**) *see* **Knutsen, Henning, 89i:83020**

Economou, Athanasios *see* **Tsoubelis, D., 89b:83030**

Elsgolts, S. L. *see* **Gutsunaev, Ts. I.; et al., 89m:83016**

Ferrari, V. (*with* Ibañez, J.) A new exact solution for colliding gravitational plane waves. **89a:83013**

— (*with* Ibañez, J.) On the collision of gravitational plane waves: a class of soliton solutions. **89a:83014**

— (*with* Pendenza, P.; Veneziano, G.) Beam-like gravitational waves and their geodesics. **89i:83014**

Fu, Li Ya *see* **Guo, Hong Jun, 89f:83022**

Gackstatter, Fritz Über Volumendefekte und Krümmung bei der Robertson-Walker-Metrik und Konstruktion kosmologischer Modelle. (English summary) [On defects of the volume and curvature of the Robertson-Walker metric and construction of cosmological models] **89b:83021**

Galina, V. *see* **Di Prisco, A.; et al., 89h:83007**

Gal′tsov, D. V. *see* **Aliev, A. N., 89i:83011**

García Díaz, Alberto Comments on a paper by [C. D.] Collinson: "The uniqueness of the Schwarzschild interior metric" [Gen. Relativity Gravitation **7** (1976), no. 5, 419–422; MR 57 #2417]. **89m:83014**

Gleiser, Reinaldo Solitonic perturbations of perfect fluid cosmological models. **89i:83015**

— (*with* Díaz, Mario; Grosso, Roberto D.) Phase transitions in perturbed stiff fluid Friedmann-Robertson-Walker cosmological models. **89f:83020**

— (*with* González, Gabriela I.; Pullin, Jorge) Higher order poles in the Belinskiĭ-Zakharov inverse scattering method. **89k:83015**

— *see also* **Díaz, Mario; et al., 89d:83020** *and* **89k:83014**

González, Gabriela I. *see* **Gleiser, Reinaldo; et al., 89k:83015**

Götz, Günter A plane-symmetric solution of Einstein's equations with perfect fluid and an equation of state $p = \gamma\rho$. **89f:83021a**

— On the cosmological "no-hair" conjecture. **89f:83021b**

Gribkov, I. V. (*with* Solov′ëv, L. S.) On the problem of the collapse of a gravitating ball. (Russian) **89b:83022**

Grøn, Ø. Poincaré stress and the Reissner-Nordström repulsion. **89d:83021**

Grosso, Roberto D. *see* **Gleiser, Reinaldo; et al., 89f:83020**

Gruber, Ronald P. (*with* Price, Richard H.; Matthews, Stephen M.; Cordwell, William R.; Wagner, Lawrence F.) The impossibility of a simple derivation of the Schwarzschild metric. **89b:83023**

Guo, Hong Jun (*with* Fu, Li Ya) A static, spherically symmetric interior solution to the gravitational field equations in Weitzenböck space-time. (Chinese. English summary) **89f:83022**

Gutsunaev, Ts. I. (*with* Man′ko, V. S.) On the gravitational field of a mass possessing a magnetic dipole moment. **89c:83014**

— (*with* Man′ko, V. S.) New static solutions of the Einstein-Maxwell equations. **89m:83015**

— (*with* Man′ko, V. S.; Elsgolts, S. L.) New exact solutions of the static Einstein-Maxwell equations. **89m:83016**

(**Hajj-Boutros, J.**) *see* **Lorenz-Petzold, Dieter, 89c:83018**

Halilsoy, Mustafa Interacting electromagnetic shock waves in general relativity. **89c:83015**

— Colliding electromagnetic shock waves in general relativity. **89h:83008**

Han, Ji Chang Radiation solutions and dust solutions of the field equations. (Chinese. English summary) **89i:83016**

— Exact solutions of the Einstein-Maxwell field equations. (Chinese. English summary) **89i:83017**

— Interior solutions of field equations for a charged sphere. (Chinese. English summary) **89i:83018**

— Static solutions of the Einstein-Maxwell field equations. (Chinese. English summary) **89j:83012**

Harriott, Tina A. (*with* Williams, Jeffrey George) Exact solutions of the Einstein field equations for a topologically nontrivial metric. **89b:83024**

Hartle, James B. (*with* Thorne, Kip S.; Price, Richard H.) Gravitational interaction of a black hole with distant bodies. (*see* **89b:83002**)

He, Zhi Qiang *see* **Tao, Fu Zhen**, (Not in MR)

Hellaby, Charles Volume matching in Tolman models. **89i:83019**

Henneaux, M. *see* **Demaret, J.; et al., 89j:83011**

Herlt, Eduard Stationary axisymmetry perfect fluid solutions in general relativity. **89k:83016**

Herrera, L. *see* **Di Prisco, A.; et al., 89h:83007**

Hoenselaers, Cornelius A note on the Weyl solutions. **89k:83017**

— (*with* Skea, James E. F.) Generating solutions of Einstein's field equations by typing mistakes. **89m:83017**

Hogan, Peter A. Embedding gravitational radiation in cosmological models. **89f:83023**

Hojman, Roberto *see* **Berger, Sonia; et al., 89a:83011**

Horský, Jan (*with* Novotný, Jan; Kučera, Jaromír) On the plane symmetry in general relativity. **89a:83015a**

— *see also* **Novotný, Jan; et al., 89a:83015b**

Huang, Wung Hong Bianchi type I cosmological model with bulk viscosity. **89m:83018**

Huang, Zhong *see* **Xu, Chong Ming; et al.**, (Not in MR)

Ibañez, J. *see* **Ferrari, V., 89a:83013; 89a:83014** *and* **Di Prisco, A.; et al., 89h:83007**

Il'ichev, A. T. *see* **Sibgatullin, N. R., 89f:83030**

Iyer, Balasubramanian Ramakrishna (*with* Vishveshwara, C. V.) Exact solutions for space-times with local rotational symmetry in which the Dirac equation separates. **89a:83016**

Jain, Deepak Raj *see* **Bali, Raj, 89a:83010** *and* **89d:83017**

Jiménez, Juan Francisco *see* **Di Prisco, A.; et al., 89h:83007**

Khan, K. A. (*with* Lodhi, R. K.) Isolation of a new class of axially symmetric stationary fields. **89b:83025**

Knutsen, Henning A comment on: "An analytical stellar model" [Classical Quantum Gravity **4** (1987), no. 6, 1691–1696; MR 88h:83022] by H. L. Duorah and R. Ray. **89i:83020**

Koijam, Manihar Singh Slowly-rotating charged viscous-fluid universes: exact solutions. **89f:83024**

Kokkotas, K. D. The geometry of the Kerr-Newman ergosurface. **89i:83021**

Kolassis, C. A. (*with* Santos, N. O.; Tsoubelis, D.) Friedmann-like collapsing model of a radiating sphere with heat flow. **89a:83017**

Koppar, S. S. (*with* Patel, L. K.) On Kerr-Schild Einstein-Maxwell fields. **89m:83019**

— (*with* Patel, L. K.) On the Kerr-Newman metric in cosmological background. **89a:83018**

Kramer, Dietrich Perfect fluids as minimal surfaces. (German summary) **89m:83020**

— Cylindrically symmetric static perfect fluids. **89a:83019**

— Two charged masses in equilibrium. **89m:83021**

Krige, J. D. (*with* Maharaj, S. D.; McKenzie, J. F.) The gravitational field of a static infinite sheet of matter. **89f:83025**

Kučera, Jaromír *see* **Horský, Jan; et al., 89a:83015a** *and* **Novotný, Jan; et al., 89a:83015b**

Kupeli, Ayse H. Vacuum solutions admitting a geodesic null congruence with shear proportional to expansion. **89c:83016**

Kuwahara, Fumiko Relativistic accretion tori around Schwarzschild black holes. **89j:83013**

Lal, K. B. (*with* Ansari, Amir Ali) On wave solutions of coupled electromagnetic and zero-rest-mass scalar fields in a generalized Peres space-time. (Turkish summary) **89g:83012**

Letelier, P. S. (*with* Verdaguer, E.) Anisotropic fluid with SU(2)-type structure in general relativity: a model of localized matter. **89c:83017**

— (*with* Oliveira, S. R.) Superposition of Weyl solutions to the Einstein equations: cosmic strings and domain walls. **89e:83017**

Levichev, A. V. Some symmetric spaces of the general theory of relativity as solutions of the Einstein-Yang-Mills equations. (Russian) (*see* **89d:81001**)

Liu, Hong Ya Exact plane-wave solutions of Einstein-Maxwell equations under the harmonic condition. **89f:83026**

Lodhi, R. K. *see* **Khan, K. A., 89b:83025**

Lorenz-Petzold, Dieter Some new Bianchi type-I perfect fluid solutions. **89a:83020**

— Comment on the two "new" classes of Bianchi type II solutions: "A method for generating exact Bianchi type II cosmological models" [J. Math. Phys. **27** (1986), no. 6, 1592–1594; MR 87i:83023] by J. Hajj-Boutros. **89c:83018**

Macdonald, Douglas A. (*with* Price, Richard H.; Suen, Wai-Mo; Thorne, Kip S.) Nonrotating and slowly rotating holes. (*see* **89b:83002**)

— *see also* **Thorne, Kip S.; et al., (89b:83002)** *and* **Price, Richard H.; et al., (89b:83002)**

Maharaj, S. D. (*with* Beesham, A.) Robertson-Walker-type universes with conformally-invariant scalar field. **89g:83013**

— On self-similar Tolman models. **89f:83027**

— *see also* **Krige, J. D.; et al., 89f:83025**

Mallett, R. L. Metric of a rotating radiating charged mass in a de Sitter space. **89b:83026**

Man'ko, V. S. *see* **Gutsunaev, Ts. I., 89c:83014; 89m:83015** *and* **89m:83016**

Mannheim, Philip D. *see* **Deng, Yaobing, 89i:83013**

Mastronikola, Katerina E. Remarks on generalised Kerr-Schild metrics. **89e:83018**

Matravers, D. R. Solutions to Einstein's field equations with Kantowski-Sachs symmetry and string dust source. **89h:83009**

Matthews, Stephen M. *see* **Gruber, Ronald P.; et al., 89b:83023**

McKenzie, J. F. *see* **Krige, J. D.; et al., 89f:83025**

McKinnon, John *see* **Bartnik, Robert, 89e:83015**

Mondaini, R. P. (*with* Nascimento, P. C.) Anisotropic universes and inflation. **89b:83027**

Moschetti, G. *see* **Anile, A. M.; et al., 89b:83018**

Mukherjee, Manash (*with* Tucker, R. W.) Relativistic elastodynamics of self-gravitating foliations. **89i:83022**

Müller, Volker (*with* Schmidt, Hans-Jürgen) Power asymptotes of homogeneous cosmological models in Einstein's theory of gravitation. **89h:83010**

Müller-Hoissen, Folkert (*with* Sippel, Reinhard) Spherically symmetric solutions of the nonminimally coupled Einstein-Maxwell equations. **89k:83018**

Nagatomo, Kiyokazu Formal power series solutions of the stationary axisymmetric vacuum Einstein equations. **89e:83019**

Narlikar, J. V. (*with* Padmanabhan, T.) The Schwarzschild solution: some conceptual difficulties. **89g:83014**

Nascimento, P. C. *see* **Mondaini, R. P., 89b:83027**

Nayak, B. K. (*with* Bhuyan, G. B.) Bianchi type V perfect fluid models with source-free electromagnetic fields. **89b:83028**

Novotný, Jan (*with* Kučera, Jaromír; Horský, Jan) On the gravitational field of a plane plate in general relativity. **89a:83015b**

— *see also* **Horský, Jan; et al., 89a:83015a**

Obukhov, V. V. *see* **Bagrov, V. G.; et al., 89m:83011**

Oliveira, S. R. *see* **Letelier, P. S., 89e:83017**

Oliver, Gabriel (*with* Verdaguer, E.) A family of inhomogeneous cosmological Einstein-Rosen metrics. **89m:83022**

Osetrin, K. E. *see* **Bagrov, V. G.; et al., 89m:83011**

Ozsváth, István All homogeneous solution of Einstein's vacuum field equations with a nonvanishing cosmological term. **89e:83020**

Padmanabhan, T. *see* **Narlikar, J. V., 89g:83014**

Paklin, N. N. *see* **Baranov, A. M., 89f:83017**

Pandey, S. N. On the Peres space-time. **89c:83019**

Pandey, U. S. (*with* Dubey, G. S.; Singh, S. N.; Singh, D. R.) Plane-symmetric magnetofluid cosmological models. **89k:83019**

Papacostas, Taxiarchis Hauser-Malhiot spaces admitting a perfect fluid energy-momentum tensor. **89e:83021**

Patel, L. K. (*with* Akabari, R. P.; Dave, U. K.) Radiating Demiański-type metrics and the Einstein-Maxwell fields. **89f:83028**

— *see also* **Koppar, S. S., 89a:83018** *and* **89m:83019**

Pendenza, P. *see* **Ferrari, V.; et al., 89i:83014**

Persides, Sotirios (*with* Xanthopoulos, Basilis C.) Some new stationary axisymmetric asymptotically flat space-times obtained from Painlevé transcendents. **89a:83021**

Ponce de León, J. Cosmological models with positive scalar spatial curvature and $\Lambda > 0$. **89e:83022**

— Gravitational repulsion in sources of the Reissner-Nordström field. **89f:83029**

— Weyl curvature tensor in static spherical sources. **89b:83029**

— *see also* **Wesson, Paul S., 89m:83024**

Prakash, S. A Bianchi type II universe filled with viscous fluid. **89d:83022**

Price, Richard H. (*with* Thorne, Kip S.; Redmount, Ian H.) Gravitational interaction of a black hole with nearby matter. (*see* **89b:83002**)

— (*with* Redmount, Ian H.; Suen, Wai-Mo; Thorne, Kip S.; Macdonald, Douglas A.; Crowley, Ronald J.) Model problems for gravitationally perturbed black holes. (*see* **89b:83002**)

— *see also* **Gruber, Ronald P.; et al., 89b:83023; Suen, Wai-Mo; et al., 89d:83024; Macdonald, Douglas A.; et al., (89b:83002); Thorne, Kip S.; et al., (89b:83002)** *and* **Hartle, James B.; et al., (89b:83002)**

Pullin, Jorge *see* **Díaz, Mario; et al., 89d:83020** *and* **Gleiser, Reinaldo; et al., 89k:83015**

Punsly, Brian Bundle structures in the Kerr space-time. **89d:83023**

Radojević, Dragi One example of Einstein spaces. (French and Serbo-Croatian summaries) (Not in MR)

Ram, Shri Bianchi type VI_0 space-times with perfect fluid source. **89i:83023**

Ray, Dipankar *see* **Bhattacharyya, D., 89b:83019** *and* **Basu, Ashis, 89d:83018**

(Ray, Ratna) *see* **Knutsen, Henning, 89i:83020**

Rebouças, M. J. (*with* Åman, J. E.) Computer-aided study of a class of Riemannian space-times. **89a:83022**

Reddy, D. R. K. A plane-symmetric universe in the presence of zero-mass scalar fields. **89a:83023**

Redmount, Ian H. *see* **Suen, Wai-Mo; et al., 89d:83024; Price, Richard H.; et al., (89b:83002)** *and* **(89b:83002)**

Ribeiro, M. B. *see* **Banerjee, Asit Kumar; et al., 89g:83011**

Roy, A. R. *see* **Varma, M. N., 89f:83032**

Roy, S. R. (*with* Banerjee, Shyamal Kumar) Some cylindrically-symmetric cosmological models in general relativity representing viscous fluid and perfect fluid with heat conduction. **89k:83020**

Santamarina, Jorge *see* **Berger, Sonia; et al., 89a:83011**

Santos, N. O. *see* **Kolassis, C. A.; et al., 89a:83017** *and* **Banerjee, Asit Kumar; et al., 89g:83011**

Schmidt, Hans-Jürgen The de Sitter spacetime as an attractor solution in fourth-order gravity. **89g:83015**

— *see also* **Müller, Volker, 89h:83010**

Senovilla, J. M. M. New LRS perfect-fluid cosmological models. **89a:83024**

Sharma, J. P. A note on an interior solution for a fluid sphere of constant gravitational mass density in general relativity. (Turkish summary) **89k:83021**

Shen, Wen Da (*with* Zhu, Shi Tong) The maximal and complete analytic extension of a globally regular Schwarzschild black hole. (Chinese. English summary) **89j:83014**

— (*with* Zhu, Shi Tong) Junction conditions on null hypersurface. **89a:83025**

Shikin, I. S. Dynamics of anisotropic cosmological model with ultrarelativistic matter, magnetic field, and fluxes of free isotropic particles. **89h:83011**

Sibgatullin, N. R. (*with* Il'ichev, A. T.) A new method for the integration of equations for axisymmetric and stationary electrovacuum fields and the construction of their general solution. (Russian) **89f:83030**

Singh, D. R. *see* **Pandey, U. S.; et al., 89k:83019**

Singh, Ghan Shyam *see* **Bali, Raj; et al., 89d:83016**

Singh, N. Ibotombi *see* **Tarachand, R. K., 89k:83022**

Singh, S. N. *see* **Pandey, U. S.; et al., 89k:83019**

Singh, Triloki (*with* Srivastava, R. S.) Newtonian analogue of force and motion of a free particle in the gravitational field of the C-metric. **89m:83023**

Sippel, Reinhard *see* **Müller-Hoissen, Folkert, 89k:83018**

Skea, James E. F. *see* **de Araujo, M. E., 89g:83010** *and* **Hoenselaers, Cornelius, 89m:83017**

Soleng, Harald H. Cosmic shear in inflationary models of Bianchi types VIII and IX. **89g:83016a**

— Erratum: "Cosmic shear in inflationary models of Bianchi types VIII and IX". **89g:83016b**

Solov'ëv, L. S. *see* **Gribkov, I. V., 89b:83022**

Srivastava, R. S. *see* **Singh, Triloki, 89m:83023**

Suen, Wai-Mo (*with* Price, Richard H.; Redmount, Ian H.) Membrane viewpoint on black holes: gravitational perturbations of the horizon. **89d:83024**

— *see also* **Macdonald, Douglas A.; et al., (89b:83002); Thorne, Kip S.; et al., (89b:83002)** *and* **Price, Richard H.; et al., (89b:83002)**

Sussman, Roberto A. On spherically symmetric shear-free perfect fluid configurations (neutral and charged). II. Equation of state and singularities. **89f:83031a**
— On spherically symmetric shear-free perfect fluid configurations (neutral and charged). III. Global view. **89f:83031b**
Tao, Fu Zhen (*with* He, Zhi Qiang) Soliton gravitational wave solutions in the case of a static centrally symmetric background gravitational field. (Chinese) (Not in MR)
Tarachand, R. K. (*with* Singh, N. Ibotombi) Cosmological viscous fluid models in the presence of electromagnetic field and zero-mass scalar field. **89k:83022**
Taub, A. H. On the collision of planar impulsive gravitational waves. **89j:83015**
Thorne, Kip S. (*with* Price, Richard H.; Macdonald, Douglas A.; Suen, Wai-Mo; Zhang, Xiao-He) Rapidly rotating holes. (*see* **89b:83002**)
— *see also* **Macdonald, Douglas A.; et al., (89b:83002); Hartle, James B.; et al., (89b:83002); Price, Richard H.; et al., (89b:83002)** *and* **(89b:83002)**
Torrence, R. J. (*with* Couch, W. E.) Note on Kantowski-Sachs spacetimes. **89i:83024**
Tsoubelis, D. (*with* Economou, Athanasios) Inertial frames and tidal forces along the symmetry axis of the Kerr spacetime. **89b:83030**
— Cylindrical shells of cosmic strings. **89k:83023**
— *see also* **Kolassis, C. A.; et al., 89a:83017**
Tucker, R. W. *see* **Mukherjee, Manash, 89i:83022**
Tuckey, Philip A. (*with* Williams, Ruth M.) A 3 + 1 Regge calculus model of the Taub universe. **89d:83025**
Tyagi, Atul *see* **Bali, Raj; et al., 89d:83016**
Varma, M. N. (*with* Roy, A. R.) Robertson-Walker Lyttleton-Bondi universe with cosmological constant. **89f:83032**
Veneziano, G. *see* **Ferrari, V.; et al., 89i:83014**
Verdaguer, E. *see* **Letelier, P. S., 89c:83017** *and* **Oliver, Gabriel, 89m:83022**
Vishveshwara, C. V. *see* **Iyer, Balasubramanian Ramakrishna, 89a:83016**
Wagner, Lawrence F. *see* **Gruber, Ronald P.; et al., 89b:83023**
Wang, Xing Xiang A class of conformally flat solutions for a charged sphere in general relativity. **89a:83026**
— A new interior Reissner-Nordström solution. **89j:83016**
Wang, Yong Cheng Taub space-time described by the imaginary Weyl coordinates. (Chinese. English summary) **89d:83026**
Wei, Mo Zheng The radial motion of a particle in a static spherically symmetric gravitational field and the nature of its horizon. (Chinese. English summary) (Not in MR)
Wesson, Paul S. (*with* Ponce de León, J.) Cosmological solution of Einstein's equations with uniform density and nonuniform pressure. **89m:83024**
Williams, Jeffrey George *see* **Harriott, Tina A., 89b:83024** *and* **Dunn, K. A., 89m:83013**
Williams, Ruth M. *see* **Tuckey, Philip A., 89d:83025**
Wu, Xue Jun *see* **Xu, Chong Ming; et al.,** (Not in MR)
Xanthopoulos, Basilis C. *see* **Chandrasekhar, Subrahmanyan, 89a:83012** *and* **Persides, Sotirios, 89a:83021**
Xu, Chong Ming (*with* Wu, Xue Jun; Huang, Zhong) A new spherically symmetric interior solution containing a cosmological term Λ. (Chinese) (Not in MR)
Xu, Xiao Hai The Petrov type of the Ernst metric. (Chinese. English summary) **89f:83033**
Zamorano, Nelson *see* **Alonso, Rodrigo; et al., 89f:83016**
Zhang, Xiao-He *see* **Thorne, Kip S.; et al., (89b:83002)**
Zhou, Qi Huang Null frame and its application. (Chinese summary) (Not in MR)
— The exterior metric approach to a charged axially symmetric celestial body—the fourth-order approximate solutions of Einstein-Maxwell equations. **89k:83024**
Zhu, Shi Tong *see* **Shen, Wen Da, 89a:83025** *and* **89j:83014**

Items with secondary classifications in 83C15

Abe, Mitsuo (*with* Ichinose, Shoichi; Nakanishi, Noboru) Kerr metric, de Donder condition and gravitational energy density. **89c:83028**
Anile, A. M. Similarity solutions of the Einstein equations of cosmological interest. (Italian. English summary) **89b:83031**
Assad, M. J. D. (*with* de Lima, J. A. Sales) General and unified solution for perfect fluid homogeneous and isotropic cosmological models. **89f:83034**
Bali, Raj (*with* Tyagi, Atul) Stiff magnetofluid cosmological model. **89e:83085**
Berman, Marcelo Samuel A special anisotropic model of the universe. **89f:83111**
Bičák, Jiří Radiative properties of space-times with the axial and boost symmetries. **89f:83046**
Bishop, N. T. The event horizons of two Schwarzschild black holes. **89h:83018**
Borgohain, P. *see* **Krori, K. D.; et al., 89i:83010**
Brandt, Achi (*with* Lanza, Antonio) Multigrid in general relativity. I. Schwarzschild spacetime. **89f:83004**
Castagnino, Mario (*with* el Hasi, C. D.; Mazzitelli, F. D.; Paz, J. P.) On the Dirac equation in anisotropic backgrounds. **89h:81084**
Chandrasekhar, Subrahmanyan The two-centre problem in general relativity: the scattering of radiation by two extreme Reissner-Nordström black-holes. **89m:83032**
Chellathurai, V. *see* **Kulkarni, Ravi; et al., 89m:83039**
Collins, C. B. *see* **Lang, J. M., 89j:83020**
Comtet, A. (*with* Gibbons, Gary) Bogomol'nyĭ bounds for cosmic strings. **89h:83042**
Dadhich, Naresh *see* **Kulkarni, Ravi; et al., 89m:83039**
Das, Dipali *see* **Krori, K. D.; et al., 89i:83010**
Díaz, Mario (*with* Gleiser, Reinaldo; Pullin, Jorge) No-hair theorems and solitonic instabilities of de Sitter spacetimes. **89i:83031**
Ernst, Frederick J. (*with* García Díaz, Alberto; Hauser, Isidore) Colliding gravitational plane waves with noncollinear polarization. II. **89c:83021**
— *see also* **Hauser, Isidore, 89e:83024**
Ferrari, V. (*with* Ibañez, J.) Type-*D* solutions describing the collision of plane-fronted gravitational waves. **89f:83048**
García Díaz, Alberto *see* **Ernst, Frederick J.; et al., 89c:83021**
Gibbons, Gary *see* **Comtet, A., 89h:83042**
Gleiser, Reinaldo *see* **Díaz, Mario; et al., 89i:83031**
Harvey, Alex Geodesics in Kasner universes. **89m:83010**
el Hasi, C. D. *see* **Castagnino, Mario; et al., 89h:81084**
Hauser, Isidore (*with* Ernst, Frederick J.) A new proof of an old conjecture. **89e:83024**
— *see also* **Ernst, Frederick J.; et al., 89c:83021**
Hou, Bo Yu (*with* Li, Wei⁷) New symmetries in stationary, axially symmetric Einstein-Maxwell fields. (Chinese. English summary) **89f:83052**
Ibañez, J. *see* **Ferrari, V., 89f:83048**
Ichinose, Shoichi *see* **Abe, Mitsuo; et al., 89c:83028**
Kar, P. K. *see* **Krori, K. D.; et al., 89i:83010**
Kasai, Masumi The triangulation in a perturbed Friedmann universe. **89f:83117**
Krisch, J. P. On the classification of vacuum zero Simon tensor solutions in relativity. **89f:83041**
Krori, K. D. (*with* Borgohain, P.; Kar, P. K.; Das, Dipali) Exact scalar and spinor solutions in some rotating universes. **89i:83010**
Kulkarni, Ravi (*with* Chellathurai, V.; Dadhich, Naresh) The effective mass of the Kerr spacetime. **89m:83039**
Lang, J. M. (*with* Collins, C. B.) Observationally homogeneous shear-free perfect fluids. **89j:83020**
Lanza, Antonio *see* **Brandt, Achi, 89f:83004**
Leaver, Edward W. Erratum: "Spectral decomposition of the perturbation response of the Schwarzschild geometry" [Phys. Rev. D (3) **34** (1986), no. 2, 384–408; MR 87g:83057]. **89h:83016**
Leroy, Jules A radiative, twisting, type II, aligned Einstein-Maxwell field. **89e:83042**
Li, Wei⁷ *see* **Hou, Bo Yu, 89f:83052**
de Lima, J. A. Sales *see* **Assad, M. J. D., 89f:83034**
Lorenz-Petzold, Dieter Higher-dimensional Taub-NUT-de Sitter solutions. **89b:83081**
Macías, A. (*with* Obregón, O.) (Super) cosmological solution for the Kasner model. **89k:83078**
Magnon, A. M. R. Ratios of magnetic charge to charge and of magnetic mass to mass. **89i:83032**
Masood-ul-Alam, A. K. M. A proof of the uniqueness of static stellar models with small $d\rho/dp$. **89h:83027**
Mazzitelli, F. D. *see* **Castagnino, Mario; et al., 89h:81084**
Nahmad-Achar, E. (*with* Schutz, B. F.) Pseudotensors in asymptotically curvilinear coordinates. **89b:83047**
Nakanishi, Noboru *see* **Abe, Mitsuo; et al., 89c:83028**
Obregón, O. *see* **Macías, A., 89k:83078**
Papadopoulos, Demetrios Some properties of the scalar field in a Schwarzschild space-time. (Italian and Russian summaries) **89j:83007**
Paz, J. P. *see* **Castagnino, Mario; et al., 89h:81084**
Price, Richard H. *see* **Thorne, Kip S.; et al., (89b:83002)**
Pullin, Jorge *see* **Díaz, Mario; et al., 89i:83031**
Ruback, Peter A new uniqueness theorem for charged black holes. **89i:83027**
Samuel, Joseph Gravitational instantons from the Ashtekar variables. **89i:83009**
Schutz, B. F. *see* **Nahmad-Achar, E., 89b:83047**
Senovilla, J. M. M. Stationary axisymmetric perfect-fluid metrics with $q + 3p =$ const. **89c:83024**
Szydłowski, Marek The problem of chaotic behaviour in a homogeneous arbitrarily dimensional cosmology. **89c:83048**
Tello-Llanos, R. A. Curvature and conformal collineations in presence of matter. **89j:83025**
Thorne, Kip S. (*with* Zurek, Wojciech H.; Price, Richard H.) The thermal atmosphere of a black hole. (*see* **89b:83002**)
Turkowski, Paweł A multidimensional extension of the Bianchi type-IX cosmology. **89d:83070**
Tyagi, Atul *see* **Bali, Raj, 89e:83085**
Vaidya, P. C. Geometry of expanding universes. **89k:83084**
Wolf, Carl Anton Inflation as a generic property of curvature dependent bulk viscosity in any number of space-time dimensions. **89c:83059**
Yurtsever, Ulvi Colliding almost-plane gravitational waves: colliding plane waves and general properties of almost-plane-wave spacetimes. **89m:83037**
Zurek, Wojciech H. *see* **Thorne, Kip S.; et al., (89b:83002)**

83C20 Classes of solutions

Anile, A. M. Similarity solutions of the Einstein equations of cosmological interest. (Italian. English summary) **89b:83031**
Assad, M. J. D. (*with* de Lima, J. A. Sales) General and unified solution for perfect fluid homogeneous and isotropic cosmological models. **89f:83034**
Bagrov, V. G. (*with* Obukhov, V. V.; Osetrin, K. E.) Stäckel spaces of an electrovacuum of type (1, 1). (Russian) **89f:83035**
— (*with* Evseevich, A. A.; Obukhov, V. V.; Osetrin, K. E.) Stäckel spaces in an electrovacuum with isotropic complete sets. Integration of field equations for metrics that generalize spaces of type (1, 1). (Russian) **89i:83025**
— (*with* Obukhov, V. V.; Osetrin, K. E.) Stäckel electrovacuum spaces with isotropic complete sets of type (1.1). **89k:83025**
Banerjee, Asit Kumar (*with* Sanyal, Abhik Kumar) Irrotational Bianchi V viscous fluid cosmology with heat flux. **89b:83032**
Bilyalov, R. F. The Einstein equations in vacuum for spaces with axial symmetry in a special coordinate system. (Russian) **89a:83027**
Bona Garcia, Carles (*with* Coll, Bartolomé) Classification of the space-times admitting a constant curvature synchronization. **89c:83020**
— (*with* Massó, J.) Harmonic synchronizations of spacetime. **89j:83017**
Breitenlohner, Peter (*with* Maison, Dieter; Gibbons, Gary) 4-dimensional black holes from Kaluza-Klein theories. **89j:83018**
Calvão, M. O. (*with* Rebouças, M. J.; Teixeira, A. F. F.; Monteiro S., W., Jr.) Notes on a class of homogeneous space-times. **89f:83036**
Chinea, F. J. Twisting, type-*N* vacuum gravitational fields with symmetries. **89g:83017**
Coll, Bartolomé *see* **Bona Garcia, Carles, 89c:83020**
Collins, C. B. *see* **Lang, J. M., 89j:83020**
Cruzate, Juan (*with* Díaz, Mario; Gleiser, Reinaldo; Pullin, Jorge) Soliton collision in cosmologies with matter. **89f:83037**
Díaz, Mario *see* **Cruzate, Juan; et al., 89f:83037**
Dyer, C. C. (*with* McVittie, G. C.; Oattes, L. M.) A class of spherically symmetric solutions with conformal Killing vectors. **89b:83033**

Ellis, G. F. R. (*with* McCarthy, Patrick J.) Arnol'd deformation of Petrov types. **89h:83012**

Ernst, Frederick J. (*with* García Díaz, Alberto; Hauser, Isidore) Colliding gravitational plane waves with noncollinear polarization. II. **89c:83021**

— (*with* García Díaz, Alberto; Hauser, Isidore) Colliding gravitational plane waves with noncollinear polarization. III. **89k:83026**

— *see also* **Hauser, Isidore, 89e:83024**

Evseevich, A. A. *see* **Bagrov, V. G.; et al., 89i:83025**

Finley, J. D., III Toward real-valued $\mathscr{HH}$ spaces: twisting type N. **89f:83038**

Francisco, G. (*with* Matsas, G. E. A.) Qualitative and numerical study of Bianchi IX models. **89h:83013**

García Díaz, Alberto (*with* Tellez Ulloa, Jorge) Stationary axisymmetric rotating perfect fluid type D solutions. **89f:83039**

— (*with* Hauser, Isidore) Type-D rigidly rotating perfect fluid solutions. **89a:83028**

— The $\bar{S}(a,b,c/m)$ metrics interpreted as colliding wave solutions. **89f:83040**

— *see also* **Ernst, Frederick J.; et al., 89c:83021** *and* **89k:83026**

Gibbons, Gary (*with* Olivier, Dominique; Ruback, Peter; Valent, G.) Multicentre metrics and harmonic superspace. **89b:83034**

— *see also* **Breitenlohner, Peter; et al., 89j:83018**

Gleiser, Reinaldo *see* **Cruzate, Juan; et al., 89f:83037**

Goode, S. W. *see* **Hewitt, C. G.; et al., 89j:83019**

Gutsunaev, Ts. I. (*with* Man'ko, V. S.) On a family of solutions of the Einstein-Maxwell equations. **89e:83023**

Hageman, T. (*with* van Leeuwen, W. A.) Viscous Bianchi type II universes with intergalactic magnetic field. **89b:83035**

Halilsoy, Mustafa Studies in space-times admitting two spacelike Killing vectors. **89b:83036**

Hall, G. S. (*with* Kay, W.) Curvature structure in general relativity. **89c:83022**

— (*with* Kay, W.) Holonomy groups in general relativity. **89c:83023**

Hauser, Isidore (*with* Ernst, Frederick J.) A new proof of an old conjecture. **89e:83024**

— *see also* **García Díaz, Alberto, 89a:83028; Ernst, Frederick J.; et al., 89c:83021** *and* **89k:83026**

Herlt, Eduard Reduktion der Einsteinschen Feldgleichungen für Typ-N-Vakuum-Lösungen mit Killingvektor und homothetischer Gruppe auf eine gewöhnliche Differentialgleichung 3. Ordnung für eine reelle Funktion. (English and Russian summaries) [Reduction of the Einstein field equations for type-N vacuum solutions with Killing vector and homothety group to a third-order ordinary differential equation for a real function] **89d:83027**

Hewitt, C. G. (*with* Wainwright, J.; Goode, S. W.) Qualitative analysis of a class of inhomogeneous self-similar cosmological models. **89j:83019**

Hickman, M. S. *see* **McIntosh, C. B. G.; et al., 89j:83022** *and* **89k:83029**

Kay, W. *see* **Hall, G. S., 89c:83022** *and* **89c:83023**

Koppar, S. S. *see* **Patel, L. K., 89j:83024**

Krasiński, Andrzej Shear-free normal cosmological models. **89k:83027**

Krisch, J. P. On the classification of vacuum zero Simon tensor solutions in relativity. **89f:83041**

Kudrya, Yu. N. Geometric observables and the classification of electrovacuum gravitational fields of type D. (Russian) **89i:83026**

Kupeli, Ayse H. Generalised Kerr-Schild transformation from vacuum backgrounds to Einstein-Maxwell spacetimes. **89d:83028**

Kyriakopoulos, E. New series of asymptotically flat axisymmetric and stationary gravitational solutions. **89k:83028**

— A class of solutions of Einstein's equations for the interior of a rigidly rotating perfect fluid. **89m:83025**

— On generating new solutions of the Ernst equation from old solutions. **89m:83026**

Lang, J. M. (*with* Collins, C. B.) Observationally homogeneous shear-free perfect fluids. **89j:83020**

van Leeuwen, W. A. *see* **Hageman, T., 89b:83035** *and* **Salvati, G. A. Q.; et al., 89f:83045**

Letniowski, F. W. (*with* McLenaghan, R. G.) An improved algorithm for quartic equation classification and Petrov classification. **89f:83042**

Levichev, A. V. Chronogeometry of an electromagnetic wave defined by a bi-invariant metric on the oscillator group. (Russian) **89a:83029**

de Lima, J. A. Sales *see* **Assad, M. J. D., 89f:83034**

Lukács, B. (*with* Perjés, Z.; Sebestyén, Á.; Sparling, G. A. J.) Conformally flat 3-spaces with axial symmetry. **89f:83043**

Lun, A. W.-C. (*with* McIntosh, C. B. G.; Singleton, D. B.) Expanding algebraically degenerate vacuum spaces with homothetic motions. **89j:83021**

— *see also* **McIntosh, C. B. G.; et al., 89j:83022**

Maison, Dieter *see* **Breitenlohner, Peter; et al., 89j:83018**

Man'ko, V. S. *see* **Gutsunaev, Ts. I., 89e:83023**

Martín-Pascual, F. (*with* Senovilla, J. M. M.) Petrov types D and II perfect-fluid solutions in generalized Kerr-Schild form. **89f:83044**

Massó, J. *see* **Bona Garcia, Carles, 89j:83017**

Matsas, G. E. A. *see* **Francisco, G., 89h:83013**

McCarthy, Patrick J. *see* **Ellis, G. F. R., 89h:83012**

McIntosh, C. B. G. (*with* Hickman, M. S.; Lun, A. W.-C.) Complex relativity and real solutions. V. The flat space background. **89j:83022**

— (*with* Hickman, M. S.) Single Kerr-Schild metrics: a double view. **89k:83029**

— *see also* **Lun, A. W.-C.; et al., 89j:83021**

McLenaghan, R. G. (*with* Walton, T. F.) An explicit determination of the nonselfadjoint wave equations on curved space-time that satisfy Huygens' principle. I. Petrov type N background space-times. (French summary) **89h:83014**

— *see also* **Letniowski, F. W., 89f:83042**

McVittie, G. C. *see* **Dyer, C. C.; et al., 89b:83033**

Monteiro S., W., Jr. *see* **Calvão, M. O.; et al., 89f:83036**

Nahmad-Achar, E. On generalized Kerr-Schild transformations. **89j:83023**

Oattes, L. M. *see* **Dyer, C. C.; et al., 89b:83033**

Obukhov, V. V. *see* **Bagrov, V. G.; et al., 89f:83035; 89i:83025** *and* **89k:83025**

Olivier, Dominique *see* **Gibbons, Gary; et al., 89b:83034**

Osetrin, K. E. *see* **Bagrov, V. G.; et al., 89f:83035; 89i:83025** *and* **89k:83025**

Patel, L. K. (*with* Koppar, S. S.) Rotating Bianchi type II, VIII and IX universes with an electromagnetic field. **89j:83024**

Patra, Amar Chandra (*with* Ray, Dipankar) Gauge-invariant perturbations in anisotropic homogeneous cosmological models. **89m:83027**

Perjés, Z. *see* **Lukács, B.; et al., 89f:83043**

Pullin, Jorge *see* **Cruzate, Juan; et al., 89f:83037**

Ray, Dipankar *see* **Patra, Amar Chandra, 89m:83027**

Rebouças, M. J. *see* **Calvão, M. O.; et al., 89f:83036**

Robinson, David C. Half-flat solutions of Einstein's equation and hyper-Kähler structures. (*see* **89m:83003**)

Rosquist, Kjell *see* **Uggla, Claes, 89h:83015**

Ruback, Peter A new uniqueness theorem for charged black holes. **89i:83027**

— *see also* **Gibbons, Gary; et al., 89b:83034**

Ryan, Michael P., Jr. Plane-symmetric cosmologies—an overview. **89d:83029**

Salvati, G. A. Q. (*with* Schelling, E. E.; van Leeuwen, W. A.) Homogeneous viscous universes with magnetic field. II. Bianchi type I spaces. **89f:83045**

Sanyal, Abhik Kumar *see* **Banerjee, Asit Kumar, 89b:83032**

Schelling, E. E. *see* **Salvati, G. A. Q.; et al., 89f:83045**

Sebestyén, Á. *see* **Lukács, B.; et al., 89f:83043**

Senovilla, J. M. M. Stationary axisymmetric perfect-fluid metrics with $q + 3p = \text{const.}$ **89c:83024**

— *see also* **Martín-Pascual, F., 89f:83044**

Singleton, D. B. *see* **Lun, A. W.-C.; et al., 89j:83021**

Sparling, G. A. J. *see* **Lukács, B.; et al., 89f:83043**

Teixeira, A. F. F. *see* **Calvão, M. O.; et al., 89f:83036**

Tellez Ulloa, Jorge *see* **García Díaz, Alberto, 89f:83039**

Tello-Llanos, R. A. Curvature and conformal collineations in presence of matter. **89j:83025**

Torres del Castillo, G. F. The Teukolsky-Starobinsky identities in type D vacuum backgrounds with cosmological constant. **89g:83018**

Uggla, Claes (*with* Rosquist, Kjell) Asymptotic cosmological solutions: orthogonal Bianchi type I, III, IV, VI and VII models. **89h:83015**

Valent, G. *see* **Gibbons, Gary; et al., 89b:83034**

Van den Bergh, N. Comment on conformally Ricci-flat perfect fluids of Petrov-type N. **89b:83037**

— A class of inhomogeneous cosmological models with separable metrics. **89b:83038**

— Nonrotating and nonexpanding perfect fluids. **89b:83039**

Verdaguer, E. Plane waves and soliton solutions. (Italian and Russian summaries) **89j:83026**

Wainwright, J. *see* **Hewitt, C. G.; et al., 89j:83019**

Walton, T. F. *see* **McLenaghan, R. G., 89h:83014**

Xanthopoulos, Basilis C. Cosmic strings coupled with gravitational and electromagnetic waves. **89a:83030**

Yurtsever, Ulvi New family of exact solutions for colliding plane gravitational waves. **89k:83030**

Items with secondary classifications in 83C20

Abbott, L. F. (*with* Traschen, I.; Xu, Rui-Ming) Integral constraints in general relativity. **89b:83062**

Abramowicz, M. A. (*with* Carter, Brandon; Lasota, J. P.) Optical reference geometry for stationary and static dynamics. **89m:83009**

Accioly, A. J. (*with* Matsas, G. E. A.) Are there causal vacuum solutions with the symmetries of the Gödel universe in higher-derivative gravity? **89j:83056**

Åman, J. E. *see* **Rebouças, M. J., 89a:83022**

de Araujo, M. E. (*with* Skea, James E. F.) Automorphisms in action: spatially homogeneous Einstein-Maxwell plane waves. **89f:83050**

Bagrov, V. G. (*with* Obukhov, V. V.; Osetrin, K. E.) Classification of null-Stäckel electrovac metrics with cosmological constant. **89m:83011**

Barrow, John D. *see* **Burd, A. B., 89i:83067**

Beesham, A. A note on the Birkhoff-type theorem in the scale-covariant theory of gravitation. **89k:83059**

Bugalho, M. H. Orthogonality transitivity and cosmologies with a nonabelian two-parameter isometry group. **89e:83033**

Burd, A. B. (*with* Barrow, John D.) Inflationary models with exponential potentials. **89i:83067**

Carter, Brandon *see* **Abramowicz, M. A.; et al., 89m:83009**

Chandrasekhar, Subrahmanyan On Weyl's solution for space-times with two commuting Killing fields. **89c:83012**

Chinea, F. J. Symmetries in tetrad theories. **89d:83032**

Chmielowski, Piotr (*with* Page, Don N.) Probability of Bianchi type-I inflation. **89k:83081**

Collins, C. B. Homogeneous and hypersurface-homogeneous shear-free perfect fluids in general relativity. **89m:83060**

(**Collinson, C. D.**) *see* **García Díaz, Alberto, 89m:83014**

da Costa, José Manuel N. *see* **Hall, G. S., 89m:83038**

Couch, W. E. *see* **Torrence, R. J., 89k:83045**

Davidson, W. A nonstationary generalised Robinson-Trautman solution. **89d:83019**

Dehnen, H. *see* **Rose, B.; et al., 89m:83031**

Díaz, Mario (*with* Gleiser, Reinaldo) On the geometric structure of nonstationary multisoliton vacuum metrics with real pole trajectories on a general background. **89k:83014**

Doi, Hideo Nonlinear equations on a Lie group. **89e:58019**

Ferrari, V. (*with* Ibañez, J.) Type-D solutions describing the collision of plane-fronted gravitational waves. **89f:83048**

Fukui, Takao Fundamental constants and higher-dimensional universe. **89k:83070**

Gackstatter, Fritz Über Volumendefekte und Krümmung bei der Robertson-Walker-Metrik und Konstruktion kosmologischer Modelle. (English summary) [On defects of the volume and curvature of the Robertson-Walker metric and construction of cosmological models] **89b:83021**

García Díaz, Alberto Comments on a paper by [C. D.] Collinson: "The uniqueness of the Schwarzschild interior metric" [Gen. Relativity Gravitation 7 (1976), no. 5, 419–422; MR 57 #2417]. **89m:83014**

Garriga, J. (*with* Verdaguer, E.) Testing the quality factor with some approximate solutions to Einstein's equations. **89m:83028**

Gleiser, Reinaldo *see* **Díaz, Mario, 89k:83014**

Götz, Günter A plane-symmetric solution of Einstein's equations with perfect fluid and an equation of state $p = \gamma\rho$. **89f:83021a**

— On the cosmological "no-hair" conjecture. **89f:83021b**

Hall, G. S. The classification of second order symmetric tensors in general relativity theory. **89g:53046**

— (*with* da Costa, José Manuel N.) Affine collineations in space-time. **89m:83038**

Herlt, Eduard Stationary axisymmetry perfect fluid solutions in general relativity. **89k:83016**

Hou, Bo Yu (*with* Li, Wei^7) Generating functions with new hidden symmetries for cylindrically symmetric gravitational fields. **89k:83039**

Ibañez, J. *see* **Ferrari, V., 89f:83048**

Iyer, Balasubramanian Ramakrishna (*with* Vishveshwara, C. V.) Exact solutions for space-times with local rotational symmetry in which the Dirac equation separates. **89a:83016**

Kamran, N. (*with* McLenaghan, R. G.) Separation of variables for higher spin, zero rest-mass field equations on type *D* vacuum backgrounds with cosmological constant. **89g:83020**

Kimura, Toshiei *see* **Ohta, Tadayuki, 89h:83017**

Kupeli, Ayse H. Vacuum solutions admitting a geodesic null congruence with shear proportional to expansion. **89c:83016**

Lasota, J. P. *see* **Abramowicz, M. A.; et al., 89m:83009**

Letelier, P. S. (*with* Verdaguer, E.) Anisotropic fluid with SU(2)-type structure in general relativity: a model of localized matter. **89c:83017**

— (*with* Oliveira, S. R.) Superposition of Weyl solutions to the Einstein equations: cosmic strings and domain walls. **89e:83017**

Li, Wei^7 *see* **Hou, Bo Yu, 89k:83039**

Marathe, K. B. Generalized gravitational instantons. **89b:53114**

Mason, L. J. *see* **Woodhouse, N. M. J., 89j:83034**

Matsas, G. E. A. *see* **Accioly, A. J., 89j:83056**

McLenaghan, R. G. *see* **Kamran, N., 89g:83020**

Mukherjee, Manash (*with* Tucker, R. W.) Relativistic elastodynamics of self-gravitating foliations. **89i:83022**

Neugebauer, Gernot Chiral fields as minimal surfaces. (German and Russian summaries) **89b:53115**

Obukhov, V. V. *see* **Bagrov, V. G.; et al., 89m:83011**

Ohta, Tadayuki (*with* Kimura, Toshiei) Center of inertia for the post-post-Newtonian two-body problem in general relativity. **89h:83017**

Oliveira, S. R. *see* **Letelier, P. S., 89e:83017**

Oliver, Gabriel (*with* Verdaguer, E.) A family of inhomogeneous cosmological Einstein-Rosen metrics. **89m:83022**

Osetrin, K. E. *see* **Bagrov, V. G.; et al., 89m:83011**

Ozsváth, István All homogeneous solution of Einstein's vacuum field equations with a nonvanishing cosmological term. **89e:83020**

Page, Don N. *see* **Chmielowski, Piotr, 89k:83081**

Papadopoulos, Athanase La notion de *p*-invariance en relativité générale. [The notion of *p*-invariance in general relativity] **89b:83048**

Plebański, J. F. On conformally flat spaces and cosmological models. **89h:53133**

Rahmstorf, S. *see* **Rose, B.; et al., 89m:83031**

Ram, Shri Bianchi type VI_0 space-times with perfect fluid source. **89i:83023**

Rebouças, M. J. (*with* Åman, J. E.) Computer-aided study of a class of Riemannian space-times. **89a:83022**

Roberts, M. D. Axial perturbations of Wyman's solution. **89k:83034**

Rose, B. (*with* Rahmstorf, S.; Dehnen, H.) Propagation of self-gravitating density waves in the De Donder gauge on a gravitational background field. **89m:83031**

Senovilla, J. M. M. New LRS perfect-fluid cosmological models. **89a:83024**

Siklos, S. T. C. Asymptotic stability of spatially homogeneous spacetimes. **89c:83029**

Skea, James E. F. *see* **de Araujo, M. E., 89f:83050**

Stachel, John Congruences of subspaces. **89g:83022**

Stephani, H. Symmetries of Einstein's field equations with a perfect fluid source as examples of Lie-Bäcklund symmetries. **89f:83054**

Torrence, R. J. (*with* Couch, W. E.) Progressing waves on spherical spacetimes. **89k:83045**

Torres del Castillo, G. F. Perturbations of solutions of the Einstein equations with sources. **89e:83027**

Traschen, I. *see* **Abbott, L. F.; et al., 89b:83062**

Tucker, R. W. *see* **Mukherjee, Manash, 89i:83022**

Verdaguer, E. *see* **Letelier, P. S., 89c:83017; Oliver, Gabriel, 89m:83022** *and* **Garriga, J., 89m:83028**

Vishveshwara, C. V. *see* **Iyer, Balasubramanian Ramakrishna, 89a:83016**

Woodhouse, N. M. J. (*with* Mason, L. J.) The Geroch group and non-Hausdorff twistor spaces. **89j:83034**

Xu, Rui-Ming *see* **Abbott, L. F.; et al., 89b:83062**

83C25 Approximation procedures, weak fields

Ashby, Neil *see* **Shahid-Saless, Bahman, 89i:83028**

Barker, B. M. (*with* O'Connell, R. F.) On the completion of the post-Newtonian gravitational two-body problem with spin. **89c:83025**

Barrett, John W. A convergence result for linearised Regge calculus. **89k:83031**

Benacquista, M. (*with* Nordtvedt, K.) A many-body Lagrangian for celestial body dynamics to second post-Newtonian linear field order. **89c:83026**

Bombelli, Luca The weak field limit. (*see* **89m:83003**)

Brewin, Leo An application of a first-order formulation of the Regge calculus. **89e:83025**

Damour, Thibault (*with* Schäfer, Gerhard) Le problème des deux corps en relativité générale. (English summary) [The two-body problem in general relativity] **89k:83032**

Dehnen, H. *see* **Rose, B.; et al., 89m:83031**

Gabriel, Marcus D. (*with* Haugan, Mark P.; Zhou, Ziye) Gravitational light deflection and the dragging of inertial frames. **89c:83027**

Garriga, J. (*with* Verdaguer, E.) Testing the quality factor with some approximate solutions to Einstein's equations. **89m:83028**

Haugan, Mark P. *see* **Gabriel, Marcus D.; et al., 89c:83027**

Kimura, Toshiei *see* **Ohta, Tadayuki, 89h:83017**

Kopeikin, S. M. Celestial coordinate reference systems in curved space-time. **89m:83029**

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Maluf, José Wadih The Stephenson-Kilmister-Yang Hamiltonian. **89k:83033**

Moreschi, Osvaldo M. On a limitation of approximation methods around stationary backgrounds for isolated systems. **89b:83040**

Nordtvedt, K. *see* **Benacquista, M., 89c:83026**

O'Connell, R. F. *see* **Barker, B. M., 89c:83025**

Ohta, Tadayuki (*with* Kimura, Toshiei) Center of inertia for the post-post-Newtonian two-body problem in general relativity. **89h:83017**

Persides, Sotirios The gravitational field in the wave zone. III. Elimination of the gauge condition. **89m:83030**

Price, Richard H. *see* **Sun, Yonghe, 89i:83029**

Rahmstorf, S. *see* **Rose, B.; et al., 89m:83031**

Roberts, M. D. Axial perturbations of Wyman's solution. **89k:83034**

Rose, B. (*with* Rahmstorf, S.; Dehnen, H.) Propagation of self-gravitating density waves in the De Donder gauge on a gravitational background field. **89m:83031**

Schäfer, Gerhard Three-body Hamiltonian in general relativity. **89e:83026**

— *see also* **Damour, Thibault, 89k:83032**

Shahid-Saless, Bahman (*with* Ashby, Neil) Relativistic effects in local inertial frames including parametrized-post-Newtonian effects. **89i:83028**

Sun, Yonghe (*with* Price, Richard H.) Excitation of quasinormal ringing of a Schwarzschild black hole. **89i:83029**

Torres del Castillo, G. F. Perturbations of solutions of the Einstein equations with sources. **89e:83027**

Verdaguer, E. *see* **Garriga, J., 89m:83028**

Voinov, A. V. Motion and rotation of celestial bodies in the post-Newtonian approximation. **89i:83030**

Zhou, Ziye *see* **Gabriel, Marcus D.; et al., 89c:83027**

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Abrahams, Andrew M. (*with* Evans, Charles R.) Reading off gravitational radiation waveforms in numerical relativity calculations: matching to linearized gravity. **89b:83008**

Ahmed, Mainuddin Electromagnetic perturbation of the NUT-de Sitter spacetime. **89d:83015**

Bombelli, Luca The weak field limit. (*see* **89m:83003**)

Chamorro, Alberto A Kerr cavity with a small rotation parameter embedded in Friedmann universes. **89m:83012**

Chandrasekhar, Subrahmanyan The two-centre problem in general relativity: the scattering of radiation by two extreme Reissner-Nordström black-holes. **89m:83032**

Crowley, Ronald J. *see* **Price, Richard H.; et al., (89b:83002)**

Daybelge, Umur General relativistic nonequilibrium statistical mechanics. (Turkish summary) **89e:83048**

Evans, Charles R. *see* **Abrahams, Andrew M., 89b:83008**

Fung, P. C. W. (*with* Tao, Fu Zhen) Soliton solutions to the Einstein gravitational field equations in the presence of a spherically-symmetric static background field. **89e:83030**

Gambí Fernández, J. M. (*with* San Miguel, A.; Vicente Ruiz, Francisco) Fourth-order orbital equations in stationary weak gravitational fields. **89f:83015**

Gregory, Ruth (*with* Laflamme, R.) Hypercylindrical black holes. **89e:83069**

Helliwell, T. M. *see* **Konkowski, D. A., 89k:83043**

Ishihara, Hideki (*with* Takahashi, Masaaki; Tomimatsu, A.) Gravitational Faraday rotation induced by a Kerr black hole. **89m:83058**

Khlebnikov, V. I. Replacement modes in the cosmology of a two-component Friedmann universe. (Russian) **89f:83118**

Konkowski, D. A. (*with* Helliwell, T. M.) Electromagnetic fields in a Taub-NUT-type cosmology. **89k:83043**

Kundu, Prasun K. Multipole structure of stationary gravitational fields at null infinity. **89f:83047**

Laflamme, R. *see* **Gregory, Ruth, 89e:83069**

Lu, Hui Qing Plane gravitational waves under a nonzero cosmological constant. **89j:83032**

Macdonald, Douglas A. *see* **Price, Richard H.; et al., (89b:83002)**

Maia, M. D. Geometric space-time perturbation. I. Multiparameter perturbations. **89a:83060a**

— Geometric space-time perturbation. II. Gauge invariance. **89a:83060b**

Moffat, J. W. (*with* Woolgar, E.) Variational principle for particle motion in the nonsymmetric gravitation theory. **89b:83076**

Price, Richard H. (*with* Redmount, Ian H.; Suen, Wai-Mo; Thorne, Kip S.; Macdonald, Douglas A.; Crowley, Ronald J.) Model problems for gravitationally perturbed black holes. (*see* **89b:83002**)

— *see also* **Suen, Wai-Mo; et al., 89d:83024**

Redmount, Ian H. *see* **Suen, Wai-Mo; et al., 89d:83024** *and* **Price, Richard H.; et al., (89b:83002)**

Rosquist, Kjell *see* **Uggla, Claes, 89h:83015**

Ryabushko, A. P. ★ Проблема устойчивости движения тел в общей теории относительности. (Russian) [The problem of the stability of motion of bodies in general relativity] **89b:83017**

San Miguel, A. *see* **Gambí Fernández, J. M.; et al., 89f:83015**

Schmidt, Bernd G. (*with* Stewart, J. M.) Do Cauchy-evolved space-times have a smooth $\mathscr{J}^{\pm}$? **89k:83037**

Stewart, J. M. *see* **Schmidt, Bernd G., 89k:83037**

Stoeger, William R. Almost FLRW observational cosmologies. **89c:83058**

Suen, Wai-Mo (*with* Price, Richard H.; Redmount, Ian H.) Membrane viewpoint on black holes: gravitational perturbations of the horizon. **89d:83024**

— *see also* **Price, Richard H.; et al., (89b:83002)**

Takahashi, Masaaki *see* **Ishihara, Hideki; et al., 89m:83058**

Tao, Fu Zhen *see* **Fung, P. C. W., 89e:83030**

Thorne, Kip S. *see* **Price, Richard H.; et al., (89b:83002)**

Tomimatsu, A. *see* **Ishihara, Hideki; et al., 89m:83058**

Uggla, Claes (*with* Rosquist, Kjell) Asymptotic cosmological solutions: orthogonal Bianchi type I, III, IV, VI and VII models. **89h:83015**

Vicente Ruiz, Francisco *see* **Gambí Fernández, J. M.; et al., 89f:83015**

Woolgar, E. *see* **Moffat, J. W., 89b:83076**

83C27 Lattice gravity and other discrete methods (use only for secondary classification)

Items with secondary classifications in 83C27

Barrett, John W. A convergence result for linearised Regge calculus. **89k:83031**

Bezerra, V. B. Einstein gravity in the loop variable approach. **89f:83070**

Brewin, Leo A continuous time formulation of the Regge calculus. **89h:83029**

— The Riemann and extrinsic curvature tensors in the Regge calculus. **89m:83064**

— The Gauss-Codacci [Codazzi] equation on a Regge spacetime. **89m:83065**

— An application of a first-order formulation of the Regge calculus. **89e:83025**

Caracciolo, S. (*with* Pelissetto, A.) Phases and topological structures of de Sitter lattice gravity. **89g:83025**

Foerster, D. On $d = 2$ Regge calculus without triangulation: the supersymmetric case. **89a:83042**

Kaku, Michio Generally covariant lattices, the random calculus, and the strong coupling approach to the renormalisation of gravity. **89k:83052**

Kheyfets, Arkady (*with* LaFave, Norman Joseph; Miller, Warner A.) Quantum insights from null-strut geometrodynamics. **89j:83042**

— (*with* Miller, Warner A.; Wheeler, John A.) Null-strut calculus: the first test. **89m:83067**

LaFave, Norman Joseph *see* **Kheyfets, Arkady; et al., 89j:83042**

Miller, Warner A. Geometric computation: null-strut geometrodynamics and the inchworm algorithm. **89g:83002**

— *see also* **Kheyfets, Arkady; et al., 89j:83042** *and* **89m:83067**

Pelissetto, A. *see* **Caracciolo, S., 89g:83025**

Piran, Tsvi Numerical relativity and cosmology. **89a:83003**

Renteln, Paul A new lattice regularization for quantum gravity. (*see* **89m:83003**)

Tuckey, Philip A. (*with* Williams, Ruth M.) A $3 + 1$ Regge calculus model of the Taub universe. **89d:83025**

Wheeler, John A. *see* **Kheyfets, Arkady; et al., 89m:83067**

Williams, Ruth M. *see* **Tuckey, Philip A., 89d:83025**

83C30 Asymptotic procedures (radiation, news functions, etc.)

Abe, Mitsuo (*with* Ichinose, Shoichi; Nakanishi, Noboru) Kerr metric, de Donder condition and gravitational energy density. **89c:83028**

Bičak, Jiří The symmetries of an asymptotically flat space-time and gravitational radiation. **89k:83035**

— Radiative properties of space-times with the axial and boost symmetries. **89f:83046**

— (*with* Reilly, Paul; Winicour, J.) Boost-rotation symmetric gravitational null cone data. **89a:83031**

Bishop, N. T. The event horizons of two Schwarzschild black holes. **89h:83018**

Chandrasekhar, Subrahmanyan The two-centre problem in general relativity: the scattering of radiation by two extreme Reissner-Nordström black-holes. **89m:83032**

Chruściel, Piotr T. On the invariant mass conjecture in general relativity. **89m:83033**

Díaz, Mario (*with* Gleiser, Reinaldo; Pullin, Jorge) No-hair theorems and solitonic instabilities of de Sitter spacetimes. **89i:83031**

Friedrich, Helmut (*with* Schmidt, Bernd G.) Conformal geodesics in general relativity. **89b:83041**

Gleiser, Reinaldo *see* **Díaz, Mario; et al., 89i:83031**

Hogan, Peter A. (*with* Trautman, Andrzej) On gravitational radiation from bounded sources. **89k:83036**

Ichinose, Shoichi *see* **Abe, Mitsuo; et al., 89c:83028**

Ivancovich, J. (*with* Kozameh, C.; Newman, E. T.) Green's functions of the edh operators. **89j:83027**

Kijowski, Jerzy On positivity of gravitational energy. **89a:83032**

Kojima, Yasufumi Gravitational radiation induced by a particle moving in Kerr geometry. (*see* **89b:83004**)

Kozameh, C. *see* **Ivancovich, J.; et al., 89j:83027**

Krige, J. D. *see* **McKenzie, J. F., 89m:83034**

Kundu, Prasun K. Multipole structure of stationary gravitational fields at null infinity. **89f:83047**

Magnon, A. M. R. Ratios of magnetic charge to charge and of magnetic mass to mass. **89i:83032**

McKenzie, J. F. (*with* Krige, J. D.) Wave and stability properties of black holes. **89m:83034**

Moreschi, Osvaldo M. Canonical choice of asymptotic retarded time in isolated gravitating systems. **89b:83042**

— Supercentre of mass system at future null infinity. **89e:83028**

Nakanishi, Noboru *see* **Abe, Mitsuo; et al., 89c:83028**

Newman, E. T. *see* **Ivancovich, J.; et al., 89j:83027**

Oohara, Ken-ichi Gravitational radiation in a Schwarzschild geometry and quasinormal mode of a black hole. (*see* **89b:83004**)

Porter, John R. Asymptotically-flat radiation structures. **89e:83029**

Pullin, Jorge *see* **Díaz, Mario; et al., 89i:83031**

Reilly, Paul *see* **Bičak, Jiří; et al., 89a:83031**

Schmidt, Bernd G. Spacetimes admitting scri and the Robinson-Trautman solutions. **89j:83028**

— (*with* Stewart, J. M.) Do Cauchy-evolved space-times have a smooth $\mathscr{I}^{\pm}$? **89k:83037**

— *see also* **Friedrich, Helmut, 89b:83041**

Shaw, William T. Quasi-local mass for "large" spheres. **89j:83029**

Siklos, S. T. C. Asymptotic stability of spatially homogeneous spacetimes. **89c:83029**

Soleng, Harald H. Comments on counterexamples to the cosmological "no hair" conjecture. **89j:83030**

Stewart, J. M. *see* **Schmidt, Bernd G., 89k:83037**

Trautman, Andrzej *see* **Hogan, Peter A., 89k:83036**

Winicour, J. Massive fields at null infinity. **89i:83033**

— *see also* **Bičak, Jiří; et al., 89a:83031**

Items with secondary classifications in 83C30

Aichelburg, P. C. (*with* Embacher, F.) Lightlike contractions in curved spacetime. **89d:83045**

Andersson, Lars Åke Momenta and reduction for general relativity. **89m:58032**

Ashtekar, Abhay ★ Asymptotic quantization. **89c:83033**

Chinea, F. J. Twisting, type-N vacuum gravitational fields with symmetries. **89g:83017**

Embacher, F. *see* **Aichelburg, P. C., 89d:83045**

Feinstein, Alexander Late-time behavior of primordial gravitational waves in expanding universe. **89g:83057**

Finley, J. D., III Toward real-valued $\mathscr{H}\mathscr{H}$ spaces: twisting type N. **89f:83038**

Friedrich, Helmut On static and radiative space-times. **89k:83008**

Gómez, R. (*with* Isaacson, R. A.; Welling, J. S.; Winicour, J.) Numerical relativity on null cones. **89d:83003**

Isaacson, R. A. *see* **Gómez, R.; et al., 89d:83003**

Kojima, Yasufumi *see* **Nakamura, Takashi; et al., 89h:83001**

Kyriakopoulos, E. New series of asymptotically flat axisymmetric and stationary gravitational solutions. **89k:83028**

Leaver, Edward W. Erratum: "Spectral decomposition of the perturbation response of the Schwarzschild geometry" [Phys. Rev. D (3) **34** (1986), no. 2, 384–408; MR 87g:83057]. **89h:83016**

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Oohara, Ken-ichi *see* **Nakamura, Takashi; et al., 89h:83001**

Persides, Sotirios The gravitational field in the wave zone. III. Elimination of the gauge condition. **89m:83030**

Piran, Tsvi (*with* Stark, Richard F.) Numerical relativity, rotating gravitational collapse and gravitational radiation. (*see* **89b:83004**)

Ponce de León, J. Cosmological models with positive scalar spatial curvature and $\Lambda > 0$. **89e:83022**

Punsly, Brian Bundle structures in the Kerr space-time. **89d:83023**

Rendall, Alan D. Existence and asymptotic properties of global solutions of the Robinson-Trautman equation. **89k:83009**

Schutz, B. F. Synergism between numerical and analytic relativity. **89e:83004**

Sorkin, Rafael D. Conserved quantities as action variations. **89g:83021**

Stark, Richard F. *see* **Piran, Tsvi**, (**89b:83004**)

Welling, J. S. *see* **Gómez, R.; et al., 89d:83003**

Winicour, J. *see* **Gómez, R.; et al., 89d:83003**

83C35 Gravitational waves

Bičak, Jiří (*with* Rudenko, V. N.) ★ Гравитационные волны в ОТО и проблема их обнаружения. (Russian) [Gravitational waves in the general theory of relativity and the problem of their detection] **89b:83043**

Centrella, Joan M. Nonlinear gravitational waves and inhomogeneous cosmologies. **89d:83030**

Chandrasekhar, Subrahmanyan (*with* Xanthopoulos, Basilis C.) The effect of sources on horizons that may develop when plane gravitational waves collide. **89c:83030**

Ferrari, V. Focusing process in the collision of gravitational plane waves. **89j:83031**

— (*with* Ibañez, J.) Type-D solutions describing the collision of plane-fronted gravitational waves. **89f:83048**

Fung, P. C. W. (*with* Tao, Fu Zhen) Soliton solutions to the Einstein gravitational field equations in the presence of a spherically-symmetric static background field. **89e:83030**

Ibañez, J. *see* **Ferrari, V., 89f:83048**

Khlebnikov, V. I. Strong gravitational waves in semiclosed electromagnetic universes. The complete system of Newman-Penrose equations and the radial dependence of the field variables. (Russian) **89e:83031**

— Strong gravitational waves in semiclosed electromagnetic universes. Formulation and analysis of the problem in terms of the method of spin coefficients. (Russian) **89f:83049**

Knutsen, Henning On the stability and physical properties of an exact relativistic model for a superdense star. **89d:83031**

Lu, Hui Qing Plane gravitational waves under a nonzero cosmological constant. **89j:83032**

Papacostas, Taxiarchis (*with* Xanthopoulos, Basilis C.) Collisions of gravitational and electromagnetic waves that do not develop curvature singularities. **89m:83035**

Rudenko, V. N. *see* **Bičak, Jiří, 89b:83043**

Tao, Fu Zhen *see* **Fung, P. C. W., 89e:83030**

Taub, A. H. Collision of impulsive gravitational waves followed by dust clouds. **89m:83036**

Thorne, Kip S. Gravitational radiation. (*see* **89b:83007**)

Xanthopoulos, Basilis C. *see* **Chandrasekhar, Subrahmanyan, 89c:83030** *and* **Papacostas, Taxiarchis, 89m:83035**

Yurtsever, Ulvi Colliding almost-plane gravitational waves: colliding plane waves and general properties of almost-plane-wave spacetimes. **89m:83037**

Items with secondary classifications in 83C35

Chandrasekhar, Subrahmanyan (*with* Xanthopoulos, Basilis C.) On colliding waves that develop time-like singularities: a new class of solutions of the Einstein-Maxwell equations. **89a:83012**

Ernst, Frederick J. (*with* García Díaz, Alberto; Hauser, Isidore) Colliding gravitational plane waves with noncollinear polarization. II. **89c:83021**

— (*with* García Díaz, Alberto; Hauser, Isidore) Colliding gravitational plane waves with noncollinear polarization. III. **89k:83026**

Feinstein, Alexander Late-time behavior of primordial gravitational waves in expanding universe. **89g:83057**

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— (*with* Ibañez, J.) On the collision of gravitational plane waves: a class of soliton solutions. **89a:83014**

García Díaz, Alberto *see* **Ernst, Frederick J.; et al., 89c:83021** *and* **89k:83026**

Halilsoy, Mustafa Interacting electromagnetic shock waves in general relativity. **89c:83015**

Hauser, Isidore *see* **Ernst, Frederick J.; et al., 89c:83021** *and* **89k:83026**

He, Zhi Qiang *see* **Tao, Fu Zhen**, (Not in MR)

Ibañez, J. *see* **Ferrari, V., 89a:83013** *and* **89a:83014**

Kojima, Yasufumi *see* **Nakamura, Takashi; et al., 89h:83001**

Liu, Hong Ya (*with* Shi, Wan Zhong) Plane-wave solutions in five-dimensional Kaluza-Klein theories. **89e:83073**

Nakamura, Takashi (*with* Oohara, Ken-ichi; Kojima, Yasufumi) General relativistic collapse to black holes and gravitational waves from black holes. **89h:83001**

Oohara, Ken-ichi *see* **Nakamura, Takashi; et al., 89h:83001**

Price, Richard H. *see* **Sun, Yonghe, 89i:83029**

Shi, Wan Zhong *see* **Liu, Hong Ya, 89e:83073**

Sun, Yonghe (*with* Price, Richard H.) Excitation of quasinormal ringing of a Schwarzschild black hole. **89i:83029**

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Taub, A. H. On the collision of planar impulsive gravitational waves. **89j:83015**

Verdaguer, E. Plane waves and soliton solutions. (Italian and Russian summaries) **89j:83026**

Xanthopoulos, Basilis C. Cosmic strings coupled with gravitational and electromagnetic waves. **89a:83030**

— *see also* **Chandrasekhar, Subrahmanyan, 89a:83012**

Yurtsever, Ulvi New family of exact solutions for colliding plane gravitational waves. **89k:83030**

83C40 Groups of motions, invariance groups, conservation laws, etc.

Abe, Mitsuo (*with* Nakanishi, Noboru) Complete gauge fixing in the new local supersymmetry of the vierbein formalism of Einstein gravity. **89e:83032**

Aminova, A. V. Projective-group symmetries of Friedmann universes and of their multidimensional generalizations—symmetries of ordinary *h*-spaces of type $\{1(1\cdots 1)\}$. (Russian) **89c:83031**

de Araujo, M. E. (*with* Skea, James E. F.) Automorphisms in action: spatially homogeneous Einstein-Maxwell plane waves. **89f:83050**

Bażański, S. L. (*with* Kostyukovich, N. N.) On first integrals of the electromagnetic deviation equations. **89g:83019**

Berezin, V. A. (*with* Kuzʹmin, V. A.; Tkachev, I. I.) Global geometry of a spherically symmetric universe. **89k:83038**

Bona Garcia, Carles A new proof of the generalized Birkhoff theorem. **89f:83051**

Buchmüller, W. (*with* Dragon, N.) Einstein gravity from restricted coordinate invariance. **89h:83019**

Bugalho, M. H. Orthogonality transitivity and cosmologies with a nonabelian two-parameter isometry group. **89e:83033**

Chellathurai, V. *see* **Kulkarni, Ravi; et al., 89m:83039**

Chinea, F. J. Symmetries in tetrad theories. **89d:83032**

da Costa, José Manuel N. *see* **Hall, G. S., 89m:83038**

Dadhich, Naresh *see* **Kulkarni, Ravi; et al., 89m:83039**

Dong, Xue Geng *see* **Duan, Yi Shi; et al., 89j:83033**

Dragon, N. *see* **Buchmüller, W., 89h:83019**

Duan, Yi Shi (*with* Liu, Ji Cheng; Dong, Xue Geng) General covariant energy-momentum conservation law in general spacetime. **89j:83033**

Duggal, K. L. Relativistic fluids with shear and timelike conformal collineations. **89b:83044**

Faridi, Abbas M. Einstein-Maxwell equations and the conformal Ricci collineations. **89a:83033**

Goldberg, Joshua N. *D*-invariance on a null surface. **89h:83020**

Hall, G. S. Homothetic transformations with fixed points in spacetime. **89i:83034**

— (*with* da Costa, José Manuel N.) Affine collineations in space-time. **89m:83038**

Hou, Bo Yu (*with* Li, Wei^{7}) New symmetries in stationary, axially symmetric Einstein-Maxwell fields. (Chinese. English summary) **89f:83052**

— (*with* Li, Wei^{7}) Generating functions with new hidden symmetries for cylindrically symmetric gravitational fields. **89k:83039**

Israel, W. *see* **Katz, Joseph; et al., 89i:83035**

Jantzen, Robert T. *see* **Rosquist, Kjell, 89f:83053**

Kamran, N. (*with* McLenaghan, R. G.) Separation of variables for higher spin, zero rest-mass field equations on type *D* vacuum backgrounds with cosmological constant. **89g:83020**

Katz, Joseph (*with* Lynden-Bell, D.; Israel, W.) Quasilocal energy in static gravitational fields. **89i:83035**

Kostyukovich, N. N. *see* **Bażański, S. L., 89g:83019**

Kulkarni, Ravi (*with* Chellathurai, V.; Dadhich, Naresh) The effective mass of the Kerr spacetime. **89m:83039**

Kuzʹmin, V. A. *see* **Berezin, V. A.; et al., 89k:83038**

Leibowitz, Elhanan *see* **Nissani, Noah, 89c:83032**

Li, Wei^{7} The complete Virasoro algebra for the stationary and axially symmetric Einstein field equations. **89m:83040**

— *see also* **Hou, Bo Yu, 89f:83052** *and* **89k:83039**

Liu, Ji Cheng *see* **Duan, Yi Shi; et al., 89j:83033**

Ludwig, Garry Extended Geroch-Held-Penrose formalism. **89d:83033**

Lynden-Bell, D. *see* **Katz, Joseph; et al., 89i:83035**

Maartens, R. (*with* Maharaj, S. D.) Invariant solutions of Liouville's equation in Robertson-Walker space-times. **89b:83045b**

— *see also* **Maharaj, S. D., 89b:83045a** *and* **Mason, D. P., 89b:83046**

Maharaj, S. D. (*with* Maartens, R.) General solution of Liouville's equation in Robertson-Walker space-times. **89b:83045a**

— *see also* **Maartens, R., 89b:83045b**

Mason, D. P. (*with* Maartens, R.) Kinematics and dynamics of conformal collineations in relativity. **89b:83046**

Mason, L. J. *see* **Woodhouse, N. M. J., 89j:83034**

McLenaghan, R. G. *see* **Kamran, N., 89g:83020**

Nahmad-Achar, E. (*with* Schutz, B. F.) Pseudotensors in asymptotically curvilinear coordinates. **89b:83047**

Nakanishi, Noboru *see* **Abe, Mitsuo, 89e:83032**

Nissani, Noah (*with* Leibowitz, Elhanan) Coordinate approach to the energy conservation problem in general relativity. **89c:83032**

Papadopoulos, Athanase La notion de *p*-invariance en relativité générale. [The notion of *p*-invariance in general relativity] **89b:83048**

Rosquist, Kjell (*with* Jantzen, Robert T.) Unified regularization of Bianchi cosmology. **89f:83053**

Schutz, B. F. *see* **Nahmad-Achar, E., 89b:83047**

Skea, James E. F. *see* **de Araujo, M. E., 89f:83050**

Sorkin, Rafael D. Conserved quantities as action variations. **89g:83021**

Stachel, John Congruences of subspaces. **89g:83022**

Stephani, H. Symmetries of Einstein's field equations with a perfect fluid source as examples of Lie-Bäcklund symmetries. **89f:83054**

Szabados, L. B. Commutation properties of cyclic and null Killing symmetries. **89g:83023**

Tkachev, I. I. *see* **Berezin, V. A.; et al., 89k:83038**

Tod, K. P. The integral constraint vectors of Traschen and three-surface twistors. **89m:83041**

Torres del Castillo, G. F. The separability of Maxwell's equations in type-*D* backgrounds. **89e:83034**

Woodhouse, N. M. J. (*with* Mason, L. J.) The Geroch group and non-Hausdorff twistor spaces. **89j:83034**

Items with secondary classifications in 83C40

Abe, Mitsuo Another supersymmetric extension of local Lorentz symmetry in the vierbein formalism of Einstein gravity. **89m:83090**

(Anderson, James L.) *see* **González-Gascón, Francisco, 89h:58171**

de Araujo, M. E. (*with* Skea, James E. F.) The automorphism groups for Bianchi universe models and computer-aided invariant classification of metrics. **89g:83010**

Beesham, A. A note on the Birkhoff-type theorem in the scale-covariant theory of gravitation. **89k:83059**

Bičak, Jiří The symmetries of an asymptotically flat space-time and gravitational radiation. **89k:83035**

— Radiative properties of space-times with the axial and boost symmetries. **89f:83046**

Blagojević, M. (*with* Vasilić, M.) Asymptotic symmetry and conserved quantities in the Poincaré gauge theory of gravity. **89k:83060**

Bona Garcia, Carles (*with* Coll, Bartolomé) On the Stephani universes. **89h:83006**

— (*with* Coll, Bartolomé) Classification of the space-times admitting a constant curvature synchronization. **89c:83020**

Bray, Marcel Cosmologies non homogènes et anisotropes correspondant à l'équation d'état $\rho = p$. (Italian summary) [Nonhomogeneous anisotropic cosmologies corresponding to the equation of state $\rho = p$] **89b:83020**

Chandrasekhar, Subrahmanyan On Weyl's solution for space-times with two commuting Killing fields. **89c:83012**

Chinea, F. J. Twisting, type-*N* vacuum gravitational fields with symmetries. **89g:83017**

Chruściel, Piotr T. On the invariant mass conjecture in general relativity. **89m:83033**

Coll, Bartolomé *see* **Bona Garcia, Carles, 89c:83020** *and* **89h:83006**

Cordani, B. (*with* Fehér, L. Gy.; Horváthy, P. A.) O(4, 2) dynamical symmetry of the Kaluza-Klein monopole. **89f:83084**

Di Prisco, A. (*with* Herrera, L.; Jiménez, Juan Francisco; Galina, V.; Ibañez, J.) The Bondi metric and conformal motions. **89h:83007**

Doi, Hideo Nonlinear equations on a Lie group. **89e:58019**

Dyer, C. C. (*with* McVittie, G. C.; Oattes, L. M.) A class of spherically symmetric solutions with conformal Killing vectors. **89b:83033**

Economou, Athanasios (*with* Tsoubelis, D.) Rotating cosmic strings and gravitational soliton waves. **89m:83066**

Ernst, Frederick J. (*with* García Díaz, Alberto; Hauser, Isidore) Colliding gravitational plane waves with noncollinear polarization. II. **89c:83021**

— *see also* **Hauser, Isidore, 89e:83024**

Fehér, L. Gy. *see* **Cordani, B.; et al., 89f:83084**

Fuchs, Helmut Test particle motion in geometric object fields—conservation laws. **89c:83009**

Galina, V. *see* **Di Prisco, A.; et al., 89h:83007**

García Díaz, Alberto (*with* Tellez Ulloa, Jorge) Stationary axisymmetric rotating perfect fluid type *D* solutions. **89f:83039**

— *see also* **Ernst, Frederick J.; et al., 89c:83021**

Gleiser, Reinaldo Solitonic perturbations of perfect fluid cosmological models. **89i:83015**

González-Gascón, Francisco (*with* González-López, A.) Note on a paper by J. L. Anderson: "Covariance, invariance, and equivalence: a viewpoint" [Gen. Relativity Gravitation **2** (1971), 161–172; MR 58 #25735]. **89h:58171**

González-López, A. *see* **González-Gascón, Francisco, 89h:58171**

Hauser, Isidore (*with* Ernst, Frederick J.) A new proof of an old conjecture. **89e:83024**

— *see also* **Ernst, Frederick J.; et al., 89c:83021**

Herrera, L. *see* **Di Prisco, A.; et al., 89h:83007**

Horváthy, P. A. *see* **Cordani, B.; et al., 89f:83084**

Ibañez, J. *see* **Di Prisco, A.; et al., 89h:83007**

Iyer, Balasubramanian Ramakrishna (*with* Vishveshwara, C. V.) The Frenet-Serret formalism and black holes in higher dimensions. **89g:83044**

Jiménez, Juan Francisco *see* **Di Prisco, A.; et al., 89h:83007**

Kamran, N. (*with* Légaré, M.; McLenaghan, R. G.; Winternitz, P.) The classification of complete sets of operators commuting with the Dirac operator in Minkowski space-time. **89e:81019**

Krasiński, Andrzej Shear-free normal cosmological models. **89k:83027**

Kupeli, Ayse H. Vacuum solutions admitting a geodesic null congruence with shear proportional to expansion. **89c:83016**

Kyriakopoulos, E. New series of asymptotically flat axisymmetric and stationary gravitational solutions. **89k:83028**

— On generating new solutions of the Ernst equation from old solutions. **89m:83026**

Légaré, M. *see* **Kamran, N.; et al., 89e:81019**

Lukács, B. (*with* Perjés, Z.; Sebestyén, Á.; Sparling, G. A. J.) Conformally flat 3-spaces with axial symmetry. **89f:83043**

Lun, A. W.-C. (*with* McIntosh, C. B. G.; Singleton, D. B.) Expanding algebraically degenerate vacuum spaces with homothetic motions. **89j:83021**

Magnon, A. M. R. Ratios of magnetic charge to charge and of magnetic mass to mass. **89i:83032**

Matravers, D. R. Solutions to Einstein's field equations with Kantowski-Sachs symmetry and string dust source. **89h:83009**

McIntosh, C. B. G. *see* **Lun, A. W.-C.; et al., 89j:83021**

McLenaghan, R. G. *see* **Kamran, N.; et al., 89e:81019**

McVittie, G. C. *see* **Dyer, C. C.; et al., 89b:83033**

Müller-Hoissen, Folkert (*with* Sippel, Reinhard) Spherically symmetric solutions of the nonminimally coupled Einstein-Maxwell equations. **89k:83018**

Nagatomo, Kiyokazu Formal power series solutions of the stationary axisymmetric vacuum Einstein equations. **89e:83019**

Nagayama, Haruya A note on some variational problem in general relativity. **89d:83012**

Novotný, Jan On the generally invariant theories of gravitation. **89a:83049**

Oattes, L. M. *see* **Dyer, C. C.; et al., 89b:83033**

Ozsváth, István All homogeneous solution of Einstein's vacuum field equations with a nonvanishing cosmological term. **89e:83020**

Paiva, F. M. (*with* Rebouças, M. J.; Teixeira, A. F. F.) Time travel in the homogeneous Som-Raychaudhuri universe. **89b:83015a**

— (*with* Rebouças, M. J.; Teixeira, A. F. F.) Errata: "Time travel in the homogeneous Som-Raychaudhuri universe". **89b:83015b**

Perjés, Z. *see* **Lukács, B.; et al., 89f:83043**

Rebouças, M. J. *see* **Paiva, F. M.; et al., 89b:83015a** *and* **89b:83015b**

Reddy, D. R. K. Birkhoff's theorem in a conformally-invariant scalar field theory. **89a:83051**

Ryan, Michael P., Jr. Plane-symmetric cosmologies—an overview. **89d:83029**

Sebestyén, Á. *see* **Lukács, B.; et al., 89f:83043**

Singleton, D. B. *see* **Lun, A. W.-C.; et al., 89j:83021**

Sippel, Reinhard *see* **Müller-Hoissen, Folkert, 89k:83018**

Skea, James E. F. *see* **de Araujo, M. E., 89g:83010**

Sparling, G. A. J. *see* **Lukács, B.; et al., 89f:83043**

Teixeira, A. F. F. *see* **Paiva, F. M.; et al., 89b:83015a** *and* **89b:83015b**

Tellez Ulloa, Jorge *see* **García Díaz, Alberto, 89f:83039**

Tsoubelis, D. *see* **Economou, Athanasios, 89m:83066**

Van den Bergh, N. Comment on conformally Ricci-flat perfect fluids of Petrov-type N. **89b:83037**

— A class of inhomogeneous cosmological models with separable metrics. **89b:83038**

— Nonrotating and nonexpanding perfect fluids. **89b:83039**

Vandyck, M. A. J. On the problem of spacetime symmetries in the theory of supergravity. **89c:83053**

Vasilić, M. *see* **Blagojević, M., 89k:83060**

Vishveshwara, C. V. *see* **Iyer, Balasubramanian Ramakrishna, 89g:83044**

Winternitz, P. *see* **Kamran, N.; et al., 89e:81019**

Witten, Edward Topological gravity. **89m:81100**

83C45 Quantization of the gravitational field

Abe, Mitsuo (*with* Nakanishi, Noboru) BRS-invariant Lagrangian density in the new local supersymmetry of the vierbein formalism of Einstein gravity. **89d:83034**

Aragone, C. Stringy characteristics of effective gravity. **89d:83035**

Ashtekar, Abhay ★ Asymptotic quantization. **89c:83033**

— (*with* Mazur, Paweł O.; Torre, C. G.) BRST structure of general relativity in terms of new variables. **89a:83034**

— CP-violation in quantum gravity? (*see* **89m:83003**)

Bombelli, Luca The general program. (*see* **89m:83003**)

— The weak field limit. (*see* **89m:83003**)

von Borzeszkowski, Horst-Heino (*with* Treder, H.-J.) ★ The meaning of quantum gravity. **89g:83024**

Botelho, Luiz C. L. Invariant path integration and the covariant functional measure for Einstein gravitation theory. **89j:83035**

Bukhbinder, I. L. (*with* Lyakhovich, S. L.) Canonical quantization and local measure in gravity with higher derivatives. (Russian) (*see* **89d:81001**)

— (*with* Lyakhovich, S. L.) Canonical quantisation and local measure of R^2 gravity. **89c:83034**

— (*with* Lyakhovich, S. L.) Canonical quantization of theories with higher derivatives. Quantization of R^2-gravity. (Russian. English summary) **89a:83035**

— (*with* Lavrov, P. M.; Odintsov, S. D.) Unique effective action in Kaluza-Klein quantum theories and spontaneous compactification. **89j:83036**

Caracciolo, S. (*with* Pelissetto, A.) Phases and topological structures of de Sitter lattice gravity. **89g:83025**

Castagnino, Mario Probability and time in quantum gravity. **89j:83037**

Chaves, Máximo Superstrings and the quantization of gravity. (Spanish. English summary) **89c:83035**

Coleman, Sidney Black holes as red herrings: topological fluctuations and the loss of quantum coherence. **89i:83037**

Deser, S. Gravity from strings. (*see* **89f:81005**)

Duncan, M. J. (*with* Jensen, L. G.) The quantum cosmology of an anisotropic universe. **89k:83040**

Friedman, John L. (*with* Jack, I.) Formal commutators of the gravitational constraints are not well defined: a translation of Ashtekar's ordering to the Schrödinger representation. **89m:83042**

Giddings, Steven B. (*with* Strominger, Andrew) Loss of incoherence and determination of coupling constants in quantum gravity. **89i:83036**

Gleiser, Marcelo (*with* Holman, Richard; Neto, Nelson P.) First order formalism for quantum gravity. **89d:83036**

Halliwell, J. J. Correlations in the wave function of the Universe. **89a:83036**

Hartle, James B. (*with* Schleich, Kristin) The conformal rotation in linearised gravity. **89j:83038**

— (*with* Witt, D. M.) Gravitational θ states and the wave function of the universe. **89f:83055**

Hawking, S. W. Who's afraid of (higher derivative) ghosts? (*see* **89b:81008**)

— The Schrödinger equation of the Universe. (*see* **89m:01069**)

— Quantum cosmology. (*see* **89b:83007**)

— (*with* Laflamme, R.) Baby universes and the nonrenormalizability of gravity. **89h:83021**

— Wormholes in spacetime. **89f:83056**

Holman, Richard *see* **Gleiser, Marcelo; et al., 89d:83036**

't Hooft, G. Nonperturbative 2 particle scattering amplitudes in 2 + 1-dimensional quantum gravity. **89h:83022**

— On the factorization of universal poles in a theory of gravitating point particles. **89j:83039**

Hu, Xing (*with* Wu, You Lin) Quantum cosmological model with a scalar field as source. **89g:83026**

Huggins, S. R. (*with* Kunstatter, G.; Leivo, H. P.; Toms, David J.) The Vilkovisky-DeWitt effective action for quantum gravity. **89j:83040**

Husain, Viqar The $G_N \to \infty$ limit of quantum gravity. **89f:83057**

Jack, I. *see* **Friedman, John L., 89m:83042**

Jacobson, Ted Superspace in the self-dual representation of quantum gravity. **89j:83041**

— (*with* Smolin, Lee) Nonperturbative quantum geometries. **89g:83027**

Jensen, L. G. *see* **Duncan, M. J., 89k:83040**

Joshi, Pankaj S. (*with* Joshi, Sonal S.) Quantum effects near the singularity in a general cosmological scenario. **89f:83058a**

— *see also* **Joshi, Sonal S., 89f:83058b**

Joshi, Sonal S. (*with* Joshi, Pankaj S.) Quantum effects near the singularity in a general cosmological scenario. II. **89f:83058b**

— *see also* **Joshi, Pankaj S., 89f:83058a**

Kandrup, Henry E. Conditional probabilities and entropy in (minisuperspace) quantum cosmology. **89g:83028**

Kheyfets, Arkady (*with* LaFave, Norman Joseph; Miller, Warner A.) Quantum insights from null-strut geometrodynamics. **89j:83042**

Kiefer, Claus Wave packets in minisuperspace. **89i:83038**

Knizhnik, V. G. (*with* Polyakov, A. M.; Zamolodchikov, Aleksandr B.) Fractal structure of 2D-quantum gravity. **89i:83039**

Koryukin, V. M. Gravitational fields and the extended gauge formalism. (Russian) **89h:83023**

Kuchař, Karel V. Covariant quantization of dynamical systems with constraints. **89j:83043**

Kunstatter, G. *see* **Huggins, S. R.; et al., 89j:83040**

LaFave, Norman Joseph *see* **Kheyfets, Arkady; et al., 89j:83042**

Laflamme, R. The Euclidean vacuum: justification from quantum cosmology. **89a:83037**

— *see also* **Hawking, S. W., 89h:83021**

Lavrov, P. M. (*with* Odintsov, S. D.; Tyutin, I. V.) Effective actions in theories of quantum gravity. **89d:83037**

— *see also* **Bukhbinder, I. L.; et al., 89j:83036**

Lawrence, A. M. Stability of cosmological solutions to string theory effective actions. **89m:83043**

Lazzizzera, I. (*with* Tecchiolli, G.; Zerbini, S.) Stochastic quantization of linearized gravitational theories. **89d:83038**

Leivo, H. P. *see* **Huggins, S. R.; et al., 89j:83040**

Louko, Jorma Canonising the Hartle-Hawking proposal. **89c:83036**

Lyakhovich, S. L. *see* **Bukhbinder, I. L., 89a:83035; 89c:83034** *and* (**89d:81001**)

Macías, A. (*with* Obregón, O.; Ryan, Michael P., Jr.) Quantum cosmology: the supersymmetric square root. **89a:83038**

Magnon, A. M. R. Primordial foam and absorption of infrared divergences in quantum gravity. **89e:83035**

Mazur, Paweł O. *see* **Ashtekar, Abhay; et al., 89a:83034**

Miller, Warner A. *see* **Kheyfets, Arkady; et al., 89j:83042**

Nakanishi, Noboru *see* **Abe, Mitsuo, 89d:83034**

Nelson, J. E. Extended canonical vierbein formalism. **89d:83039**

Neto, Nelson P. *see* **Gleiser, Marcelo; et al., 89d:83036**

Obregón, O. *see* **Macías, A.; et al., 89a:83038**

Odintsov, S. D. *see* **Lavrov, P. M.; et al., 89d:83037** *and* **Bukhbinder, I. L.; et al., 89j:83036**

Pelissetto, A. *see* **Caracciolo, S., 89g:83025**

Polyakov, A. M. Quantum gravity in two dimensions. **89b:83049**

— *see also* **Knizhnik, V. G.; et al., 89i:83039**

Renteln, Paul A new lattice regularization for quantum gravity. (*see* **89m:83003**)

Rovelli, Carlo Continuous product representations in quantum gravity. **89b:83050**

— Loop space representation. (*see* **89m:83003**)

Ryan, Michael P., Jr. *see* **Macías, A.; et al., 89a:83038**

Schleich, Kristin *see* **Hartle, James B., 89j:83038**

Smolin, Lee Quantum gravity in the self-dual representation. **89h:83024**

— Exact solutions to the quantum Hamiltonian constraints. (*see* **89m:83003**)

— Knot theory, loop space and the diffeomorphism group. (*see* **89m:83003**)

— *see also* **Jacobson, Ted, 89g:83027**

Strominger, Andrew *see* **Giddings, Steven B., 89i:83036**

Tecchiolli, G. *see* **Lazzizzera, I.; et al., 89d:83038**

Tomboulis, E. T. On unitarity in renormalisable $\mathbf{R}^2_{\mu\nu}$ quantum gravity. (*see* **89b:81008**)

Toms, David J. *see* **Huggins, S. R.; et al., 89j:83040**

Torre, C. G. The BRST formalism in general relativity. (*see* **89m:83003**)

— The propagation amplitude in spinorial gravity. **89e:83036**

— *see also* **Ashtekar, Abhay; et al., 89a:83034**

Treder, H.-J. *see* **von Borzeszkowski, Horst-Heino, 89g:83024**

Tyutin, I. V. *see* **Lavrov, P. M.; et al., 89d:83037**

Vachaspati, Tanmay (*with* Vilenkin, Alexander) Uniqueness of the tunneling wave function of the Universe. **89f:83060**

Vilenkin, Alexander Quantum cosmology and the initial state of the Universe. **89f:83059**

— *see also* **Vachaspati, Tanmay, 89f:83060**

Witt, D. M. *see* **Hartle, James B., 89f:83055**

Wu, You Lin *see* **Hu, Xing, 89g:83026**
Zamolodchikov, Aleksandr B. *see* **Knizhnik, V. G.; et al., 89i:83039**
Zerbini, S. *see* **Lazzizzera, I.; et al., 89d:83038**
Zhuk, Alexander Problem of the boundary condition in quantum cosmology: a simple example. **89k:83041**

Items with secondary classifications in 83C45

Aldrovandi, R. (*with* Pereira, J. G.) On the quantization of Poincaré and de Sitter gauge models. **89i:81065**
Ashtekar, Abhay A 3 + 1 formulation of Einstein self-duality. **89i:83006**
Berezin, V. A. (*with* Kuz′min, V. A.; Tkachev, I. I.) O(3)-invariant tunneling in general relativity. **89d:83080**
Berger, Beverly K. Monte Carlo simulation of a quantized universe. **89f:83003**
Bukhbinder, I. L. (*with* Kuzenko, S. M.) Quantization of classically equivalent theories in superspace of simple supergravity, and quantum equivalence. **89a:83066**
— (*with* Odintsov, S. D.) A unique effective action in Kaluza-Klein theories and spontaneous compactification. **89e:83067**
David, François Louis Conformal field theories coupled to 2-D gravity in the conformal gauge. **89k:81138**
Deser, S. (*with* Jackiw, R.) Classical and quantum scattering on a cone. **89k:81188**
Esposito, G. (*with* Platania, G.) Inflationary solutions in quantum cosmology. **89f:83114**
Foussats, A. (*with* Zandron, O.) Canonical covariant formalism for gravity and supergravity in more than four dimensions. **89f:83100**
Fukuyama, Takeshi (*with* Kamimura, Kiyoshi) Anomalies in two-dimensional gravity. **89c:81120**
Goldberg, Joshua N. *D*-invariance on a null surface. **89h:83020**
Görnitz, Thomas Abstract quantum theory and space-time structure. I. Ur theory and Bekenstein-Hawking entropy. **89g:83058**
Graziani, F. R. Quantum probability distributions in the early Universe. I. Equilibrium properties of the Wigner equation. **89h:83044a**
— Quantum probability distributions in the early Universe. II. The quantum Langevin equation. **89h:83044b**
Grishchuk, L. P. (*with* Rozhanskiĭ, L. V.) On the beginning and the end of classical evolution in quantum cosmology. **89i:83069**
Gurzadyan, V. G. (*with* Kocharyan, A. A.) Instability in Wheeler-DeWitt superspace. **89b:83075**
Hawking, S. W. The density matrix of the universe. (*see* **89f:81005**)
Jack, I. (*with* Jones, D. R. T.; Lawrence, A. M.) Ghost freedom and string actions. **89f:81184**
Jackiw, R. *see* **Deser, S., 89k:81188**
Jarvis, P. D. The CSDR approach to covariant quantisation of vielbein gauge fields. **89h:81107**
Jones, D. R. T. *see* **Jack, I.; et al., 89f:81184**
Kamimura, Kiyoshi *see* **Fukuyama, Takeshi, 89c:81120**
Kocharyan, A. A. *see* **Gurzadyan, V. G., 89b:83075**
Kuzenko, S. M. *see* **Bukhbinder, I. L., 89a:83066**
Kuz′min, V. A. *see* **Berezin, V. A.; et al., 89d:83080**
Landi, G. (*with* Marmo, G.) Einstein algebras and the algebraic Kaluza-Klein monopole. **89f:53106**
Lawrence, A. M. *see* **Jack, I.; et al., 89f:81184**
LeBrun, Claude Counter-examples to the generalized positive action conjecture. **89f:53107**
Linde, A. D. Inflation and quantum cosmology. (*see* **89b:83007**)
Lukash, V. N. (*with* Schmidt, Hans-Jürgen) Isotropization by scalar field driven inflation and the cosmological quantum boundary. (German summary) **89b:83102**
Marmo, G. *see* **Landi, G., 89f:53106**
Odintsov, S. D. *see* **Bukhbinder, I. L., 89e:83067**
Pereira, J. G. *see* **Aldrovandi, R., 89i:81065**
Platania, G. *see* **Esposito, G., 89f:83114**
Pope, C. N. (*with* Stelle, K. S.) The Witten index for the supermembrane. **89k:83073**
Regge, Tullio On strings and J. Douglas variational principle. (*see* **89j:00012**)
Reula, Oscar A configuration space for quantum gravity and solutions to the Euclidean Einstein equations in a slab region. **89b:83010**
Rozhanskiĭ, L. V. *see* **Grishchuk, L. P., 89i:83069**
Sanielevici, Mihaela Niculescu (*with* Semenoff, Gordon W.; Wu, Yong Shi^{1}) Path integral analysis of chiral bosonization. **89k:81171**
Schmidt, Hans-Jürgen *see* **Lukash, V. N., 89b:83102**
Semenoff, Gordon W. *see* **Sanielevici, Mihaela Niculescu; et al., 89k:81171**
Stelle, K. S. *see* **Pope, C. N., 89k:83073**
Szabó, László E. Simple example of quantum causal structure. **89a:81015**
Tkachev, I. I. *see* **Berezin, V. A.; et al., 89d:83080**
Wu, Yong Shi^{1} *see* **Sanielevici, Mihaela Niculescu; et al., 89k:81171**
Zandron, O. *see* **Foussats, A., 89f:83100**

Items listed otherwise than by author

New perspectives in canonical gravity ★ New perspectives in canonical gravity. **89m:83003**

83C47 Quantum field theory on curved space-times [see also 81E20]

Arai, Kenzo (*with* Shimoda, Seiro) Evolution of evaporating black holes. **89m:83044**
Balbinot, Roberto Black-hole space-times and the semiclassical Einstein equations. (Italian and Russian summaries) **89i:83040**
— (*with* Barletta, Antonio) Switching off black hole evaporation? **89g:83029**
— (*with* Barletta, Antonio) Behaviour of a test field in a vacuum bubble space-time. (Italian and Russian summaries) **89m:83045**
Balek, V. (*with* Melek, M.; Petráš, M.) Description of spinning particle in general relativity using commuting spin variables. **89b:83051**
Barletta, Antonio *see* **Balbinot, Roberto, 89g:83029** *and* **89m:83045**
Birmingham, Danny (*with* Kantowski, R.; Milton, Kimball A.) Scalar and spinor Casimir energies in even-dimensional Kaluza-Klein spaces of the form $M^4 \times S^{N_1} \times S^{N_2} \times \cdots$. **89j:83044**
Bishop, N. T. *see* **Landsberg, P. T., 89e:83039**
Bogdanov, I. V. (*with* Demkov, Yu. N.) Determination of the internal structure of relativistic astrophysical objects in the wave approximation. **89c:83037**
Boulware, David G. (*with* Deser, S.; Stelle, K. S.) Properties of energy in higher derivative gravity theories. (*see* **89b:81008**)
Bowick, M. J. (*with* Giddings, Steven B.; Harvey, Jeffrey A.; Horowitz, Gary T.; Strominger, Andrew) Axionic black holes and an Aharonov-Bohm effect for strings. **89j:83045**
Burinskiĭ, A. Ya. The problem of the source of the Kerr-Newman metric: the volume Casimir effect and superdense pseudovacuum state. **89m:83046**
Chakrabarti, Amitabha Fermions and gauge fields in the Einstein static universe. **89f:83061**
Chen, Liang Fan *see* **Zhou, Min Yao, 89e:83041**
Chimento, Luis P. Exact solutions of the Einstein equations including quantum effects. **89h:83025**
Demkov, Yu. N. *see* **Bogdanov, I. V., 89c:83037**
Deser, S. *see* **Boulware, David G.; et al., (89b:81008)**
Díaz Bejarano, J. (*with* Miró Rodríguez, C.) Evaporation of nonzero rest mass particles from a black hole. **89f:83062**
Feng, Long Long *see* **Li, Miao, 89e:83040**
Gerlach, Ulrich H. Minkowski Bessel modes. **89m:83047a**
— Erratum: "Minkowski Bessel modes". **89m:83047b**
— Dynamics and symmetries of a field partitioned by an accelerated frame. **89m:83048**
Giddings, Steven B. *see* **Bowick, M. J.; et al., 89j:83045**
Grib, A. A. (*with* Nesteruk, A. V.; Pritomanov, S. A.) Quantum effects of massless fields in anisotropic spacetime. **89e:83037**
Grishchuk, L. P. (*with* Zel′dovich, Ya. B.; Rozhanskiĭ, L. V.) Equivalence principle and zero-point field fluctuations. **89b:83052**
Gusynin, V. P. (*with* Roman′kov, V. V.) Conformally covariant operators and the effective action in an external gravitational field. **89d:83040**
Harvey, Jeffrey A. *see* **Bowick, M. J.; et al., 89j:83045**
't Hooft, G. Strings from gravity. (*see* **89f:81005**)
Horowitz, Gary T. *see* **Bowick, M. J.; et al., 89j:83045**
Hu, B. L. *see* **Sinha, Sukanya, 89j:83049**
Husain, Viqar Weyl tensor and gravitational entropy. **89m:83049**
Israel, W. *see* **Poisson, E., 89j:83047**
Jensen, Bruce (*with* McLaughlin, John; Ottewill, Adrian) Renormalised electromagnetic energy density on the horizon of a Kerr black hole. **89m:83050**
John, R. W. The Hadamard construction of Green's functions on a curved space-time with symmetries. (German summary) **89j:83046**
Kandrup, Henry E. Entropy generation, particle creation, and quantum field theory in a cosmological spacetime: when do number and entropy increase? **89m:83051**
— Particle number and random phases. **89m:83052**
Kantowski, R. *see* **Birmingham, Danny; et al., 89j:83044**
Kasper, U. On the importance of quantum mechanics for the axiomatic approach to the theory of gravitation. **89e:83038**
Laflamme, R. Entropy of a Rindler wedge. **89b:83053**
Lahiri, J. (*with* Menon, V. J.) Quantum conformal fluctuations revisited. **89f:83063**
Landsberg, P. T. (*with* Bishop, N. T.) The thermodynamics of a system containing *n* identical black holes and black-body radiation. **89e:83039**
Lemos, Nivaldo A. (*with* Natividade, C. P.) Harmonic oscillator in expanding universes. (Italian and Russian summaries) **89d:83041**
Li, Miao (*with* Feng, Long Long) Wave function of the universe with quantum correction of matter fields. **89e:83040**
Luan, De Huai Comment: "Interior spacetime for the quantum black hole and its homomorphic map" [Sci. Sinica Ser. A 29 (1986), no. 8, 880–888; MR 87m:83044] by S. C. Zhu. (Chinese) **89a:83039**
Mazur, Paweł O. Are there topological black-hole solitons in string theory? **89b:83054**
McLaughlin, John *see* **Jensen, Bruce; et al., 89m:83050**
Melek, M. *see* **Balek, V.; et al., 89b:83051**
Menon, V. J. *see* **Lahiri, J., 89f:83063**
Milton, Kimball A. *see* **Birmingham, Danny; et al., 89j:83044**
Miró Rodríguez, C. *see* **Díaz Bejarano, J., 89f:83062**
Myers, Robert C. (*with* Simon, Jonathan Z.) Black-hole thermodynamics in Lovelock gravity. **89i:83041**
Nambu, Yasusada (*with* Sasaki, Misao) The wave function of a collapsing dust sphere inside the black hole horizon. **89d:83042**
Natividade, C. P. *see* **Lemos, Nivaldo A., 89d:83041**
Nesteruk, A. V. *see* **Grib, A. A.; et al., 89e:83037**
Ottewill, Adrian (*with* Takagi, Shin) Radiation by moving mirrors in curved space-time. **89m:83053**
— *see also* **Jensen, Bruce; et al., 89m:83050**
Petráš, M. *see* **Balek, V.; et al., 89b:83051**
Poisson, E. (*with* Israel, W.) Structure of the black hole nucleus. **89j:83047**
Price, Richard H. *see* **Thorne, Kip S.; et al., (89b:83002)**
Pritomanov, S. A. *see* **Grib, A. A.; et al., 89e:83037**
Redmount, Ian H. (*with* Takagi, Shin) Hyperspherical Rindler space, dimensional reduction, and de Sitter-space scalar field theory. **89f:83064**
Roman, Thomas A. Mining a charged black hole and the third law of black hole thermodynamics. **89i:83042**
Roman′kov, V. V. *see* **Gusynin, V. P., 89d:83040**
Rozhanskiĭ, L. V. Hawking temperature and fluctuations of a scalar field in a de Sitter space. **89m:83054**
— *see also* **Grishchuk, L. P.; et al., 89b:83052**
Sahni, Varun Scalar field fluctuations and infrared divergent states in cosmological models with power law expansion. **89d:83043**
Sánchez, Norma Quantum field theory and the "elliptic interpretation" of de Sitter spacetime. **89b:83055**
— Field and string quantization in curved space-times. **89m:83055**
— Semiclassical quantum gravity in two and four dimensions. **89i:83043**
— Generalized analytic mappings and flat-space models of Hawking radiation. **89j:83048**

Sannan, Sigurd Heuristic derivation of the probability distributions of particles emitted by a black hole. **89d:83044**

Sasaki, Misao *see* **Nambu, Yasusada, 89d:83042**

Shen, You Gen The wave equation in a Kerr-Newman-Kasuya background spacetime. (Chinese) **89b:83056**

Shimoda, Seiro *see* **Arai, Kenzo, 89m:83044**

Simon, Jonathan Z. *see* **Myers, Robert C., 89i:83041**

Sinha, Sukanya (*with* Hu, B. L.) Symmetry behavior in cosmological spacetimes: effect of slowly varying background fields. **89j:83049**

Stelle, K. S. *see* **Boulware, David G.; et al., (89b:81008)**

Strominger, Andrew *see* **Bowick, M. J.; et al., 89j:83045**

Takagi, Shin *see* **Redmount, Ian H., 89f:83064** *and* **Ottewill, Adrian, 89m:83053**

Thorne, Kip S. (*with* Zurek, Wojciech H.; Price, Richard H.) The thermal atmosphere of a black hole. (*see* **89b:83002**)

Zel′dovich, Ya. B. *see* **Grishchuk, L. P.; et al., 89b:83052**

Zhou, Min Yao (*with* Chen, Liang Fan) Partition function and energy density of a scalar field at finite temperature in Robertson-Walker spacetime. **89e:83041**

(Zhu, Shi Chang) *see* **Luan, De Huai, 89a:83039**

Zurek, Wojciech H. *see* **Thorne, Kip S.; et al., (89b:83002)**

Items with secondary classifications in 83C47

Actor, Alfred One-loop Feynman diagram zeta functions for toroidal spacetime. **89k:81097**

Aliev, A. N. (*with* Gal′tsov, D. V.) Energetics of magnetized black holes: effective ergospheres and superradiance. **89i:83011**

Allen, Bruce *see* **Pathinayake, Chandra; et al., 89b:81160**

Biesiada, Marek *see* **Szydłowski, Marek; et al., 89d:83069**

Blau, Steven K. (*with* Visser, Matt; Wipf, Andreas) Determinants of conformal wave operators in four dimensions. **89i:81086**

Brown, J. David (*with* Teitelboim, Claudio) Neutralization of the cosmological constant by membrane creation. **89d:83081**

Buchdahl, H. A. On the compatibility of relativistic wave equations in Riemann spaces. V. **89a:81086**

Bukhbinder, I. L. (*with* Odintsov, S. D.; Shapiro, I. L.) Equations of the renormalization group and asymptotic conformal invariance in an external gravitational field. (Russian) (*see* **89d:81001**)

Caianiello, Eduardo R. (*with* Gasperini, M.; Predazzi, E.; Scarpetta, G.) On the confining aspects of a conformally flat geometry. **89j:81138**

Castagnino, Mario (*with* Domenech, G.; Noriega, R. J.; Schifini, C. G.) On a Weyl-type theorem for higher-order Lagrangians. **89a:83044**

— *see also* **Mazzitelli, F. D.; et al., 89a:81105**

Chimento, Luis P. (*with* Jakubi, Alejandro S.) How to get Casimir effect and trace anomaly results without use of regularization. **89e:81103**

Coleman, Sidney Black holes as red herrings: topological fluctuations and the loss of quantum coherence. **89i:83037**

Davies, P. C. W. Cosmological horizons and entropy. **89m:83062**

Deng, Yaobing (*with* Mannheim, Philip D.) Self-consistent solution for a scalar field coupled conformally to a Robertson-Walker geometry. **89a:81088**

Domenech, G. (*with* Levinas, M. L.; Sánchez, Norma) Quantum field theory and the antipodal identification of space time. **89k:81099**

— *see also* **Castagnino, Mario; et al., 89a:83044**

Duncan, M. J. (*with* Segrè, G.; Wheater, J. F.) Topological stability in higher-dimensional theories. **89j:83075**

Elizalde, E. (*with* Tarrach, R.) Interacting $\lambda\varphi^4$ on a Schwarzschild background metric. (Italian and Russian summaries) **89i:81088**

— Exact solutions of the massive Klein-Gordon-Schwarzschild equation. **89i:81089**

Ellis, G. F. R. (*with* Stoeger, William R.) Horizons in inflationary universes. **89h:83043**

Endo, Ryusuke (*with* Takao, Masaru) Chiral anomalies of antisymmetric tensor gauge fields in higher dimensions. **89a:81089**

— Gravitational anomaly and path integral Jacobian of antisymmetric tensor gauge field. **89i:81090**

Fulling, S. A. (*with* Ruijsenaars, S. N. M.) Temperature, periodicity and horizons. **89a:81091**

Gal′tsov, D. V. *see* **Aliev, A. N., 89i:83011**

Gasperini, M. *see* **Caianiello, Eduardo R.; et al., 89j:81138**

Gertsenshteĭn, M. E. (*with* Soloveĭ, L. G.) Invariant and reduced action of a physical system in the general theory of relativity. (Russian) **89b:83014**

Giddings, Steven B. (*with* Strominger, Andrew) Loss of incoherence and determination of coupling constants in quantum gravity. **89i:83036**

Grisaru, Marcus T. *see* **de Wit, B., 89k:81083**

Hartle, James B. Quantum kinematics of spacetime. I. Nonrelativistic theory. **89h:81144**

Heiderich, K. (*with* Unruh, W.) Spin-two fields, general covariance, and conformal invariance. **89i:81093**

't Hooft, G. Nonperturbative 2 particle scattering amplitudes in $2+1$-dimensional quantum gravity. **89h:83022**

Howe, P. S. (*with* Papadopoulos, G.; Stelle, K. S.) The background field method and the nonlinear σ-model. **89e:81108**

Huggins, S. R. (*with* Kunstatter, G.; Leivo, H. P.; Toms, David J.) The Vilkovisky-DeWitt effective action for quantum gravity. **89j:83040**

Jakubi, Alejandro S. *see* **Chimento, Luis P., 89e:81103**

Kandrup, Henry E. Entropy generation in curved spaces as a diagnostic for particle creation. **89a:81093**

Kay, Bernard S. Quantum field theory in curved spacetime. **89k:81104**

Klimčík, Ctirad Quantum field theory in a gravitational shock wave background. **89h:81145**

Kunstatter, G. *see* **Huggins, S. R.; et al., 89j:83040**

Laflamme, R. The Euclidean vacuum: justification from quantum cosmology. **89a:83037**

Langouche, F. (*with* Leutwyler, H.) Two-dimensional fermion determinants as Wess-Zumino actions. **89c:81086**

Leivo, H. P. *see* **Huggins, S. R.; et al., 89j:83040**

Leutwyler, H. *see* **Langouche, F., 89c:81086**

Levinas, M. L. *see* **Domenech, G.; et al., 89k:81099**

Lieberman, Bennett (*with* Rogers, Barrett) Adiabatic methods in the functional Schrödinger picture. **89k:81106**

Mannheim, Philip D. *see* **Deng, Yaobing, 89a:81088**

Matyjasek, Jerzy $\langle\varphi^2\rangle_{\mathrm{REG}}$ in Schwarzschild-de Sitter spacetime. **89i:81095**

Mazzitelli, F. D. (*with* Paz, J. P.; Castagnino, Mario) Cauchy data and Hadamard singularities in time-dependent backgrounds. **89a:81105**

— *see also* **Paz, J. P., 89h:81146**

Mishima, Takashi (*with* Nakayama, Akihiro) Notes on the Hawking effect in de Sitter space. I. **89e:81118a**

Nakayama, Akihiro Notes on the Hawking effect in de Sitter space. II. **89e:81118b**

— *see also* **Mishima, Takashi, 89e:81118a**

Namsraĭ, Kh. Quantum space-time: a review. **89k:83063**

Noriega, R. J. *see* **Castagnino, Mario; et al., 89a:83044**

Obukhov, Yu. N. (*with* Pronin, P. I.) Renormalization of gauge field theories in Riemann-Cartan space-time. I. Abelian models. **89m:81110**

Odintsov, S. D. Casimir effect in multidimensional quantum supergravities and supersymmetry breaking. **89i:83057**

— *see also* **Bukhbinder, I. L.; et al., (89d:81001)**

Papadopoulos, G. *see* **Howe, P. S.; et al., 89e:81108**

Parker, Leonard (*with* Toms, David J.) Renormalisation group methods in curved spacetime. (*see* **89b:81008**)

Parthasarathy, Ragavachariar On certain aspects of Kaluza-Klein theory. **89e:83075**

Pathinayake, Chandra (*with* Vilenkin, Alexander; Allen, Bruce) Massless scalar and antisymmetric tensor fields in de Sitter space. **89b:81160**

Paz, J. P. (*with* Mazzitelli, F. D.) The backreaction problem for self-interacting scalar fields: one loop and Gaussian approximations. **89h:81146**

— *see also* **Mazzitelli, F. D.; et al., 89a:81105**

Predazzi, E. *see* **Caianiello, Eduardo R.; et al., 89j:81138**

Pronin, P. I. *see* **Obukhov, Yu. N., 89m:81110**

Reuter, M. Chiral anomaly of antisymmetric tensor fields. **89f:81208**

Rogers, Barrett *see* **Lieberman, Bennett, 89k:81106**

Ruijsenaars, S. N. M. *see* **Fulling, S. A., 89a:81091**

Russell, I. H. (*with* Toms, David J.) Vacuum energy for massive forms in $\mathbf{R}^M \times S^N$. **89b:81162**

Sánchez, Norma *see* **de Vega, H. J., 89e:81123** *and* **Domenech, G.; et al., 89k:81099**

Scarpetta, G. *see* **Caianiello, Eduardo R.; et al., 89j:81138**

Schifini, C. G. *see* **Castagnino, Mario; et al., 89a:83044**

Segrè, G. *see* **Duncan, M. J.; et al., 89j:83075**

Shapiro, I. L. *see* **Bukhbinder, I. L.; et al., (89d:81001)**

Shen, You Gen Kaluza-Klein cosmology with matter field quanta. (Chinese) (Not in MR)

Soloveĭ, L. G. *see* **Gertsenshteĭn, M. E., 89b:83014**

Spindel, Ph. Back-reaction of a scalar quantum field on curved space: an exact solution of the semiclassical equations. **89i:81097**

Stawicki, Tadeusz *see* **Szydłowski, Marek; et al., 89h:83036**

Stelle, K. S. *see* **Howe, P. S.; et al., 89e:81108**

Stoeger, William R. *see* **Ellis, G. F. R., 89h:83043**

Strominger, Andrew *see* **Giddings, Steven B., 89i:83036**

Szczęsny, Jerzy *see* **Szydłowski, Marek; et al., 89d:83069** *and* **89h:83036**

Szydłowski, Marek (*with* Szczęsny, Jerzy; Biesiada, Marek) Quantum effects in multidimensional homogeneous cosmological models. **89d:83069**

— (*with* Szczęsny, Jerzy; Stawicki, Tadeusz) The dimensional reduction in the Kantowski-Sachs $\times T^D$ model with quantum corrections. **89h:83036**

Tadaki, Shin Ichi Renormalized stress tensor and field fluctuation in a Friedmann universe. Application of Hadamard regularization. **89f:81140**

Takao, Masaru *see* **Endo, Ryusuke, 89a:81089**

Tarrach, R. *see* **Elizalde, E., 89i:81088**

Teitelboim, Claudio *see* **Brown, J. David, 89d:83081**

Tomimatsu, A. Scalar-coupled black holes in classical Kaluza-Klein theory with the Lovelock Lagrangian. **89g:83050**

Toms, David J. *see* **Russell, I. H., 89b:81162; Huggins, S. R.; et al., 89j:83040** *and* **Parker, Leonard, (89b:81008)**

Unruh, W. *see* **Heiderich, K., 89i:81093**

Vasil′ev, M. A. Free massless fields of arbitrary spin in the de Sitter space and initial data for a higher spin superalgebra. **89b:81094**

— Linearized curvatures of auxiliary fields in anti-de Sitter space. **89j:81148**

de Vega, H. J. (*with* Sánchez, Norma) String quantization in accelerated frames and black holes. **89e:81123**

Vilenkin, Alexander *see* **Pathinayake, Chandra; et al., 89b:81160**

Visser, Matt *see* **Blau, Steven K.; et al., 89i:81086**

Wheater, J. F. *see* **Duncan, M. J.; et al., 89j:83075**

Whitt, Brian Spherically symmetric solutions of general second-order gravity. **89k:83064**

Wipf, Andreas *see* **Blau, Steven K.; et al., 89i:81086**

de Wit, B. (*with* Grisaru, Marcus T.) Compensating fields and anomalies. **89k:81083**

83C50 Electromagnetic fields

Aichelburg, P. C. (*with* Embacher, F.) Lightlike contractions in curved spacetime. **89d:83045**

Cohen, Jeffrey Marshal *see* **Mustafa, Errol; et al., 89b:83057**

Coll, Bartolomé (*with* Ferrando, Joan Josep) On the permanence of the null character of Maxwell fields. **89c:83038**

Couch, W. E. *see* **Torrence, R. J., 89k:83045**

Crupi, Giovanni The relative formulation of electrodynamics in general relativity. (Italian. English summary) **89m:83056**

Embacher, F. *see* **Aichelburg, P. C., 89d:83045**

Eriksen, E. *see* **Grøn, Ø., 89m:83057**

Ferrando, Joan Josep *see* **Coll, Bartolomé, 89c:83038**

Fushchich, V. I. (*with* Tsifra, I. M.) Conformally invariant nonlinear equations for an electromagnetic field. (Russian) (*see* **89d:81001**)

Grøn, Ø. (*with* Eriksen, E.) Translational inertial dragging. **89m:83057**

Helliwell, T. M. *see* **Konkowski, D. A., 89k:83043**
Ishihara, Hideki (*with* Takahashi, Masaaki; Tomimatsu, A.) Gravitational Faraday rotation induced by a Kerr black hole. **89m:83058**
Kerner, Richard Électrodynamique non linéaire en théorie de Kaluza et Klein. (English summary) [Nonlinear electrodynamics in Kaluza-Klein theory] **89k:83042**
Konkowski, D. A. (*with* Helliwell, T. M.) Electromagnetic fields in a Taub-NUT-type cosmology. **89k:83043**
Leroy, Jules A radiative, twisting, type II, aligned Einstein-Maxwell field. **89e:83042**
Löffelholz, Jürgen (*with* Pestov, A.) Gravitation and polarization properties of an electromagnetic field. (Russian. English summary) **89k:83044**
Lu, Hui Qing (*with* Yu, Wen Guang) The gauge invariance of electromagnetic fields and the transmission of light in a gravitational field. (Chinese. English summary) **89m:83059**
Moschetti, G. A conservation law of geometric optics in general relativity. (Italian. English summary) (Not in MR)
Mustafa, Errol (*with* Cohen, Jeffrey Marshal; Pechenick, Kay R.) Angular momentum, magnetic moment, and g-factor in general relativity. **89b:83057**
Pechenick, Kay R. *see* **Mustafa, Errol; et al., 89b:83057**
Pestov, A. *see* **Löffelholz, Jürgen, 89k:83044**
Takahashi, Masaaki *see* **Ishihara, Hideki; et al., 89m:83058**
Tomimatsu, A. *see* **Ishihara, Hideki; et al., 89m:83058**
Torrence, R. J. (*with* Couch, W. E.) Progressing waves on spherical spacetimes. **89k:83045**
Tsifra, I. M. *see* **Fushchich, V. I., (89d:81001)**
Yu, Wen Guang *see* **Lu, Hui Qing, 89m:83059**

Items with secondary classifications in 83C50

Akabari, R. P. *see* **Patel, L. K.; et al., 89f:83028**
de Araujo, M. E. (*with* Skea, James E. F.) Automorphisms in action: spatially homogeneous Einstein-Maxwell plane waves. **89f:83050**
Bagrov, V. G. (*with* Obukhov, V. V.; Osetrin, K. E.) Stäckel spaces of an electrovacuum of type (1, 1). (Russian) **89f:83035**
— (*with* Obukhov, V. V.; Osetrin, K. E.) Classification of null-Stäckel electrovac metrics with cosmological constant. **89m:83011**
— (*with* Obukhov, V. V.; Osetrin, K. E.) Stäckel electrovacuum spaces with isotropic complete sets of type (1.1). **89k:83025**
Baranov, A. M. (*with* Paklin, N. N.) The internal source of Vaidya's solution. **89f:83017**
Bażański, S. L. (*with* Kostyukovich, N. N.) Dynamics of relative motion of charged test particles in general relativity. **89b:83013**
— (*with* Kostyukovich, N. N.) On first integrals of the electromagnetic deviation equations. **89g:83019**
Bhuyan, G. B. *see* **Nayak, B. K., 89b:83028**
Cai, Y. Q. (*with* Papini, G.) The equation of deviation in a conformally invariant theory of gravitation and electromagnetism. **89d:83077**
Chandrasekhar, Subrahmanyan (*with* Xanthopoulos, Basilis C.) The effect of sources on horizons that may develop when plane gravitational waves collide. **89c:83030**
Dave, U. K. *see* **Patel, L. K.; et al., 89f:83028**
Debever, R. On Einstein-Maxwell null fields in type D. **89f:83018**
Deng, Yaobing (*with* Mannheim, Philip D.) Perfect Maxwell fluids in the standard cosmology. **89i:83013**
Dubey, G. S. *see* **Pandey, U. S.; et al., 89k:83019**
Duggal, K. L. Relativistic fluids with shear and timelike conformal collineations. **89b:83044**
Faridi, Abbas M. Einstein-Maxwell equations and the conformal Ricci collineations. **89a:83033**
Gutsunaev, Ts. I. (*with* Man′ko, V. S.) On the gravitational field of a mass possessing a magnetic dipole moment. **89c:83014**
— (*with* Man′ko, V. S.) New static solutions of the Einstein-Maxwell equations. **89m:83015**
Halilsoy, Mustafa Colliding electromagnetic shock waves in general relativity. **89h:83008**
Han, Ji Chang Interior solutions of field equations for a charged sphere. (Chinese. English summary) **89i:83018**
— Static solutions of the Einstein-Maxwell field equations. (Chinese. English summary) **89j:83012**
Hou, Bo Yu (*with* Li, Wei^{7}) New symmetries in stationary, axially symmetric Einstein-Maxwell fields. (Chinese. English summary) **89f:83052**
— (*with* Li, Wei^{7}) Generating functions with new hidden symmetries for cylindrically symmetric gravitational fields. **89k:83039**
Il′ichev, A. T. *see* **Sibgatullin, N. R., 89f:83030**
Kazanas, Demosthenes *see* **Mannheim, Philip D., 89g:83060**
Khlebnikov, V. I. Strong gravitational waves in semiclosed electromagnetic universes. The complete system of Newman-Penrose equations and the radial dependence of the field variables. (Russian) **89e:83031**
Koijam, Manihar Singh Slowly-rotating charged viscous-fluid universes: exact solutions. **89f:83024**
Koppar, S. S. *see* **Patel, L. K., 89j:83024**
Kostyukovich, N. N. *see* **Bażański, S. L., 89b:83013** *and* **89g:83019**
Kramer, Dietrich Two charged masses in equilibrium. **89m:83021**
Li, Wei^{7} *see* **Hou, Bo Yu, 89f:83052** *and* **89k:83039**
Liu, Hong Ya Exact plane-wave solutions of Einstein-Maxwell equations under the harmonic condition. **89f:83026**
Macdonald, Douglas A. (*with* Thorne, Kip S.; Price, Richard H.; Zhang, Xiao-He) Astrophysical applications of black-hole electrodynamics. (*see* **89b:83002**)
Man′ko, V. S. *see* **Gutsunaev, Ts. I., 89c:83014** *and* **89m:83015**
Mannheim, Philip D. (*with* Kazanas, Demosthenes) Energy-momentum tensor of fields in the standard cosmology. **89g:83060**
— *see also* **Deng, Yaobing, 89i:83013**
Medina, V. (*with* Núñez, L.; Rago, H.; Patiño, A.) Evolution of radiating charged spheres in general relativity. (French summary) **89m:83061**
Müller-Hoissen, Folkert (*with* Sippel, Reinhard) Spherically symmetric solutions of the nonminimally coupled Einstein-Maxwell equations. **89k:83018**
Nayak, B. K. (*with* Bhuyan, G. B.) Bianchi type V perfect fluid models with source-free electromagnetic fields. **89b:83028**
Núñez, L. *see* **Medina, V.; et al., 89m:83061**
Obukhov, V. V. *see* **Bagrov, V. G.; et al., 89f:83035; 89k:83025** *and* **89m:83011**
Osetrin, K. E. *see* **Bagrov, V. G.; et al., 89f:83035; 89k:83025** *and* **89m:83011**
Paklin, N. N. *see* **Baranov, A. M., 89f:83017**
Pandey, U. S. (*with* Dubey, G. S.; Singh, S. N.; Singh, D. R.) Plane-symmetric magnetofluid cosmological models. **89k:83019**
Papacostas, Taxiarchis (*with* Xanthopoulos, Basilis C.) Collisions of gravitational and electromagnetic waves that do not develop curvature singularities. **89m:83035**
Papini, G. *see* **Cai, Y. Q., 89d:83077**
Patel, L. K. (*with* Akabari, R. P.; Dave, U. K.) Radiating Demiański-type metrics and the Einstein-Maxwell fields. **89f:83028**
— (*with* Koppar, S. S.) Rotating Bianchi type II, VIII and IX universes with an electromagnetic field. **89j:83024**
Patiño, A. *see* **Medina, V.; et al., 89m:83061**
Price, Richard H. *see* **Macdonald, Douglas A.; et al., (89b:83002)**
Rago, H. *see* **Medina, V.; et al., 89m:83061**
Reula, Oscar Initial data sets of minimal energy. **89i:83008**
Sibgatullin, N. R. (*with* Il′ichev, A. T.) A new method for the integration of equations for axisymmetric and stationary electrovacuum fields and the construction of their general solution. (Russian) **89f:83030**
Singh, D. R. *see* **Pandey, U. S.; et al., 89k:83019**
Singh, N. Ibotombi *see* **Tarachand, R. K., 89k:83022**
Singh, S. N. *see* **Pandey, U. S.; et al., 89k:83019**
Sippel, Reinhard *see* **Müller-Hoissen, Folkert, 89k:83018**
Skea, James E. F. *see* **de Araujo, M. E., 89f:83050**
Tarachand, R. K. (*with* Singh, N. Ibotombi) Cosmological viscous fluid models in the presence of electromagnetic field and zero-mass scalar field. **89k:83022**
Thorne, Kip S. *see* **Macdonald, Douglas A.; et al., (89b:83002)**
Torres del Castillo, G. F. The separability of Maxwell's equations in type-D backgrounds. **89e:83034**
Wei, Mo Zheng The electromagnetic radiation of a charged particle in a Reissner-Nordström field and its damping. (Chinese. English summary) (Not in MR)
Xanthopoulos, Basilis C. *see* **Chandrasekhar, Subrahmanyan, 89c:83030** *and* **Papacostas, Taxiarchis, 89m:83035**
Zhang, Xiao-He *see* **Macdonald, Douglas A.; et al., (89b:83002)**

83C55 Hydrodynamics [see also 76Y05]

Anderson, Malcolm R. (*with* Lemos, Jose P. S.) Viscous shear in the Kerr metric. **89f:83065**
Asgekar, G. G. (*with* Patwardhan, C. G.) General relativistic aspects of ferromagneto-fluid. **89b:83058**
Bludman, Sidney A. *see* **Schinder, Paul J.; et al., 89e:83045**
Carbonaro, P. Exceptional relativistic gas dynamics. **89d:83046**
Coll, Bartolomé (*with* Ferrando, Joan Josep) Sur les vitesses des fluides parfaits barotropes. (English summary) [On the velocity of the barotropic perfect fluids] **89h:83026**
Collins, C. B. Homogeneous and hypersurface-homogeneous shear-free perfect fluids in general relativity. **89m:83060**
Daishev, R. A. Isometric motions of an ideal charged fluid. (Russian) **89b:83059**
Ferrando, Joan Josep *see* **Coll, Bartolomé, 89h:83026**
Hawley, John F. General relativistic hydrodynamics near black holes. (*see* **89b:83004**)
Hiscock, William A. (*with* Lindblom, Lee) Stability in dissipative relativistic fluid theories. **89i:83044**
— General relativistic fluid spheres with nonzero vacuum energy density. **89g:83030**
Kolassis, C. A. (*with* Santos, N. O.; Tsoubelis, D.) Energy conditions for an imperfect fluid. **89j:83050**
Kopczyński, Wojciech A fluid of multidimensional objects. **89e:83043**
Krisch, J. P. (*with* Smalley, Larry L.) Cartan and relativistic spin fluids in a rotating cylinder. **89g:83031**
Lemos, Jose P. S. *see* **Anderson, Malcolm R., 89f:83065**
Lindblom, Lee Static uniform-density stars must be spherical in general relativity. **89e:83044**
— *see also* **Hiscock, William A., 89i:83044**
Mansouri, R. (*with* Rakei, A.) Distribution function of a collisionless gas in the de Sitter spacetime. **89a:83040**
Masood-ul-Alam, A. K. M. A proof of the uniqueness of static stellar models with small $d\rho/dp$. **89h:83027**
Medina, V. (*with* Núñez, L.; Rago, H.; Patiño, A.) Evolution of radiating charged spheres in general relativity. (French summary) **89m:83061**
Muscato, Orazio Lagrangian formalism in relativistic magnetohydrodynamics. (Italian) **89k:83046**
Núñez, L. *see* **Medina, V.; et al., 89m:83061**
Patiño, A. *see* **Medina, V.; et al., 89m:83061**
Patwardhan, C. G. *see* **Asgekar, G. G., 89b:83058**
Petrich, Loren I. (*with* Shapiro, Stuart L.; Teukolsky, Saul A.) Accretion onto a moving black hole: an exact solution. **89b:83060**
Piran, Tsvi *see* **Schinder, Paul J.; et al., 89e:83045**
Rago, H. *see* **Medina, V.; et al., 89m:83061**
Rakei, A. *see* **Mansouri, R., 89a:83040**
Santos, N. O. *see* **Kolassis, C. A.; et al., 89j:83050**
Schinder, Paul J. (*with* Bludman, Sidney A.; Piran, Tsvi) General-relativistic implicit hydrodynamics in polar-sliced space-time. **89e:83045**
Shapiro, Stuart L. *see* **Petrich, Loren I.; et al., 89b:83060**
Singh, Koijam Manihar Radiating fluid distribution interacting with scalar field. **89i:83045**
Singh, N. Ibotombi *see* **Tarachand, R. K., 89f:83066**
Smalley, Larry L. *see* **Krisch, J. P., 89g:83031**
Tarachand, R. K. (*with* Singh, N. Ibotombi) Nonexistence of interactions between axially symmetric massive scalar field and perfect fluid distribution. **89f:83066**
Teukolsky, Saul A. *see* **Petrich, Loren I.; et al., 89b:83060**
Tsoubelis, D. *see* **Kolassis, C. A.; et al., 89j:83050**

Items with secondary classifications in 83C55

Anikanov, V. A. *see* **Zakharov, Alekseĭ Vasilevich, 89e:83094**
Anile, A. M. (*with* Moschetti, G.; Bogoyavlenskiĭ, O. I.) Some solutions of Einstein's equations with shock waves. **89b:83018**
Bali, Raj (*with* Jain, Deepak Raj) Some expanding and shearing viscous fluid cosmological models in general relativity. **89d:83017**
Banerjee, Asit Kumar (*with* Sanyal, Abhik Kumar) Irrotational Bianchi V viscous fluid cosmology with heat flux. **89b:83032**
Banerjee, Shyamal Kumar *see* **Roy, S. R., 89k:83020**
Berger, Sonia (*with* Hojman, Roberto; Santamarina, Jorge) General exact solutions of Einstein equations for static perfect fluids with spherical symmetry. **89a:83011**
Bogoyavlenskiĭ, O. I. *see* **Anile, A. M.; et al., 89b:83018**
Bray, Marcel Cosmologies non homogènes et anisotropes correspondant à l'équation d'état $\rho = p$. (Italian summary) [Nonhomogeneous anisotropic cosmologies corresponding to the equation of state $\rho = p$] **89b:83020**
Chandrasekhar, Subrahmanyan (*with* Xanthopoulos, Basilis C.) The effect of sources on horizons that may develop when plane gravitational waves collide. **89c:83030**
Collins, C. B. *see* **Lang, J. M., 89j:83020**
Davidson, W. A note on plane-symmetric static perfect-fluid spacetimes. **89c:83013**
Dehnen, H. *see* **Rose, B.; et al., 89m:83031**
Deruelle, Nathalie (*with* Linet, B.) A cosmic string shock wave. **89e:83088**
Díaz, Mario *see* **Gleiser, Reinaldo; et al., 89f:83020**
Dubey, G. S. *see* **Pandey, U. S.; et al., 89k:83019**
Duggal, K. L. Relativistic fluids with shear and timelike conformal collineations. **89b:83044**
García Díaz, Alberto (*with* Hauser, Isidore) Type-D rigidly rotating perfect fluid solutions. **89a:83028**
Gleiser, Reinaldo (*with* Díaz, Mario; Grosso, Roberto D.) Phase transitions in perturbed stiff fluid Friedmann-Robertson-Walker cosmological models. **89f:83020**
Grosso, Roberto D. *see* **Gleiser, Reinaldo; et al., 89f:83020**
Hauser, Isidore *see* **García Díaz, Alberto, 89a:83028**
Hojman, Roberto *see* **Berger, Sonia; et al., 89a:83011**
Jain, Deepak Raj *see* **Bali, Raj, 89d:83017**
Kaneko, Noboru *see* **Morita, Kazuhiko, 89h:76050**
Kazanas, Demosthenes *see* **Mannheim, Philip D., 89g:83060**
Kolassis, C. A. (*with* Santos, N. O.; Tsoubelis, D.) Friedmann-like collapsing model of a radiating sphere with heat flow. **89a:83017**
Koppar, S. S. *see* **Patel, L. K., 89j:83024**
Kramer, Dietrich Cylindrically symmetric static perfect fluids. **89a:83019**
Kyriakopoulos, E. A class of solutions of Einstein's equations for the interior of a rigidly rotating perfect fluid. **89m:83025**
Lang, J. M. (*with* Collins, C. B.) Observationally homogeneous shear-free perfect fluids. **89j:83020**
Letelier, P. S. (*with* Verdaguer, E.) Anisotropic fluid with SU(2)-type structure in general relativity: a model of localized matter. **89c:83017**
Linet, B. *see* **Deruelle, Nathalie, 89e:83088**
Lungu, N. On the stability of certain relativistic polytropes. **89f:85005**
Maartens, R. (*with* Maharaj, S. D.) Invariant solutions of Liouville's equation in Robertson-Walker space-times. **89b:83045b**
— *see also* **Maharaj, S. D., 89b:83045a** *and* **Mason, D. P., 89b:83046**
Maharaj, S. D. (*with* Maartens, R.) General solution of Liouville's equation in Robertson-Walker space-times. **89b:83045a**
— *see also* **Maartens, R., 89b:83045b**
Majorana, Armando Finite moment equations for a relativistic simple gas. **89f:82036**
Mannheim, Philip D. (*with* Kazanas, Demosthenes) Energy-momentum tensor of fields in the standard cosmology. **89g:83060**
Martín-Pascual, F. (*with* Senovilla, J. M. M.) Petrov types D and II perfect-fluid solutions in generalized Kerr-Schild form. **89f:83044**
Mason, D. P. (*with* Maartens, R.) Kinematics and dynamics of conformal collineations in relativity. **89b:83046**
Mórita, Kazuhiko (*with* Kaneko, Noboru) The modified Lagrangian equations of general-relativistic hydrodynamics for a nonideal fluid. **89h:76050**
Moschetti, G. *see* **Anile, A. M.; et al., 89b:83018**
Pandey, U. S. (*with* Dubey, G. S.; Singh, S. N.; Singh, D. R.) Plane-symmetric magnetofluid cosmological models. **89k:83019**
Papacostas, Taxiarchis Hauser-Malhiot spaces admitting a perfect fluid energy-momentum tensor. **89e:83021**
Patel, L. K. (*with* Koppar, S. S.) Rotating Bianchi type II, VIII and IX universes with an electromagnetic field. **89j:83024**
Ponce de León, J. Weyl curvature tensor in static spherical sources. **89b:83029**
Rahmstorf, S. *see* **Rose, B.; et al., 89m:83031**
Reddy, D. R. K. A plane-symmetric universe in the presence of zero-mass scalar fields. **89a:83023**
Robinson, David C. Half-flat solutions of Einstein's equation and hyper-Kähler structures. (*see* **89m:83003**)
Rose, B. (*with* Rahmstorf, S.; Dehnen, H.) Propagation of self-gravitating density waves in the De Donder gauge on a gravitational background field. **89m:83031**
Roy, S. R. (*with* Banerjee, Shyamal Kumar) Some cylindrically-symmetric cosmological models in general relativity representing viscous fluid and perfect fluid with heat conduction. **89k:83020**
Santamarina, Jorge *see* **Berger, Sonia; et al., 89a:83011**
Santos, N. O. *see* **Kolassis, C. A.; et al., 89a:83017**
Sanyal, Abhik Kumar *see* **Banerjee, Asit Kumar, 89b:83032**
Senovilla, J. M. M. Stationary axisymmetric perfect-fluid metrics with $q + 3p = \mathrm{const}$. **89c:83024**
— *see also* **Martín-Pascual, F., 89f:83044**
Singh, D. R. *see* **Pandey, U. S.; et al., 89k:83019**
Singh, N. Ibotombi *see* **Tarachand, R. K., 89k:83022**
Singh, S. N. *see* **Pandey, U. S.; et al., 89k:83019**
Stephani, H. Symmetries of Einstein's field equations with a perfect fluid source as examples of Lie-Bäcklund symmetries. **89f:83054**
Sussman, Roberto A. On spherically symmetric shear-free perfect fluid configurations (neutral and charged). II. Equation of state and singularities. **89f:83031a**
— On spherically symmetric shear-free perfect fluid configurations (neutral and charged). III. Global view. **89f:83031b**
Tarachand, R. K. (*with* Singh, N. Ibotombi) Cosmological viscous fluid models in the presence of electromagnetic field and zero-mass scalar field. **89k:83022**
Tsoubelis, D. *see* **Kolassis, C. A.; et al., 89a:83017**
Van den Bergh, N. Comment on conformally Ricci-flat perfect fluids of Petrov-type N. **89b:83037**
— ORTHOFRAME: a MAPLE package for performing calculations in the orthonormal tetrad formalism. **89j:83002**
Verdaguer, E. *see* **Letelier, P. S., 89c:83017**
Xanthopoulos, Basilis C. *see* **Chandrasekhar, Subrahmanyan, 89c:83030**
Zakharov, Alekseĭ Vasilevich (*with* Anikanov, V. A.) Electromagnetic and gravitational perturbations in an ultrarelativistic plasma in an isotropic universe. (Russian) **89e:83094**

83C60 Spinor and twistor methods (use only for secondary classification)

Items with secondary classifications in 83C60

Ashtekar, Abhay A $3 + 1$ formulation of Einstein self-duality. **89i:83006**
— (*with* Jacobson, Ted; Smolin, Lee) A new characterization of half-flat solutions to Einstein's equation. **89f:83010**
Brumă, C. On Dirac matrices in gravitational field. **89d:81077**
Buchdahl, H. A. On the compatibility of relativistic wave equations in Riemann spaces. V. **89a:81086**
Cahen, Michel (*with* Gutt, S.; Lemaire, L.; Spindel, Ph.) Killing spinors. **89d:53122**
Choquet-Bruhat, Yvonne Spin $\frac{1}{2}$ fields in arbitrary dimensions and the Einstein-Cartan theory. **89e:53107**
Endo, Ryusuke Gravitational anomalies: antisymmetric tensor gauge field versus bispinor field. **89b:81154**
Finkelstein, Shlomit Ritz Gravity in hyperspin manifolds. **89i:53052**
Gaina, A. B. *see* **Ternov, I. M., 89j:81146**
Gal'perin, A. S. (*with* Ivanov, Evgeniĭ Alekseevich^2; Ogievetskiĭ, V. I.; Sokatchev, E. S.) Gauge field geometry from complex and harmonic analyticities. II. Hyper-Kähler case. **89i:53054**
Gutt, S. *see* **Cahen, Michel; et al., 89d:53122**
Illge, R. On potentials for several classes of spinor and tensor fields in curved spacetimes. **89j:83053**
Ivancovich, J. (*with* Kozameh, C.; Newman, E. T.) Green's functions of the edh operators. **89j:83027**
Ivanov, Evgeniĭ Alekseevich^2 *see* **Gal'perin, A. S.; et al., 89i:53054**
Jacobson, Ted (*with* Smolin, Lee) Covariant action for Ashtekar's form of canonical gravity. **89e:83011**
— *see also* **Ashtekar, Abhay; et al., 89f:83010**
Kheyfets, Arkady (*with* LaFave, Norman Joseph; Miller, Warner A.) Quantum insights from null-strut geometrodynamics. **89j:83042**
Kozameh, C. *see* **Ivancovich, J.; et al., 89j:83027**
LaFave, Norman Joseph *see* **Kheyfets, Arkady; et al., 89j:83042**
Lemaire, L. *see* **Cahen, Michel; et al., 89d:53122**
Ludwig, Garry Some remarks on general transformation laws for Newman-Penrose variables. **89k:83053**
— Extended Geroch-Held-Penrose formalism. **89d:83033**
Lukierski, J. Supersymmetric extension of twistor formalism. **89a:58009**
Magnon, A. M. R. Unification of gravity and electromagnetism in dimension 4: some peculiar aspects. (Italian and Russian summaries) **89f:53109**
Mason, L. J. *see* **Woodhouse, N. M. J., 89j:83034**
McLenaghan, R. G. (*with* Walton, T. F.) An explicit determination of the nonselfadjoint wave equations on curved space-time that satisfy Huygens' principle. I. Petrov type N background space-times. (French summary) **89h:83014**
Merkulov, S. A. Local supertwistors. **89k:83079**
— $N = 2$ local supertwistors. **89m:83095**
— Twistor connection and the Palatini method. **89f:83012**
Miklashevskiĭ, I. R. Conformal geometry and the Einstein equation. (Russian) **89c:83007**
Miller, Warner A. *see* **Kheyfets, Arkady; et al., 89j:83042**
Moffat, J. W. Spinor fields and the $GL(4, \mathbf{R})$ gauge structure in the nonsymmetric theory of gravitation. **89f:83077**
Ne'eman, Yuval (*with* Šijački, Djordje) $\overline{GL}(4, \mathbf{R})$ group-topology, covariance and curved-space spinors. **89e:22014**
Newman, E. T. *see* **Ivancovich, J.; et al., 89j:83027**
Ogievetskiĭ, V. I. *see* **Gal'perin, A. S.; et al., 89i:53054**
Penrose, Roger Twistors in general relativity. **89b:83067**
— On the origins of twistor theory. **89i:32060**
— (*with* Rindler, Wolfgang) ★ Spinors and space-time. Vol. 2. **89d:83010**
Porter, John R. Asymptotically-flat radiation structures. **89e:83029**
Punsly, Brian Bundle structures in the Kerr space-time. **89d:83023**
Rindler, Wolfgang *see* **Penrose, Roger, 89d:83010**
Samuel, Joseph Gravitational instantons from the Ashtekar variables. **89i:83009**
Shaw, William T. Twistors and strings. **89i:53058**
— Quasi-local mass for "large" spheres. **89j:83029**
Šijački, Djordje *see* **Ne'eman, Yuval, 89e:22014**
Smolin, Lee *see* **Jacobson, Ted, 89e:83011** *and* **Ashtekar, Abhay; et al., 89f:83010**
Sokatchev, E. S. *see* **Gal'perin, A. S.; et al., 89i:53054**
Spindel, Ph. *see* **Cahen, Michel; et al., 89d:53122**
Ternov, I. M. (*with* Gaina, A. B.) Energy spectrum of the Dirac equation in the Schwarzschild and Kerr fields. **89j:81146**
Tod, K. P. The integral constraint vectors of Traschen and three-surface twistors. **89m:83041**
Torre, C. G. The propagation amplitude in spinorial gravity. **89e:83036**

Vakaru, S. I. A twistor-gauge interpretation of the Einstein-Hilbert equations. (Russian) **89h:83005**

Walton, T. F. *see* **McLenaghan, R. G., 89h:83014**

Woodhouse, N. M. J. (*with* Mason, L. J.) The Geroch group and non-Hausdorff twistor spaces. **89j:83034**

Yasskin, Philip B. An ambitwistor approach for gravity. **89c:32077**

Items listed otherwise than by author

New perspectives in canonical gravity ★ New perspectives in canonical gravity. **89m:83003**

83C75 Space-time singularities; cosmic censorship; etc.

Bizoń, Piotr (*with* Malec, Edward; Ó'Murchadha, Niall) Trapped surfaces in spherical stars. **89f:83067**

Borde, Arvind The existence of singularities in general relativity despite isolated failures of geodesic focusing. **89f:83068**

Clarke, C. J. S. (*with* Joshi, Pankaj S.) On reflecting spacetimes. **89b:83061**

— A condition for forming trapped surfaces. **89e:83046**

Davies, P. C. W. Cosmological horizons and entropy. **89m:83062**

Fuchs, Helmut (*with* Kasper, U.; Liebscher, D.-E.; Müller, Volker; Schmidt, Hans-Jürgen) The singularity problem of gravitation. **89m:83063**

Goode, S. W. Vorticity and isotropic singularities. **89f:83069**

Hall, G. S. Singularities and homothety groups in spacetime. **89d:83047**

Joshi, Pankaj S. *see* **Clarke, C. J. S., 89b:83061** *and* **Newman, Richard P. A. C., 89j:83051**

Kasper, U. *see* **Fuchs, Helmut; et al., 89m:83063**

Kirillov, A. A. (*with* Kochnev, A. A.) Cellular structure of space near a singularity in time in Einstein's equations. **89k:83047**

Kochnev, A. A. *see* **Kirillov, A. A., 89k:83047**

Kosso, Peter Spacetime horizons and unobservability. **89e:83047**

Królak, Andrzej Strong cosmic censorship and the strong curvature singularities. **89g:83032**

— The existence of regular partially future asymptotically predictable space-times. **89i:83046**

Kupeli, Demir N. Null cut loci of spacelike surfaces. **89k:83048**

Liebscher, D.-E. *see* **Fuchs, Helmut; et al., 89m:83063**

Lu, Guang Tao The singularities of black holes. (Chinese) (Not in MR)

Malec, Edward *see* **Bizoń, Piotr; et al., 89f:83067**

Mazur, Paweł O. Black hole uniqueness theorems. **89a:83041**

Müller, Volker *see* **Fuchs, Helmut; et al., 89m:83063**

Newman, Richard P. A. C. (*with* Joshi, Pankaj S.) Constraints on the structure of naked singularities in classical general relativity. **89j:83051**

Ó'Murchadha, Niall *see* **Bizoń, Piotr; et al., 89f:83067**

Ove, Roger Numerical investigations of cosmic censorship on $T^3 \times \mathbf{R}$. **89g:83033**

Penrose, Roger Big bangs, black holes and "time's arrow". (*see* **89m:83002**)

Rácz, István Distinguishing properties of causality conditions. **89g:83034**

— Causal boundary of space-times. **89g:83035**

— Causal boundary for stably causal spacetimes. **89h:83028**

Roman, Thomas A. On the "averaged weak energy condition" and Penrose's singularity theorem. **89c:83039**

Schmidt, Hans-Jürgen *see* **Fuchs, Helmut; et al., 89m:83063**

Schoen, Richard M. Spacetime singularities from high matter densities. (*see* **89b:83006**)

Items with secondary classifications in 83C75

Allison, Dean Energy conditions in standard static spacetimes. **89d:53110**

Arai, Kenzo (*with* Shimoda, Seiro) Evolution of evaporating black holes. **89m:83044**

Barrow, John D. String-driven inflationary and deflationary cosmological models. **89m:83098**

Berezin, V. A. (*with* Kuz'min, V. A.) A new possibility of cosmological model construction in Kaluza-Klein theories. **89j:83069**

Bishop, N. T. The event horizons of two Schwarzschild black holes. **89h:83018**

Canarutto, D. An introduction to the geometry of singularities in general relativity. **89m:53130**

Chandrasekhar, Subrahmanyan (*with* Xanthopoulos, Basilis C.) On colliding waves that develop time-like singularities: a new class of solutions of the Einstein-Maxwell equations. **89a:83012**

— (*with* Xanthopoulos, Basilis C.) The effect of sources on horizons that may develop when plane gravitational waves collide. **89c:83030**

Choquet-Bruhat, Yvonne Global problems in general relativity. **89g:83006**

Díaz, Mario (*with* Gleiser, Reinaldo; Pullin, Jorge) No-hair theorems and solitonic instabilities of de Sitter spacetimes. **89i:83031**

Duncan, M. J. (*with* Jensen, L. G.) The quantum cosmology of an anisotropic universe. **89k:83040**

Eardley, D. M. Approximate methods for black hole collisions. **89c:83003**

Economou, Athanasios *see* **Tsoubelis, D., 89b:83030**

Ellis, G. F. R. (*with* Stoeger, William R.) Horizons in inflationary universes. **89h:83043**

Ferrari, V. Focusing process in the collision of gravitational plane waves. **89j:83031**

— (*with* Ibañez, J.) Type-*D* solutions describing the collision of plane-fronted gravitational waves. **89f:83048**

Gleiser, Reinaldo *see* **Díaz, Mario; et al., 89i:83031**

Grishchuk, L. P. (*with* Rozhanskii, L. V.) On the beginning and the end of classical evolution in quantum cosmology. **89i:83069**

Helliwell, T. M. *see* **Konkowski, D. A., 89k:83043**

Ibañez, J. *see* **Ferrari, V., 89f:83048**

Israel, W. *see* **Poisson, E., 89j:83047**

Jensen, L. G. *see* **Duncan, M. J., 89k:83040**

Joshi, Pankaj S. (*with* Joshi, Sonal S.) Quantum effects near the singularity in a general cosmological scenario. **89f:83058a**

— *see also* **Joshi, Sonal S., 89f:83058b**

Joshi, Sonal S. (*with* Joshi, Pankaj S.) Quantum effects near the singularity in a general cosmological scenario. II. **89f:83058b**

— *see also* **Joshi, Pankaj S., 89f:83058a**

Kim, Jin Hwan *see* **Kim, Jong Chul, 89j:53055**

Kim, Jong Chul (*with* Kim, Jin Hwan) Properties of causally continuous space-time. **89j:53055**

Konkowski, D. A. (*with* Helliwell, T. M.) Electromagnetic fields in a Taub-NUT-type cosmology. **89k:83043**

Kossowski, Marek Metric singularity phenomena in pseudo-Riemannian geometry. **89f:53048**

Krige, J. D. *see* **McKenzie, J. F., 89m:83034**

Kupeli, Demir N. Curvature and compact spacelike surfaces in 4-dimensional spacetimes. **89g:53098**

Kuz'min, V. A. *see* **Berezin, V. A., 89j:83069**

Logunov, A. A. *see* **Vlasov, A. A., 89a:83053**

Macdonald, Douglas A. (*with* Price, Richard H.; Suen, Wai-Mo; Thorne, Kip S.) Nonrotating and slowly rotating holes. (*see* **89b:83002**)

— *see also* **Thorne, Kip S.; et al., (89b:83002)**

McKenzie, J. F. (*with* Krige, J. D.) Wave and stability properties of black holes. **89m:83034**

Miller, John Charles (*with* Motta, S.) Computations of spherical gravitational collapse using null slicing. **89k:83002**

Motta, S. *see* **Miller, John Charles, 89k:83002**

Müller, Volker (*with* Schmidt, Hans-Jürgen) Power asymptotes of homogeneous cosmological models in Einstein's theory of gravitation. **89h:83010**

Narlikar, J. V. (*with* Padmanabhan, T.) The Schwarzschild solution: some conceptual difficulties. **89g:83014**

Padmanabhan, T. *see* **Narlikar, J. V., 89g:83014**

Papacostas, Taxiarchis (*with* Xanthopoulos, Basilis C.) Collisions of gravitational and electromagnetic waves that do not develop curvature singularities. **89m:83035**

Poisson, E. (*with* Israel, W.) Structure of the black hole nucleus. **89j:83047**

Price, Richard H. *see* **Macdonald, Douglas A.; et al., (89b:83002)** *and* **Thorne, Kip S.; et al., (89b:83002)**

Pullin, Jorge *see* **Díaz, Mario; et al., 89i:83031**

Roberts, M. D. Axial perturbations of Wyman's solution. **89k:83034**

Rozhanskii, L. V. *see* **Grishchuk, L. P., 89i:83069**

Schmidt, Hans-Jürgen *see* **Müller, Volker, 89h:83010**

Shimoda, Seiro *see* **Arai, Kenzo, 89m:83044**

Stoeger, William R. *see* **Ellis, G. F. R., 89h:83043**

Stoghianidis, E. (*with* Tsoubelis, D.) Polar orbits in the Kerr space-time. **89e:83013**

Suen, Wai-Mo *see* **Macdonald, Douglas A.; et al., (89b:83002)** *and* **Thorne, Kip S.; et al., (89b:83002)**

Tartaglia, A. Gravitational consequences of a broken Lorentz symmetry. (Italian and Russian summaries) **89f:83080**

Thorne, Kip S. (*with* Price, Richard H.; Macdonald, Douglas A.; Suen, Wai-Mo; Zhang, Xiao-He) Rapidly rotating holes. (*see* **89b:83002**)

— *see also* **Macdonald, Douglas A.; et al., (89b:83002)**

Tsoubelis, D. (*with* Economou, Athanasios) Inertial frames and tidal forces along the symmetry axis of the Kerr spacetime. **89b:83030**

— *see also* **Stoghianidis, E., 89e:83013**

Vlasov, A. A. (*with* Logunov, A. A.) The difference between gravitational collapse in the relativistic theory of gravity and collapse in the general theory of relativity. (Russian. English summary) **89a:83053**

Xanthopoulos, Basilis C. *see* **Chandrasekhar, Subrahmanyan, 89a:83012; 89c:83030** *and* **Papacostas, Taxiarchis, 89m:83035**

Zhang, Xiao-He *see* **Thorne, Kip S.; et al., (89b:83002)**

83C99 None of the above, but in this section

Abbott, L. F. (*with* Traschen, I.; Xu, Rui-Ming) Integral constraints in general relativity. **89b:83062**

Bezerra, V. B. Einstein gravity in the loop variable approach. **89f:83070**

(Bombelli, Luca) *see* **Moore, Cristopher, 89b:83066**

Brewin, Leo A continuous time formulation of the Regge calculus. **89h:83029**

— The Riemann and extrinsic curvature tensors in the Regge calculus. **89m:83064**

— The Gauss-Codacci [Codazzi] equation on a Regge spacetime. **89m:83065**

Charap, J. M. (*with* Henneaux, M.; Nelson, J. E.) Explicit form of the constraint algebra in tetrad gravity. **89k:83049**

Chernikov, N. A. ★ Вариационный метод Гильберта и тензор Папапетру. (Russian) [The Hilbert variational method and the Papapetrou tensor] **89b:83063**

Christodoulou, D. (*with* Yau, S.-T.) Some remarks on the quasi-local mass. **89k:83050**

Corciovei, A. *see* **Ghika, Gr., 89a:83043**

Daybelge, Umur General relativistic nonequilibrium statistical mechanics. (Turkish summary) **89e:83048**

Dieckmann, Jan Volume functions in general relativity. **89j:83052**

Dinariev, O. Yu. (*with* Mosolov, A. B.) Relativistic effects in a superconducting ring. **89b:83064**

Economou, Athanasios (*with* Tsoubelis, D.) Rotating cosmic strings and gravitational soliton waves. **89m:83066**

Esculpi, M. *see* **Herrera, L.; et al., 89d:83049**

Evens, Dan (*with* Kunstatter, G.) Hamiltonian analysis of linearised topologically massive gravity. **89k:83051**

Filippov, V. T. *see* **Golubyatnikov, V. P.; et al., 89f:83071**

Foerster, D. On $d = 2$ Regge calculus without triangulation: the supersymmetric case. **89a:83042**

Geroch, Robert (*with* Traschen, Jennie) Strings and other distributional sources in general relativity. **89d:83048**

Ghika, Gr. (*with* Corciovei, A.) Static solutions for the sigma-model coupled to gravity in the case of a compact space-like slice. **89a:83043**

Golubyatnikov, V. P. (*with* Smirnov, G. I.; Filippov, V. T.) Chronogeometric and topological structures of spaces with variable signature of the metric. **89f:83071**

Gurzadyan, V. G. (*with* Kocharyan, A. A.) The Arnowitt-Deser-Misner principle and geodesic flows in Wheeler-De Witt superspace. **89f:83072**

Heathcote, Adrian Zeeman-Göbel topologies. **89h:83030**
Henneaux, M. *see* **Charap, J. M.; et al., 89k:83049**
Herrera, L. (*with* Jiménez, Juan Francisco; Esculpi, M.) Surface phenomena in general relativistic stellar models: critical mass and stability. **89d:83049**
Illge, R. On potentials for several classes of spinor and tensor fields in curved spacetimes. **89j:83053**
Jiménez, Juan Francisco *see* **Herrera, L.; et al., 89d:83049**
Kaku, Michio Generally covariant lattices, the random calculus, and the strong coupling approach to the renormalisation of gravity. **89k:83052**
Kheyfets, Arkady (*with* Miller, Warner A.; Wheeler, John A.) Null-strut calculus: the first test. **89m:83067**
Kocharyan, A. A. *see* **Gurzadyan, V. G., 89f:83072**
Kunstatter, G. *see* **Evens, Dan, 89k:83051**
Lamoureux-Brousse, L. Conjugaisons finies et milieux continus en relativité générale. (English summary) [Finite conjugacy and continua in general relativity] **89e:83049**
Landsberg, P. T. *see* **Pavón, Diego, 89j:83054**
(Lee, Joohan) *see* **Moore, Cristopher, 89b:83066**
Levichev, A. V. Closed causal curves in homogeneous space-time. (Russian) (*see* **89d:81001**)
Ludwig, Garry Some remarks on general transformation laws for Newman-Penrose variables. **89k:83053**
Maluf, José Wadih Physical degrees of freedom in matrix relativity. **89b:83065**
(Meyer, David A.) *see* **Moore, Cristopher, 89b:83066**
Miller, Warner A. *see* **Kheyfets, Arkady; et al., 89m:83067**
Moore, Cristopher Comment on: "Space-time as a causal set" [Phys. Rev. Lett. 59 (1987), no. 5, 521–524] by L. Bombelli, J. Lee, D. A. Meyer and R. D. Sorkin. **89b:83066**
Mosolov, A. B. *see* **Dinariev, O. Yu., 89b:83064**
Nagayama, Haruya (*with* Nagayama, Ikuko) A note on some nonlinear equation in general relativity. **89e:83050**
Nagayama, Ikuko *see* **Nagayama, Haruya, 89e:83050**
Nelson, J. E. *see* **Charap, J. M.; et al., 89k:83049**
Nishioka, Michio Isotopic lifting of a Riemannian space-time. **89k:83054**
Novello, Mario (*with* Velloso, A. L.) The connection between general observers and Lanczos potential. **89c:83040**
Paul, H. G. Energy accumulating accretion disk orbiting a Kerr black hole. (German summary) **89m:83068**
Pavón, Diego (*with* Landsberg, P. T.) Heat capacity of a self-gravitating radiation sphere. **89j:83054**
Penrose, Roger Twistors in general relativity. **89b:83067**
Petrov, Alexandr Nikolaevich *see* **Popova, A. D., 89k:83055**
Popova, A. D. (*with* Petrov, Alexandr Nikolaevich) Exact dynamic theories on a given background in gravitation. **89k:83055**
Roberts, M. D. Torsional dipoles. (French summary) **89d:83050**
— A new gravitational energy tensor. **89g:83036**
Sachs, Mendel The precessional frequency of a gyroscope in the quaternionic formulation of general relativity. **89m:83069**
Schmidt, Hans-Jürgen On Ellis' programme within fourth order gravity. (German summary) **89j:83055**
— The equivalence of conformally and minimally coupled scalar fields in Einstein's theory of gravity. **89k:83056**
Schucking, E. L. (*with* Wang, Jia-Zhu) The two-dimensional Ivor. **89d:83051**
Smirnov, G. I. *see* **Golubyatnikov, V. P.; et al., 89f:83071**
(Sorkin, Rafael D.) *see* **Moore, Cristopher, 89b:83066**
Taub, A. H. Positive energy in field theories. (Italian summary) **89e:83051**
Tentyukov, M. N. ★ Общековариантное представление псевдотензора Ландау-Лифшица. (Russian) [The generally covariant representation of the Landau-Lifshits pseudotensor] **89k:83057**
Traschen, I. *see* **Abbott, L. F.; et al., 89b:83062**
Traschen, Jennie *see* **Geroch, Robert, 89d:83048**
Tsoubelis, D. *see* **Economou, Athanasios, 89m:83066**
Tsypkin, A. G. On complicated models of continuous media in the general theory of relativity. **89m:83070**
Velloso, A. L. *see* **Novello, Mario, 89c:83040**
Wang, Jia-Zhu *see* **Schucking, E. L., 89d:83051**
Wheeler, John A. *see* **Kheyfets, Arkady; et al., 89m:83067**
Witten, Edward Positive energy and Kaluza-Klein theory. **89g:83037**
Xu, Rui-Ming *see* **Abbott, L. F.; et al., 89b:83062**
Yau, S.-T. *see* **Christodoulou, D., 89k:83050**

Items with secondary classifications in 83C99

Bartnik, Robert Maximal surfaces and general relativity. **89g:58047**
— Remarks on cosmological spacetimes and constant mean curvature surfaces. **89g:53094**
Beem, John K. (*with* Parker, Phillip E.) Pseudoconvexity and general relativity. **89b:53098**
Bernardini, Gilberto Ideas and concepts about space and time. (Italian) **89i:01001**
Bouda, A. Gauged BRS symmetry for the Weyl×Lorentz×diffeomorphism group. **89k:81098**
Bowick, M. J. (*with* Giddings, Steven B.; Harvey, Jeffrey A.; Horowitz, Gary T.; Strominger, Andrew) Axionic black holes and an Aharonov-Bohm effect for strings. **89j:83045**
Briozzo, C. B. (*with* Budde, Carlos E.; Cáceres, Manuel O.; Lamberti, P. W.) Stability of a Robertson-Walker universe against stochastic perturbations. **89e:83086**
Budde, Carlos E. *see* **Briozzo, C. B.; et al., 89e:83086**
Cáceres, Manuel O. *see* **Briozzo, C. B.; et al., 89e:83086**
Cagnac, Francis (*with* Noutchegueme, Norbert) Solutions globales pour un système quasi-linéaire. (English summary) [Global solutions for quasilinear systems] **89h:35206**
Cai, Y. Q. (*with* Papini, G.) Particle interferometry in weak gravitational fields. **89m:83005**
Chernikov, N. A. Difficult questions of relativity theory. **89d:83004**
Cho, Chung Hyun *see* **Chung, Kyung Tae, 89g:53047**
Chung, Kyung Tae (*with* Cho, Chung Hyun) On the *n*-dimensional SE-connection and its conformal change. (Italian and Russian summaries) **89g:53047**
Deser, S. The ubiquitous Bel-Robinson tensor. **89e:53109**
Dinariev, O. Yu. (*with* Mosolov, A. B.) On a relativistic effect in the theory of superconductivity. (Russian) **89b:81261**
Ershov, A. A. *see* **Gal'tsov, D. V., 89i:81091**
Gal'tsov, D. V. (*with* Ershov, A. A.) Monopole-fermion systems in the complex isotropic tetrad formalism. **89i:81091**
Giddings, Steven B. *see* **Bowick, M. J.; et al., 89j:83045**
Gómez, R. (*with* Isaacson, R. A.; Welling, J. S.; Winicour, J.) Numerical relativity on null cones. **89d:83003**
Hall, G. S. Curvature, metric and holonomy in general relativity. **89b:53100**
— Connections and symmetries in spacetime. **89f:53097**
Harvey, Jeffrey A. *see* **Bowick, M. J.; et al., 89j:83045**
Horowitz, Gary T. *see* **Bowick, M. J.; et al., 89j:83045**
Ichimura, Hideo Time-like and space-like curves in Frenet-Serret formalisms. **89b:53027**
Illge, R. Zur Gültigkeit des Huygensschen Prinzips bei hyperbolischen Differentialgleichungssytemen in statischen Raum-Zeiten. (English and Russian summaries) [On the validity of Huygens' principle in systems of hyperbolic differential equations in static space-times] **89b:35077**
Isaacson, R. A. *see* **Gómez, R.; et al., 89d:83003**
Kijowski, Jerzy On positivity of gravitational energy. **89a:83032**
Kim, Jin Hwan *see* **Kim, Jong Chul, 89j:53055**
Kim, Jong Chul (*with* Kim, Jin Hwan) Properties of causally continuous space-time. **89j:53055**
Kuang, Zhi Quan (*with* Liang, Can Bin) On the GKP and BS constructions of the *c*-boundary. **89g:53097**
Lamberti, P. W. *see* **Briozzo, C. B.; et al., 89e:83086**
LeBrun, Claude Counter-examples to the generalized positive action conjecture. **89f:53107**
Leonovich, A. A. Conformally invariant equations in field theory and in the general theory of relativity. (Russian) (*see* **89d:81001**)
Lester, J. A. Relative infinity in projective de Sitter spacetime and its relation to proper time. **89f:53098**
Levichev, A. V. Chronogeometry of an electromagnetic wave defined by a bi-invariant metric on the oscillator group. (Russian) **89a:83029**
Liang, Can Bin *see* **Kuang, Zhi Quan, 89g:53097**
Linet, B. A vortex-line model for a system of cosmic strings in equilibrium. **89f:83119**
Lotze, K.-H. Emission of a photon by an electron in Robertson-Walker universes. **89a:81188**
Magnon, A. M. R. Unification of gravity and electromagnetism in dimension 4: some peculiar aspects. (Italian and Russian summaries) **89f:53109**
Mosolov, A. B. *see* **Dinariev, O. Yu., 89b:81261**
Ne'eman, Yuval Search for the equation of an infinite-component world-spinor field. **89e:81072**
Noutchegueme, Norbert *see* **Cagnac, Francis, 89h:35206**
Papini, G. *see* **Cai, Y. Q., 89m:83005**
Parker, Phillip E. *see* **Beem, John K., 89b:53098**
Perlick, Volker Characterization of standard clocks by means of light rays and freely falling particles. **89b:83009**
Rendall, Alan D. The continuous determination of spacetime geometry by the Riemann curvature tensor. **89h:53126**
— Curvature of generic space-times in general relativity. **89g:53100**
Scheibe, Erhard Kovarianz und Gleichberechtigung. Bemerkungen zu einem Prinzip der allgemeinen Relativitätstheorie. [Covariance and equality. Remarks on a principle of general relativity theory] **89j:01052**
Schmidt, Hans-Jürgen Addendum: "On Geroch's limit of space-times and its relation to a new topology in the space of Lie groups" [J. Math. Phys. 28 (1987), no. 8, 1928–1936; MR 88i:22042]. **89d:22015**
Skinner, Ray (*with* Steinke, Kim; Wood, W. Robert) Poisson brackets of the super-Hamiltonian and the supermomenta. (French summary) **89c:70026**
Smrz, P. K. Construction of space-time by gauge translations. **89a:53089**
Speziale, Charles G. The Einstein equivalence principle, intrinsic spin and the invariance of constitutive equations in continuum mechanics. **89f:73009**
Steinke, Kim *see* **Skinner, Ray; et al., 89c:70026**
Strominger, Andrew *see* **Bowick, M. J.; et al., 89j:83045**
Szabados, L. B. Causal measurability in chronological spaces. **89k:53059**
— Causal boundary for strongly causal spacetimes. **89g:53101**
Trautman, Andrzej Cauchy-Riemann structures in general relativity. **89c:53061**
Tsegel'nik, V. V. Self-similar solutions of a system of nonlinear equations. (Russian. English summary) **89h:35059**
Welling, J. S. *see* **Gómez, R.; et al., 89d:83003**
Winicour, J. *see* **Gómez, R.; et al., 89d:83003**
Wood, W. Robert *see* **Skinner, Ray; et al., 89c:70026**
York, James W., Jr. Bel-Robinson gravitational superenergy and flatness. **89c:83008**
Zardecki, Andrew Gravity as a gauge theory with Cartan connection. **89g:53111**

83D05 Relativistic gravitational theories other than Einstein's

Accioly, A. J. An unusual cosmological solution in the context of higher-derivative gravity. (Italian and Russian summaries) **89m:83071**
— (*with* Matsas, G. E. A.) Are there causal vacuum solutions with the symmetries of the Gödel universe in higher-derivative gravity? **89j:83056**
Alvarez, Enrique World function dynamics in generalized spacetimes. **89j:83057**
Avadhanulu, M. B. *see* **Reddy, D. R. K.; et al., 89e:83061**
Avakyan, R. M. (*with* Grigorian, L. Sh.) The gravitation theory in bimetric formulation. **89e:83052**
Baekler, Peter (*with* Hecht, Ralf; Hehl, Friedrich W.; Shirafuji, Takeshi) Mass and spin of exact solutions of the Poincaré gauge theory. **89b:83068**
— (*with* Seitz, Mario; Winkelmann, Volker) Cylindrically symmetric solutions of self-consistently coupled Dirac fields in gauge theories of gravity. **89c:83041**

— (*with* Gürses, Metin; Hehl, Friedrich W.) A new method to solve the field equations of Poincaré gauge theories. **89f:83073**
— (*with* Gürses, Metin; Hehl, Friedrich W.; McCrea, J. Dermott) The exterior gravitational field of a charged spinning source in the Poincaré gauge theory: a Kerr-Newman metric with dynamic torsion. **89f:83074**
— *see also* **McCrea, J. Dermott; et al., 89b:83072**
Bao, Xi Liang An internal solution for a gravitational theory containing a vector gravitational field. (Chinese. English summary) (Not in MR)
Baptista, J. P. (*with* Batista, A. B.; Fabris, J. C.) The zero-helicity waves in a Brans-Dicke cosmology. **89k:83058**
Barrow, John D. (*with* Cotsakis, S.) Inflation and the conformal structure of higher-order gravity theories. **89j:83058**
Batista, A. B. *see* **Baptista, J. P.; et al., 89k:83058**
Beesham, A. Conservation laws and radiation in the scale covariant theory of gravitation. **89b:83069**
— Kinematical quantities in the scale covariant theory of gravitation. **89b:83070**
— A note on the Birkhoff-type theorem in the scale-covariant theory of gravitation. **89k:83059**
Blagojević, M. (*with* Vasilić, M.) Asymptotic symmetry and conserved quantities in the Poincaré gauge theory of gravity. **89k:83060**
— (*with* Nikolić, I.; Vasilić, M.) Local Poincaré generators in the $R + T^2 + R^2$ theory of gravity. (Italian and Russian summaries) **89m:83072**
Bleyer, U. (*with* von Borzeszkowski, Horst-Heino) On gauge-invariant theories of gravitation. **89m:83073**
Borgohain, P. *see* **Krori, K. D.; et al., 89a:83047**
von Borzeszkowski, Horst-Heino *see* **Bleyer, U., 89m:83073**
Brans, Carl H. Consistency of field equations in "self-creation" cosmologies. **89b:83071**
— Nonlinear Lagrangians and the significance of the metric. **89m:83074**
Bretón Baez, Nora *see* **García Díaz, Alberto; et al., 89f:83075**
Bronnikov, K. A. (*with* Shikin, G. N.) Some exact solutions in the relativistic theory of gravitation. **89j:83059**
Castagnino, Mario (*with* Domenech, G.; Noriega, R. J.; Schifini, C. G.) On a Weyl-type theorem for higher-order Lagrangians. **89a:83044**
Chen, Hui Hua (*with* Chern, De Ching; Hsu, Rue Ron; Nester, James M.; Yeung, Wai Bong) Asymptotically Newtonian conditions for Poincaré gauge theory. **89e:83053**
Cheng, Wen Hao (*with* Chern, De Ching; Nester, James M.) Canonical analysis of the one-parameter teleparallel theory. **89j:83060**
Chern, De Ching *see* **Chen, Hui Hua; et al., 89e:83053** *and* **Cheng, Wen Hao; et al., 89j:83060**
Chisholm, J. S. R. (*with* Farwell, R. S.) Gravity and the frame field. **89g:83038**
Chugreev, Yu. V. *see* **Logunov, A. A.; et al., 89i:83053**
Chuong, Nguyen Hong *see* **Fedorov, F. I.; et al., 89d:83052**
Coley, Alan A. (*with* Sarmiento Galán, Antonio F.) Nonmetric theories of gravity and the gravitational frequency shift. **89i:83047**
Cotsakis, S. *see* **Barrow, John D., 89j:83058**
Das, Kanika *see* **Krori, K. D.; et al., 89a:83047**
Dereli, T. (*with* Tucker, R. W.) Gravitational interactions in 2 + 1 dimensions. **89e:83054**
Domenech, G. *see* **Castagnino, Mario; et al., 89a:83044**
Dragomir, Sorin *see* **Ikeda, Satoshi, 89e:83055**
Dullemond, C. Induced geometry and confinement. **89g:83039**
Fabris, J. C. *see* **Baptista, J. P.; et al., 89k:83058**
Fariña-Busto, Luis Some new cosmological results of quadratic Lagrangians. **89i:83048**
Farwell, R. S. *see* **Chisholm, J. S. R., 89g:83038**
Fedorov, F. I. (*with* Minkevich, A. V.; Chuong, Nguyen Hong) Spontaneous symmetry breaking by gravitational field and regular isotropic models with torsion. **89d:83052**
Ferraris, Marco (*with* Francaviglia, Mauro; Magnano, Guido) Do nonlinear metric theories of gravitation really exist? **89d:83053**
Ferraz, Karin *see* **Stédile, Edson, 89d:83058**
Francaviglia, Mauro *see* **Ferraris, Marco; et al., 89d:83053**
Galitskiĭ, V. S. Cosmology in the Einstein-Cartan theory of gravitation. **89i:83049**
García Díaz, Alberto (*with* Bretón Baez, Nora; Hauser, Isidore) Stationary axisymmetric solutions in the vacuum Jordan-Brans-Dicke theory. **89f:83075**
— (*with* Martínez, H. Guadalupe) Stationary axisymmetric solutions of the Jordan-Brans-Dicke equations with electromagnetic sources. **89j:83061**
Gasperini, M. Short-range interactions in gravitational theories with torsion and quadratic Lagrangian. **89c:83042**
Gegenberg, J. (*with* Kelly, P. F.; Mann, R. B.; Vincent, D. E.) Theories of gravitation in two dimensions. **89k:83061**
Goenner, H. F. M. Alternative theories of gravitation in the framework of Riemannian geometry. (German summary) **89j:83062**
Gogberashvili, M. *see* **Sardanashvili, G. A., 89m:83078**
Grigorian, L. Sh. *see* **Avakyan, R. M., 89e:83052**
Grøn, Ø. Inflationary cosmology according to Wesson's gravitational theory. **89a:83045**
— An inflationary cosmological model in Dunn's scalar-tensor theory of gravitation. **89a:83046**
— (*with* Soleng, Harald H.) On the physical interpretation of Wesson's gravitational theory. **89m:83075**
Gürses, Metin *see* **McCrea, J. Dermott; et al., 89b:83072**; **Baekler, Peter; et al., 89f:83073** *and* **89f:83074**
Hammond, Richard T. Gravitation, torsion, and electromagnetism. **89i:83050**
Hauser, Isidore *see* **García Díaz, Alberto; et al., 89f:83075**
Hecht, Ralf *see* **Baekler, Peter; et al., 89b:83068**
Hehl, Friedrich W. *see* **Baekler, Peter; et al., 89b:83068**; **McCrea, J. Dermott; et al., 89d:83055**; **Baekler, Peter; et al., 89f:83073** *and* **89f:83074**
Horvath, J. E. (*with* Logiudice, E. A.; Riveros, C.; Vucetich, Héctor) Einstein equivalence principle and theories of gravitation: a gravitationally modified standard model. **89j:83063**
Hsu, Rue Ron *see* **Chen, Hui Hua; et al., 89e:83053**
Huang, Chao Guang *see* **Liu, Liao, 89i:83052**
Ikeda, Satoshi (*with* Dragomir, Sorin) On the field equations in the theory of the gravitational fields in Finsler spaces. **89e:83055**
Jakubiec, Andrzej (*with* Kijowski, Jerzy) On theories of gravitation with nonlinear Lagrangians. **89e:83056**
Jha, Ramanand (*with* Lord, Eric A.; Sinha, K. P.) The Brans-Dicke scalar field in Einstein-Cartan theory. **89i:83051**
Kawai, Toshiharu Energy-momentum and angular momentum in Poincaré gauge theory of gravity. **89h:83031**
Kelly, P. F. *see* **Gegenberg, J.; et al., 89k:83061**
Kijowski, Jerzy *see* **Jakubiec, Andrzej, 89e:83056**
Knill, R. J. (*with* Whitman, A. P.) The well-posedness of Rosen's field equations. **89h:83032**
— (*with* Stoeger, William R.; Whitman, A. P.) Axially symmetric solution to Rosen's field equations with angular momentum. **89h:83033**
Kofman, L. A. (*with* Mukhanov, V. F.; Pogosyan, D. Yu.) Evolution of inhomogeneities in inflationary models in a theory of gravitation with higher derivatives. **89d:83054**
Korotkiĭ, V. A. *see* **Obukhov, Yu. N., 89a:83050**
Krori, K. D. (*with* Borgohain, P.; Das, Kanika; Sarma, Arunima) Exact interior solutions in Einstein-Cartan-Yukawa theory. **89a:83047**
Lee, Chul H. (*with* Lee, Hyun Kyu) Kasner-type solution in a higher-derivative gravity theory. **89k:83062**
Lee, Hyun Kyu *see* **Lee, Chul H., 89k:83062**
Liebscher, D.-E. Affinely invariant field theory. (German summary) **89m:83076**
Liu, Liao (*with* Huang, Chao Guang) The quantum cosmology in the Brans-Dicke theory. **89i:83052**
Logiudice, E. A. *see* **Horvath, J. E.; et al., 89j:83063**
Logunov, A. A. ★ Лекции по теории относительности и гравитации. (Russian) [Lectures in the theory of relativity and gravitation] **89e:83057**
— (*with* Loskutov, Yu. M.; Mestvirishvili, M. A.) The relativistic theory of gravitation and a critique of the general theory of relativity. (Russian. English summary) **89e:83058**
— (*with* Loskutov, Yu. M.; Mestvirishvili, M. A.) Relativistic theory of gravity. **89j:83064**
— (*with* Mestvirishvili, M. A.; Chugreev, Yu. V.) Graviton mass and the development of the Friedmann universe. **89i:83053**
— *see also* **Vlasov, A. A., 89a:83053**
Lord, Eric A. *see* **Jha, Ramanand; et al., 89i:83051**
Loskutov, Yu. M. *see* **Logunov, A. A.; et al., 89e:83058** *and* **89j:83064**
Magnano, Guido *see* **Ferraris, Marco; et al., 89d:83053**
Maheswara Rao, Velagapudi Uma *see* **Reddy, D. R. K., 89d:83057**
Mann, R. B. *see* **Gegenberg, J.; et al., 89k:83061**
Martínez, H. Guadalupe *see* **García Díaz, Alberto, 89j:83061**
Matsas, G. E. A. *see* **Accioly, A. J., 89j:83056**
McCrea, J. Dermott (*with* Baekler, Peter; Gürses, Metin) A Kerr-like solution of the Poincaré gauge field equations. (Italian summary) **89b:83072**
— (*with* Mielke, Eckehard W.; Hehl, Friedrich W.) A remark on the axisymmetric Chen et al. solution of the Poincaré gauge theory. **89d:83055**
— *see also* **Baekler, Peter; et al., 89f:83074**
Mestvirishvili, M. A. *see* **Logunov, A. A.; et al., 89e:83058**; **89i:83053** *and* **89j:83064**
Mészáros, A. Remark on the gauge behaviour of contortion. **89e:83059**
Mielke, Eckehard W. Algebraic resolution of the duality ansatz for Poincaré gauge fields. **89f:83076**
— *see also* **McCrea, J. Dermott; et al., 89d:83055**
Minkevich, A. V. *see* **Fedorov, F. I.; et al., 89d:83052**
Miron, Radu On the Finslerian theory of relativity. **89h:83034**
Moffat, J. W. Spinor fields and the GL(4, **R**) gauge structure in the nonsymmetric theory of gravitation. **89f:83077**
Mukhanov, V. F. *see* **Kofman, L. A.; et al., 89d:83054**
Müller, Volker (*with* Schmidt, Hans-Jürgen; Starobinskiĭ, A. A.) The stability of the de Sitter space-time in fourth order gravity. **89a:83048**
Namsraĭ, Kh. Quantum space-time: a review. **89k:83063**
Nanda, Sribatsa An unphysical metric for the weakened field equations of general relativity. **89g:83040**
Nester, James M. Is there really a problem with the teleparallel theory? **89f:83078**
— *see also* **Chen, Hui Hua; et al., 89e:83053** *and* **Cheng, Wen Hao; et al., 89j:83060**
Nikolić, I. *see* **Blagojević, M.; et al., 89m:83072**
Noriega, R. J. *see* **Castagnino, Mario; et al., 89a:83044**
Novotný, Jan On the generally invariant theories of gravitation. **89a:83049**
Obregón, O. (*with* Pimentel, Luis O.) The fifth force and the scalar-tensor theories of gravitation. **89g:83041**
Obukhov, Yu. N. (*with* Korotkiĭ, V. A.) The Weyssenhoff fluid in Einstein-Cartan theory. **89a:83050**
Pandey, S. N. Higher-order theory of gravitation. **89e:83060**
Pimenov, R. I. ★ Анизотропное финслерово обобщение теории относительности как структуры порядка. (Russian) [Anisotropic Finsler generalization of the theory of relativity as order structures] **89b:83073**
Pimentel, Luis O. *see* **Obregón, O., 89g:83041**
Pogosyan, D. Yu. *see* **Kofman, L. A.; et al., 89d:83054**
Pradhan, A. Classical dynamics of matter and anti-matter in scalar tensor and time symmetric universe. (Not in MR)
Rastall, Peter Monometric and bimetric theories of gravity. (French summary) **89d:83056**
Reddy, D. R. K. Birkhoff's theorem in a conformally-invariant scalar field theory. **89a:83051**
— (*with* Avadhanulu, M. B.; Venkateswarlu, R.) A static conformally-flat vacuum model in self-creation cosmology. **89e:83061**
— (*with* Venkateswarlu, R.) Nonexistence of static conformally-flat solutions in self-creation cosmology. **89j:83065**
— (*with* Maheswara Rao, Velagapudi Uma) Nonstatic plane-symmetric solutions in scalar-tensor theories of gravitation. **89d:83057**
de Ritis, R. (*with* Scudellaro, Paolo; Stornaiolo, Cosimo) A nonminimally coupled theory of gravitation with torsion. **89e:83062**
Riveros, C. *see* **Horvath, J. E.; et al., 89j:83063**
Rosen, Nathan Elementary particles in bimetric general relativity. **89m:83077**
Sardanashvili, G. A. (*with* Gogberashvili, M.) Translation gauge fields and space-time dislocations. (German summary) **89m:83078**

Sarma, Arunima *see* **Krori, K. D.; et al., 89a:83047**
Sarmiento Galán, Antonio F. *see* **Coley, Alan A., 89i:83047**
Schifini, C. G. *see* **Castagnino, Mario; et al., 89a:83044**
Schmidt, Hans-Jürgen *see* **Müller, Volker; et al., 89a:83048**
Scudellaro, Paolo *see* **de Ritis, R.; et al., 89e:83062**
Seitz, Mario *see* **Baekler, Peter; et al., 89c:83041**
Shikin, G. N. *see* **Bronnikov, K. A., 89j:83059**
Shirafuji, Takeshi *see* **Baekler, Peter; et al., 89b:83068**
Silaev, P. K. *see* **Sveshnikov, K. A., 89m:83081**
Sinha, K. P. *see* **Jha, Ramanand; et al., 89i:83051**
Soleng, Harald H. Cosmologies based on Lyra's geometry. **89a:83052**
— Scalar-tensor theory of gravitation with spin-scalar-torsion coupling. **89m:83079**
— Motion of photons in scalar-tensor theory of gravitation with spin-torsion coupling. **89m:83080**
— *see also* **Grøn, Ø., 89m:83075**
Starobinskiĭ, A. A. *see* **Müller, Volker; et al., 89a:83048**
Stédile, Edson (*with* Ferraz, Karin) The Hermitian metric in gravitation. (Portuguese) **89d:83058**
Stoeger, William R. *see* **Knill, R. J.; et al., 89h:83033**
Stornaiolo, Cosimo *see* **de Ritis, R.; et al., 89e:83062**
Sveshnikov, K. A. (*with* Silaev, P. K.) Some exact solutions for a scalar field in the relativistic theory of gravitation. **89m:83081**
Szczyrba, Wiktor Stephenson-Kilmister-Yang theory of gravity and its dynamics. **89b:83074**
— Dynamics of quadratic Lagrangians in gravity: Fairchild's theory. **89f:83079**
Tartaglia, A. Gravitational consequences of a broken Lorentz symmetry. (Italian and Russian summaries) **89f:83080**
Teyssandier, P. Linearised $R + R^2$ gravity: a new gauge and new solutions. **89m:83082**
Tucker, R. W. *see* **Dereli, T., 89e:83054**
Vasilić, M. *see* **Blagojević, M., 89k:83060** *and* **89m:83072**
Venkateswarlu, R. *see* **Reddy, D. R. K.; et al., 89e:83061** *and* **89j:83065**
Vincent, D. E. *see* **Gegenberg, J.; et al., 89k:83061**
Vlasov, A. A. (*with* Logunov, A. A.) The difference between gravitational collapse in the relativistic theory of gravity and collapse in the general theory of relativity. (Russian. English summary) **89a:83053**
— The effective action, the function "distribution" of spacetime and the relativistic theory of gravity. **89j:83066**
Voigt, Arnold Entwurf einer nicht-relativistischen Alternative zur Einsteinschen speziellen und allgemeinen Relativitätstheorie. [Design of a nonrelativistic alternative to Einstein's special and general relativity theory] **89a:83054**
Vucetich, Héctor *see* **Horvath, J. E.; et al., 89j:83063**
Whitman, A. P. *see* **Knill, R. J., 89h:83032** *and* **89h:83033**
Whitt, Brian Spherically symmetric solutions of general second-order gravity. **89k:83064**
Winkelmann, Volker *see* **Baekler, Peter; et al., 89c:83041**
Winterberg, F. Vector theory of gravity with substratum. **89d:83059**
Wolf, Carl Anton The stability of "Q balls" in Rosen's bimetric theory of gravitation. (Italian and Russian summaries) **89m:83083**
Yeung, Wai Bong *see* **Chen, Hui Hua; et al., 89e:83053**
Yu, Shen A theory of classical spacetime. I. Foundations. **89e:83063**
— A theory of classical spacetime. II. Eddington's identification. **89k:83065**

Items with secondary classifications in 83D05

Aldrovandi, R. (*with* Pereira, J. G.) On the quantization of Poincaré and de Sitter gauge models. **89i:81065**
Amici, O. (*with* Casciaro, Biagio) An example of Lagrangian theory of relativity satisfying the conservation law. **89f:53102**
Babu Joseph, K. (*with* Sabir, M.) Reformulation of Einstein gravity as a flat space gauge theory. **89e:83008**
Benacquista, M. (*with* Nordtvedt, K.) A many-body Lagrangian for celestial body dynamics to second post-Newtonian linear field order. **89c:83026**
Bradas, James C. *see* **Fennelly, A. J.; et al., 89e:83089**
Bruzzo, Ugo The global Utiyama theorem in Einstein-Cartan theory. **89b:53110**
Buchmüller, W. (*with* Dragon, N.) Einstein gravity from restricted coordinate invariance. **89h:83019**
Bukhbinder, I. L. (*with* Lyakhovich, S. L.) Canonical quantisation and local measure of R^2 gravity. **89c:83034**
— (*with* Lyakhovich, S. L.) Canonical quantization of theories with higher derivatives. Quantization of R^2-gravity. (Russian. English summary) **89a:83035**
Casciaro, Biagio *see* **Amici, O., 89f:53102**
Coleman, Robert Alan (*with* Korte, Herbert) Any physical, monopole equation of motion structure uniquely determines a projective inertial structure and an $(n-1)$-force. **89f:83081**
Davies, John B. New curvature-torsion relations through decomposition of the Bianchi identities. **89i:53023**
Díaz, Mario (*with* Gleiser, Reinaldo; Pullin, Jorge) Brans-Dicke solitons as finite perturbations on perfect-fluid FRW models in general relativity. **89d:83020**
Dong, Xue Geng *see* **Duan, Yi Shi; et al., 89j:83033**
Dragon, N. *see* **Buchmüller, W., 89h:83019**
Duan, Yi Shi (*with* Liu, Ji Cheng; Dong, Xue Geng) General covariant energy-momentum conservation law in general spacetime. **89j:83033**
Evens, Dan (*with* Kunstatter, G.) Hamiltonian analysis of linearised topologically massive gravity. **89k:83051**
Fennelly, A. J. (*with* Bradas, James C.; Smalley, Larry L.) Inflation in Einstein-Cartan theory with energy-momentum tensor with spin. **89e:83089**
Ferraris, Marco (*with* Francaviglia, Mauro) Applications of the Poincaré-Cartan form in higher order field theories. **89d:58033**
Francaviglia, Mauro *see* **Ferraris, Marco, 89d:58033**
Gleiser, Reinaldo *see* **Díaz, Mario; et al., 89d:83020**
Kelly, P. F. (*with* Mann, R. B.) Static spherically symmetric solutions in a new algebraically extended theory of gravity. **89e:83065**
Korte, Herbert *see* **Coleman, Robert Alan, 89f:83081**
Kunstatter, G. *see* **Evens, Dan, 89k:83051**
Lal, K. B. (*with* Mustaqeem) On wave solutions of gauge invariant generalization of field theories with asymmetric fundamental tensor. (Turkish summary) **89i:83054**
Liu, Ji Cheng *see* **Duan, Yi Shi; et al., 89j:83033**
Lord, Eric A. Gauge theories of gravity. **89g:83042**
Lyakhovich, S. L. *see* **Bukhbinder, I. L., 89a:83035** *and* **89c:83034**
Maluf, José Wadih Physical degrees of freedom in matrix relativity. **89b:83065**
Mann, R. B. *see* **Kelly, P. F., 89e:83065**
Mustaqeem *see* **Lal, K. B., 89i:83054**
Myers, Robert C. (*with* Simon, Jonathan Z.) Black-hole thermodynamics in Lovelock gravity. **89i:83041**
Nordtvedt, K. *see* **Benacquista, M., 89c:83026**
Pereira, J. G. *see* **Aldrovandi, R., 89i:81065**
Pimenov, R. I. Axiomatics of generally relativistic and Finsler space-times by means of causality. **89f:53110**
Pullin, Jorge *see* **Díaz, Mario; et al., 89d:83020**
Sabir, M. *see* **Babu Joseph, K., 89e:83008**
Schmidt, Hans-Jürgen On Ellis' programme within fourth order gravity. (German summary) **89j:83055**
— The de Sitter spacetime as an attractor solution in fourth-order gravity. **89g:83015**
Simon, Jonathan Z. *see* **Myers, Robert C., 89i:83041**
Smalley, Larry L. *see* **Fennelly, A. J.; et al., 89e:83089**
Teitelboim, Claudio (*with* Zanelli, Jorge) Dimensionally continued topological gravitation theory in Hamiltonian form. **89b:83011**
Zanelli, Jorge *see* **Teitelboim, Claudio, 89b:83011**

Items with secondary classifications in 83D05

Delamotte, B. (*with* Ouvry, S.) Generalised Fayet-Sohnius hypermultiplet. (Not in MR)
Ouvry, S. *see* **Delamotte, B.**, (Not in MR)

83Exx Unified, higher-dimensional and "super" field theories

Items with secondary classifications in 83Exx

Green, Michael B. (*with* Schwarz, John H.; Witten, Edward) ★ Superstring theory. Vol. 1. **89f:81001a**
— (*with* Schwarz, John H.; Witten, Edward) ★ Superstring theory. Vol. 2. **89f:81001b**
Schwarz, John H. *see* **Green, Michael B.; et al., 89f:81001a** *and* **89f:81001b**
Witten, Edward *see* **Green, Michael B.; et al., 89f:81001a** *and* **89f:81001b**

83E05 Geometrodynamics

Bugajska, Krystyna Some properties of topological geons. **89a:83055**
Gurzadyan, V. G. (*with* Kocharyan, A. A.) Instability in Wheeler-DeWitt superspace. **89b:83075**
Kocharyan, A. A. *see* **Gurzadyan, V. G., 89b:83075**

Items with secondary classifications in 83E05

Berezin, V. A. (*with* Kuz′min, V. A.; Tkachev, I. I.) Wormhole creation via classical fluctuations and inflating worlds. **89j:83092**
Kuz′min, V. A. *see* **Berezin, V. A.; et al., 89j:83092**
Miller, Warner A. Geometric computation: null-strut geometrodynamics and the inchworm algorithm. **89g:83002**
Morris, Michael S. (*with* Thorne, Kip S.) Wormholes in spacetime and their use for interstellar travel: a tool for teaching general relativity. **89d:83001**
Pitkänen, Matti Juhani Topological geometrodynamics. (German summary) **89m:83089**
Thorne, Kip S. *see* **Morris, Michael S., 89d:83001**
Tkachev, I. I. *see* **Berezin, V. A.; et al., 89j:83092**

83E10 Asymmetric field theories

Burlakov, M. P. The Einstein equations in quasi-Riemannian spaces. (Russian) **89c:83043**
Castagnino, Mario (*with* Levinas, M. L.) Photon motion in the ECSK theory. **89e:83064**
Coleman, Robert Alan (*with* Korte, Herbert) Any physical, monopole equation of motion structure uniquely determines a projective inertial structure and an $(n-1)$-force. **89f:83081**
Kelly, P. F. (*with* Mann, R. B.) Static spherically symmetric solutions in a new algebraically extended theory of gravity. **89e:83065**
Korotkiĭ, V. A. (*with* Obukhov, Yu. N.) Cosmology in Einstein-Cartan theory. I. Spin dynamics. (Russian) **89k:83066**
— (*with* Obukhov, Yu. N.) Cosmology in Einstein-Cartan theory. II. Some exact solutions. **89k:83067**
Korte, Herbert *see* **Coleman, Robert Alan, 89f:83081**
Lal, K. B. (*with* Mustaqeem) On wave solutions of gauge invariant generalization of field theories with asymmetric fundamental tensor. (Turkish summary) **89i:83054**
Levinas, M. L. *see* **Castagnino, Mario, 89e:83064**
Lord, Eric A. Gauge theories of gravity. **89g:83042**
Mann, R. B. *see* **Kelly, P. F., 89e:83065**
Moffat, J. W. (*with* Woolgar, E.) Variational principle for particle motion in the nonsymmetric gravitation theory. **89b:83076**
Mustaqeem *see* **Lal, K. B., 89i:83054**
Obukhov, Yu. N. *see* **Korotkiĭ, V. A., 89k:83066** *and* **89k:83067**
Schmutzer, Ernst Projective relativity and quantum fields. **89e:83066**
Woolgar, E. *see* **Moffat, J. W., 89b:83076**

Items with secondary classifications in 83E10

Dong, Xue Geng *see* **Duan, Yi Shi; et al., 89j:83033**

Duan, Yi Shi (*with* Liu, Ji Cheng; Dong, Xue Geng) General covariant energy-momentum conservation law in general spacetime. **89j:83033**

Ferraz, Karin *see* **Stédile, Edson, 89d:83058**

Hammond, Richard T. Gravitation, torsion, and electromagnetism. **89i:83050**

Hittmair, O. Schrödinger's unified field theory seen 40 years later. (*see* **89m:01069**)

Korotkiĭ, V. A. *see* **Obukhov, Yu. N., 89a:83050**

Liu, Ji Cheng *see* **Duan, Yi Shi; et al., 89j:83033**

Obukhov, Yu. N. (*with* Korotkii, V. A.) The Weyssenhoff fluid in Einstein-Cartan theory. **89a:83050**

Stédile, Edson (*with* Ferraz, Karin) The Hermitian metric in gravitation. (Portuguese) **89d:83058**

Yu, Shen A theory of classical spacetime. II. Eddington's identification. **89k:83065**

83E15 Five- and higher-dimensional theories

Achúcarro, A. (*with* Evans, J. M.; Townsend, P. K.; Wiltshire, D. L.) Super p-branes. **89f:83082**

Aragone, C. (*with* Deser, S.; Yang, Zhu) Massive higher spin from dimensional reduction of gauge fields. **89j:83067**

Arik, M. (*with* Dereli, T.) Euler-form actions and the vanishing of the cosmological constant. **89j:83068**

Bailin, David (*with* Love, Alex; Thomas, Steven) Generalised GSO projections for Z-orbifold heterotic string compactifications with "Wilson lines". **89d:83060**

Barr, S. M. (*with* Mohapatra, Pramoda K.) Changing coupling "constants" and violation of the equivalence principle. **89k:83068**

Berezin, V. A. (*with* Kuz′min, V. A.) A new possibility of cosmological model construction in Kaluza-Klein theories. **89j:83069**

Bergshoeff, Eric (*with* Duff, M. J.; Pope, C. N.; Sezgin, E.) Supersymmetric supermembrane vacua and singletons. **89f:83083**

— (*with* Salam, A.; Sezgin, E.; Tanii, Yoshiaki) Singletons, higher spin massless states and the supermembrane. **89d:83061**

Bernido, Christopher C. Path integrals and quantum interference effects in a five-dimensional Kaluza-Klein theory. **89a:83056**

Biesiada, Marek (*with* Szydłowski, Marek; Szczęsny, Jerzy) Dynamical dimensional reduction in multidimensional Bianchi I models. **89c:83044**

— (*with* Szydłowski, Marek; Szczęsny, Jerzy) Null geodesics in multidimensional homogeneous cosmologies. **89j:83070**

— *see also* **Szydłowski, Marek; et al., 89a:83065; 89c:83047** *and* **89d:83069**

Borgohain, P. *see* **Krori, K. D.; et al., 89j:83081**

Bukhbinder, I. L. (*with* Odintsov, S. D.) Effective action in multidimensional (super)gravities. **89j:83071**

— (*with* Odintsov, S. D.) A unique effective action in Kaluza-Klein theories and spontaneous compactification. **89e:83067**

Cai, Sheng Shan (*with* Hu, Si Zhu; Li, Xin Zhou) Fermion-generalized monopole dynamics in Kaluza-Klein theory. (Chinese. English summary) **89d:83062**

Cai, Wei Cheng *see* **Zhang, Guang Yuan**^{2}**; et al., 89f:83095**

Cecotti, S. (*with* Ferrara, S.; Girardello, L.; Pasquinucci, A.; Porrati, Massimo) Matter-coupled supergravity with Gauss-Bonnet invariants: component Lagrangian and supersymmetry breaking. **89j:83072**

Chang, Ngee-Pong (*with* León, Juan; Pérez-Mercader, Juan) $\mathrm{STr}M^2$ sum rule for a general class of Kähler potentials. **89e:83068**

— (*with* Li, Da-Xi; Pérez-Mercader, Juan) Cosmological constant and asymmetric orbifolds. **89i:83055**

Cordani, B. (*with* Fehér, L. Gy.; Horváthy, P. A.) O(4, 2) dynamical symmetry of the Kaluza-Klein monopole. **89f:83084**

Cvetič, Mirjam Blown-up orbifolds. **89j:83073**

— (*with* Louis, Jan; Ovrut, Burt A.) A string calculation of the Kähler potentials for moduli of Z_N orbifolds. **89j:83074**

Das, Ashok (*with* Panigrahi, Prasanta K.; Maharana, J.) Path integral derivation of the Chern-Simons terms in string theories. **89f:83085**

Das, Kanika *see* **Krori, K. D.; et al., 89j:83081**

Delbourgo, R. (*with* Zhang, R. B.) Grassmannian Kaluza-Klein theory and the standard model. **89k:83069**

Demaret, J. *see* **De Rop, Y., 89m:83084**

Demiański, M. (*with* Golda, Z. A.; Heller, Michael; Szydłowski, Marek) Kantowski-Sachs multidimensional cosmological models and dynamical dimensional reduction. **89f:83086**

Demichev, A. P. (*with* Rodionov, A. Ya.) Solutions of the Freund-Rubin type for different compactifications of eleven-dimensional space. **89a:83057**

Dereli, T. *see* **Arik, M., 89j:83068**

De Rop, Y. (*with* Demaret, J.) Using EXCALC to study nondiagonal multidimensional spatially homogeneous cosmologies. **89m:83084**

Deruelle, Nathalie (*with* Madore, John) The Friedmann universe as an attractor of a Kaluza-Klein cosmology. **89b:83077**

Deser, S. Absence of regular static Einstein solutions in arbitrary dimension. **89d:83063**

— *see also* **Aragone, C.; et al., 89j:83067**

Duff, M. J. Supergravity, Kaluza-Klein and superstrings. **89b:83078**

— *see also* **Bergshoeff, Eric; et al., 89f:83083**

Duncan, M. J. (*with* Segrè, G.; Wheater, J. F.) Topological stability in higher-dimensional theories. **89j:83075**

Elskens, Yves Ergodic theory of the mixmaster universe in higher space-time dimensions. II. **89g:83043**

Evans, J. M. Super p-brane Wess-Zumino terms. **89f:83087**

— *see also* **Achúcarro, A.; et al., 89f:83082**

Falco, E. E. *see* **Ferrari, J. A.; et al., 89m:83085**

Fehér, L. Gy. *see* **Cordani, B.; et al., 89f:83084**

Ferrara, S. *see* **Cecotti, S.; et al., 89j:83072**

Ferrari, J. A. (*with* Griego, J.; Falco, E. E.) The Kaluza-Klein theory and four-dimensional spacetime. **89m:83085**

Fukui, Takao 5D space-time-mass gravity theory with off-diagonal components in the metric tensor. **89j:83076**

— Fundamental constants and higher-dimensional universe. **89k:83070**

Gepner, Doron Exactly solvable string compactifications on manifolds of SU(N) holonomy. **89h:83035**

Gibbons, Gary (*with* Maeda, Kei-ichi) Black holes and membranes in higher-dimensional theories with dilaton fields. **89d:83064**

Giorgini, Bruno Fermionic symmetry-breaking in a ten-dimensional cosmological model. (French summary) **89m:83086**

Girardello, L. *see* **Cecotti, S.; et al., 89j:83072**

Golda, Z. A. *see* **Demiański, M.; et al., 89f:83086**

Goodman, Mark W. Exponential suppression of string interactions on orbifolds. **89j:83077**

Goswami, D. *see* **Krori, K. D., 89j:83080**

Govaerts, Jan Isometric compactifications of gravity-Yang-Mills theories. **89a:83058**

Gregory, Ruth (*with* Laflamme, R.) Hypercylindrical black holes. **89e:83069**

Griego, J. *see* **Ferrari, J. A.; et al., 89m:83085**

Gross, David J. The heterotic string theory. (*see* **89f:81005**)

Harvey, Jeffrey A. Orbifolds and twisted strings. (*see* **89f:81005**)

Heller, Michael *see* **Demiański, M.; et al., 89f:83086**

Horváthy, P. A. *see* **Cordani, B.; et al., 89f:83084**

Hu, Si Zhu *see* **Cai, Sheng Shan; et al., 89d:83062**

Huang, Chao Guang *see* **Liu, Liao, 89e:83074**

Huang, Wung Hong Kaluza-Klein reduction of Gauss-Bonnet curvature. **89e:83070**

Ianuş, S. (*with* Vişinescu, M.) Kaluza-Klein theory with scalar fields and generalised Hopf manifolds. **89a:83059**

Ishihara, Hideki *see* **Tomimatsu, A., 89g:83049**

Iyer, Balasubramanian Ramakrishna (*with* Vishveshwara, C. V.) The Frenet-Serret formalism and black holes in higher dimensions. **89g:83044**

Kalara, S. (*with* Kounnas, Costas; Olive, K. A.) Gravitational equations of motion at the string scale. **89j:83078**

Kallosh, R. Strings and superspace. (*see* **89f:81005**)

Karlhede, A. (*with* Lindström, U.) Super-Weyl-invariant spinning p-branes. **89j:83079**

Kounnas, Costas *see* **Kalara, S.; et al., 89j:83078**

Kripfganz, J. (*with* Perlt, H.) Higher-dimensional cosmology and the Gauss-Bonnet term. **89d:83065**

— (*with* Perlt, H.) Cosmological impact of winding strings. **89e:83071**

Krori, K. D. (*with* Goswami, D.) Higher-dimensional Einstein-Cartan cosmology. (French summary) **89j:83080**

— (*with* Borgohain, P.; Das, Kanika) Interior Schwarzschild-like solution in higher dimensions. **89j:83081**

Kubyshin, Yu. A. (*with* Mourão, J. M.; Volobuev, I. P.) Spontaneous compactification and dimensional reduction. **89i:83056**

— *see also* **Volobuev, I. P., 89b:83090**

Kuz′min, V. A. *see* **Berezin, V. A., 89j:83069**

Laflamme, R. *see* **Gregory, Ruth, 89e:83069**

Lai, Choy-Heng *see* **Oh, C. H.; et al., 89j:83083**

Lazarides, G. (*with* Shafi, Q.) Freely acting Z_3 symmetries of a Yau manifold and three-generation superstring models. **89m:83087**

Lee, Joohan (*with* Sorkin, Rafael D.) Derivation of a Bogomol′ny inequality in five-dimensional Kaluza-Klein theory. **89e:83072**

Lee, Shih Chang Soliton transformations for axially symmetric higher-dimensional gravity. I. Generalized Neugebauer-Kramer transformations. **89b:83079**

— Soliton transformations for axially symmetric higher-dimensional gravity. II. Belinskiĭ-Zakharov N-soliton transformations. **89b:83080**

León, Juan *see* **Chang, Ngee-Pong; et al., 89e:83068**

Letelier, P. S. (*with* Verdaguer, E.) Cosmic strings in extra dimensions. **89c:83045**

Li, Da-Xi *see* **Chang, Ngee-Pong; et al., 89i:83055**

Li, Xin Zhou *see* **Cai, Sheng Shan; et al., 89d:83062; Zhang, Guang Yuan**^{2}**; et al., 89f:83095** *and* **Xu, Jian Jun, 89j:83085**

Lindström, U. *see* **Karlhede, A., 89j:83079**

Liu, Hong Ya (*with* Shi, Wan Zhong) Plane-wave solutions in five-dimensional Kaluza-Klein theories. **89e:83073**

Liu, Liao (*with* Huang, Chao Guang) Quantum cosmology in superstring theory—a toy model. **89e:83074**

Lorenz-Petzold, Dieter Higher-dimensional Taub-NUT-de Sitter solutions. **89b:83081**

— String-generated generalizations of the Nariai solution. **89d:83066**

— String-generated magnetic solutions of higher-dimensional gravity. **89c:83046**

— Higher-dimensional Gauss-Bonnet cosmologies. **89k:83071**

Louis, Jan *see* **Cvetič, Mirjam; et al., 89j:83074**

Love, Alex *see* **Bailin, David; et al., 89d:83060**

Madore, John *see* **Deruelle, Nathalie, 89b:83077**

Maeda, Kei-ichi *see* **Gibbons, Gary, 89d:83064**

Maharana, J. *see* **Das, Ashok; et al., 89f:83085**

Maia, M. D. Geometric space-time perturbation. I. Multiparameter perturbations. **89a:83060a**

— Geometric space-time perturbation. II. Gauge invariance. **89a:83060b**

— Fermion chirality in noncompact Kaluza-Klein theory. **89f:83088**

Mańka, Roman The variational approach to the Kaluza-Klein theory. **89d:83067**

Mankoč-Borštnik, N. (*with* Pavšič, Matej) A systematic examination of 5-dimensional Kaluza-Klein theory with sources consisting of point particles or strings. (Italian and Russian summaries) **89j:83082**

Markushevich, D. G. (*with* Ol′shanetskiĭ, M. A.; Perelomov, A. M.) Description of a class of superstring compactifications related to semisimple Lie algebras. **89a:83061**

Matos, Tonatiuh Magnetized Schwarzschild solution in five-dimensional gravity. **89k:83072**

Mazur, Paweł O. Cobordisms and semiclassical instability of toroidal compactifications. **89b:83082**

Mignemi, S. Higher-dimensional quasi-Riemannian cosmologies. **89g:83045**

Mohapatra, Pramoda K. Comments on possible new three-generation Calabi-Yau manifolds. **89m:83088**

— *see also* **Barr, S. M., 89k:83068**

Mourão, J. M. *see* **Kubyshin, Yu. A.; et al., 89i:83056**

Müller-Hoissen, Folkert (*with* Stückl, Richard) Coset spaces and ten-dimensional unified theories. **89b:83083**

— Modification of Einstein-Yang-Mills theory from dimensional reduction of the Gauss-Bonnet action. **89g:83046**

— Nonminimal coupling from dimensional reduction of the Gauss-Bonnet action. **89a:83062**

Nagarajan, R. *see* **Parthasarathy, Ragavachariar; et al., 89b:83084**

Odintsov, S. D. Casimir effect in multidimensional quantum supergravities and supersymmetry breaking. **89i:83057**

— *see also* **Bukhbinder, I. L., 89e:83067** *and* **89j:83071**

Oh, C. H. (*with* Singh, Kuldip^2; Lai, Choy-Heng) Consistency in the Kaluza-Klein scheme. **89j:83083**

Olive, K. A. *see* **Kalara, S.; et al., 89j:83078**

Ol'shanetskiĭ, M. A. *see* **Markushevich, D. G.; et al., 89a:83061**

Ovrut, Burt A. *see* **Cvetič, Mirjam; et al., 89j:83074**

Panigrahi, Prasanta K. *see* **Das, Ashok; et al., 89f:83085**

Parthasarathy, Ragavachariar On certain aspects of Kaluza-Klein theory. **89e:83075**

— (*with* Nagarajan, R.; Rajasekaran, G.) Quantum interference effects in a generalised Kaluza-Klein theory. **89b:83084**

Pasini, Antonello A conceptual introduction to the Kaluza-Klein theory. (Italian summary) (Not in MR)

Pasquinucci, A. *see* **Cecotti, S.; et al., 89j:83072**

Pavšič, Matej *see* **Mankoč-Borštnik, N., 89j:83082**

Pekonen, Osmo The Einstein field equation in a multidimensional universe. **89j:83084**

Perelomov, A. M. *see* **Markushevich, D. G.; et al., 89a:83061**

Pérez-Mercader, Juan *see* **Chang, Ngee-Pong; et al., 89e:83068** *and* **89i:83055**

Perlt, H. *see* **Kripfganz, J., 89d:83065** *and* **89e:83071**

Pervez, Amjad (*with* Qadir, Asghar) Some comments on the original Kaluza-Klein theory. **89a:83063**

Pitkänen, Matti Juhani Topological geometrodynamics. (German summary) **89m:83089**

Ponce de León, J. Cosmological models in a Kaluza-Klein theory with variable rest mass. **89f:83089**

Pope, C. N. (*with* Stelle, K. S.) The Witten index for the supermembrane. **89k:83073**

— *see also* **Bergshoeff, Eric; et al., 89f:83083**

Popov, A. D. Hidden symmetries of theories of Kaluza-Klein type. (Russian. English summary) **89a:83064**

Porrati, Massimo *see* **Cecotti, S.; et al., 89j:83072**

Qadir, Asghar *see* **Pervez, Amjad, 89a:83063**

Rajasekaran, G. *see* **Parthasarathy, Ragavachariar; et al., 89b:83084**

Reuter, M. Consistent interaction for infinitely many massless spin-two fields by dimensional reduction. **89g:83047**

Rodionov, A. Ya. *see* **Demichev, A. P., 89a:83057**

Rosenbaum, M. (*with* Ryan, Michael P., Jr.) Spontaneous compactification and coupling constants in $\mathbf{R}^2$ unified gauge theories. **89i:83058**

Ryan, Michael P., Jr. *see* **Rosenbaum, M., 89i:83058**

Saka, Kōichi Asymptotic behavior of Robertson-Walker models in Kaluza-Klein cosmology. **89d:83068**

Salam, A. *see* **Bergshoeff, Eric; et al., 89d:83061**

Schmutzer, Ernst Cosmology on the basis of a new five-dimensional projective unified field theory. I. Dust universe in general. **89b:83085**

— Cosmology on the basis of a new five-dimensional projective unified field theory. II. Special solutions for the dust universe. **89k:83074**

Segrè, G. *see* **Duncan, M. J.; et al., 89j:83075**

Sezgin, E. *see* **Bergshoeff, Eric; et al., 89d:83061** *and* **89f:83083**

Shafi, Q. *see* **Lazarides, G., 89m:83087**

Shen, You Gen Kaluza-Klein cosmology with matter field quanta. (Chinese) (Not in MR)

Shi, Wan Zhong *see* **Liu, Hong Ya, 89e:83073**

Singh, Kuldip^2 *see* **Oh, C. H.; et al., 89j:83083**

Sivakumar, M. Consistent spin-one theories by Kaluza-Klein dimensional reduction. **89b:83086**

Sokołowski, Leszek M. Uniqueness of the metric line element in dimensionally reduced theories. **89k:83075**

Sorkin, Rafael D. *see* **Lee, Joohan, 89e:83072**

Sorokin, D. P. (*with* Tkach, V. I.) Spontaneous compactification of subspaces in Kaluza-Klein theories. **89f:83090**

Stawicki, Tadeusz *see* **Szydłowski, Marek; et al., 89h:83036**

Stelle, K. S. *see* **Pope, C. N., 89k:83073**

Stückl, Richard *see* **Müller-Hoissen, Folkert, 89b:83083**

Szczęsny, Jerzy *see* **Szydłowski, Marek; et al., 89a:83065; Biesiada, Marek; et al., 89c:83044; Szydłowski, Marek; et al., 89c:83047; 89d:83069; 89h:83036** *and* **Biesiada, Marek; et al., 89j:83070**

Szydłowski, Marek (*with* Szczęsny, Jerzy; Biesiada, Marek) Quantum effects in multidimensional homogeneous cosmological models. **89d:83069**

— (*with* Szczęsny, Jerzy; Biesiada, Marek) Is the space-time dimension 11 distinguished in cosmology? **89a:83065**

— (*with* Biesiada, Marek; Szczęsny, Jerzy) Multidimensional mixmaster models. **89c:83047**

— The problem of chaotic behaviour in a homogeneous arbitrarily dimensional cosmology. **89c:83048**

— (*with* Szczęsny, Jerzy; Stawicki, Tadeusz) The dimensional reduction in the Kantowski-Sachs $\times T^D$ model with quantum corrections. **89h:83036**

— Stability and dimensional reduction. **89g:83048**

— Dimensional reduction and the stability problem in multidimensional homogeneous cosmology. **89i:83059**

— *see also* **Biesiada, Marek; et al., 89c:83044; Demiański, M.; et al., 89f:83086** *and* **Biesiada, Marek; et al., 89j:83070**

Tanii, Yoshiaki *see* **Bergshoeff, Eric; et al., 89d:83061**

Tartaglia, A. Problems with the spontaneous dimensional reduction of Kaluza-Klein theories by means of antisymmetric tensor fields in five dimensions. **89i:83060**

Tchrakian, D. H. On the dimensional reduction of gravity with torsion. **89b:83087**

Teitelboim, Claudio (*with* Zanelli, Jorge) Gravitation theory generated by dimensional continuation of the Euler characteristic as a constrained Hamiltonian system. **89b:83088**

Thomas, Steven *see* **Bailin, David; et al., 89d:83060**

Tkach, V. I. *see* **Sorokin, D. P., 89f:83090**

Tomimatsu, A. (*with* Ishihara, Hideki) Nonlinear wave propagation in the Gauss-Bonnet extended Einstein theory. **89g:83049**

— Scalar-coupled black holes in classical Kaluza-Klein theory with the Lovelock Lagrangian. **89g:83050**

Townsend, P. K. Supersymmetric extended solitons. **89f:83091**

— *see also* **Achúcarro, A.; et al., 89f:83082**

Turkowski, Paweł A multidimensional radiation-filled universe. **89b:83089**

— A multidimensional extension of the Bianchi type-IX cosmology. **89d:83070**

Verdaguer, E. *see* **Letelier, P. S., 89c:83045**

Verde, Mario A symmetric Hermitian model of space-time. (Italian) **89f:83092**

Vishveshwara, C. V. *see* **Iyer, Balasubramanian Ramakrishna, 89g:83044**

Vişinescu, M. *see* **Ianuş, S., 89a:83059**

Volobuev, I. P. (*with* Kubyshin, Yu. A.) Physical interpretation of solutions of the theory of spontaneous compactification. **89b:83090**

— *see also* **Kubyshin, Yu. A.; et al., 89i:83056**

Wheater, J. F. *see* **Duncan, M. J.; et al., 89j:83075**

Wheeler, James T. 26-dimensional string from 4-dimensional geometry. **89i:83061**

Wiltshire, D. L. *see* **Achúcarro, A.; et al., 89f:83082**

Witten, Edward Holomorphic curves on manifolds of SU(3) holonomy. (*see* **89m:81001**)

Wolf, Carl Anton Maxwell-Einstein theory in 13 dimensions with compactified timelike dimensions. (French summary) **89f:83093**

Wurmser, D. Classical stability of $M^4 \times S^N$. (Italian and Russian summaries) **89f:83094**

Xu, Dian Yan Exact solutions of Einstein and Einstein-Maxwell equations in higher-dimensional spacetime. **89e:83076**

Xu, Jian Jun (*with* Li, Xin Zhou) A class of generalized monopole solutions in Kaluza-Klein theories. **89j:83085**

Yang, Zhu *see* **Aragone, C.; et al., 89j:83067**

Zanelli, Jorge *see* **Teitelboim, Claudio, 89b:83088**

Zhang, Guang Yuan^2 (*with* Cai, Wei Cheng; Li, Xin Zhou) Fermion fields in the soliton background of a six-dimensional pure Kaluza-Klein theory. (Chinese. English summary) **89f:83095**

Zhang, R. B. *see* **Delbourgo, R., 89k:83069**

Items with secondary classifications in 83E15

Actor, Alfred Conventional zeta-function derivation of high-temperature expansions. **89d:82024**

— One-loop Feynman diagram zeta functions for toroidal spacetime. **89k:81097**

Aref'eva, I. Ya. (*with* Volovich, I. V.; Dragović, B. G.) Spontaneous reduction in multidimensional ($D = 10, 11$) theories of supergravity with arbitrary signature. (Russian. English summary) **89c:83049**

Bailin, David (*with* Love, Alex; Thomas, Steven) Orbifold compactified superstring models with tetrahedral and octahedral point groups. **89a:81167**

Bambusi, D. The Yang-Mills field reduced to a metric of a three-dimensional space. (Italian and Russian summaries) **89b:81115**

Bars, Itzhak (*with* Pope, C. N.; Sezgin, E.) Massless spectrum and critical dimension of the supermembrane. **89b:81152**

— First massive level and anomalies in the supermembrane. **89j:81159**

— (*with* Pope, C. N.; Sezgin, E.) Central extensions of area preserving membrane algebras. **89j:81158**

Barut, A. O. (*with* Pavšič, Matej) Kaluza-Klein approach to the classical model of the Dirac electron. **89j:81135**

Bergshoeff, Eric (*with* Sezgin, E.; Tanii, Yoshiaki) Hamiltonian formulation of the supermembrane. **89c:81102**

Bershadskiĭ, M. A. Off-shell string amplitudes and singular states in bosonic string theory. **89b:81174**

Birmingham, Danny (*with* Kantowski, R.; Milton, Kimball A.) Scalar and spinor Casimir energies in even-dimensional Kaluza-Klein spaces of the form $M^4 \times S^{N_1} \times S^{N_2} \times \cdots$. **89j:83044**

Bonora, L. (*with* Pasti, P.; Tonin, M.) Chiral anomalies in higher-dimensional supersymmetric theories. **89f:81093**

Breitenlohner, Peter (*with* Maison, Dieter; Gibbons, Gary) 4-dimensional black holes from Kaluza-Klein theories. **89j:83018**

Brown, J. David (*with* Teitelboim, Claudio) Neutralization of the cosmological constant by membrane creation. **89d:83081**

Bukhbinder, I. L. (*with* Wolfengaut, J. J.) Renormalisation group equations and effective action in curved spacetime. **89m:81113**

— (*with* Odintsov, S. D.) Effective action in multi-dimensional supergravities and induced Einstein gravity. **89i:83062**

— (*with* Lavrov, P. M.; Odintsov, S. D.) Unique effective action in Kaluza-Klein quantum theories and spontaneous compactification. **89j:83036**

Castellani, L. Chiral $D = 10$, $N = 2$ supergravity on the group manifold. I. Free differential algebra and solution of Bianchi identities. **89e:83080**

Chau, Ling-Lie Linear systems and conservation laws of gravitational fields in four plus extended superspace. **89d:83071**

Chung, Ki Soo (*with* Han, Chang Woo; Kim, Jae Kwan; Koh, I. G.) Becchi-Rouet-Stora structure and gauge-invariant actions for higher-spin fields. **89j:81096**

Coquereaux, Robert (*with* Jadczyk, Arkadiusz Z.) ★ Riemannian geometry, fiber bundles, Kaluza-Klein theories and all that **89e:53108**

Deguchi, Shinichi (*with* Naka, Shigefumi) Planck mass problem in the Kaluza-Klein theory with a supersymmetric extra space. II. Case of spinor fields. **89c:81084**

Delbourgo, R. (*with* Zhang, R. B.) Fermionic dimensions and Kaluza-Klein theory. **89b:81122**

Dereli, T. (*with* Mukherjee, Manash; Tucker, R. W.) Weyl invariant tensors in odd dimensions. **89e:53030**

Deruelle, Nathalie Cosmologies primordiales, leur variété, leurs constraintes. (English summary) [Primordial cosmologies, their variety, their constraints] **89f:83113**

Dragović, B. G. *see* **Aref'eva, I. Ya.; et al., 89c:83049**
Duff, M. J. Supermembranes: the first fifteen weeks. **89d:83072**
Finkelstein, Shlomit Ritz Gravity in hyperspin manifolds. **89i:53052**
Foussats, A. (*with* Zandron, O.) Canonical covariant formalism for gravity and supergravity in more than four dimensions. **89f:83100**
Freed, Daniel S. (*with* Vafa, Cumrun) Global anomalies on orbifolds. **89c:58130**
— (*with* Vafa, Cumrun) Comment: "Global anomalies on orbifolds" [Comm. Math. Phys. **110** (1987), no. 3, 349–389; MR 89c:58130]. **89h:58197**
Fujii, Kazuyuki (*with* So, Hiroto; Suwa, Misako) Extended Skyrme models in even dimensions and higher-dimensional solitons. II. Wess-Zumino terms in two and higher dimensions. **89m:81142**
Furlong, Randall C. Dynamical cosmic strings from a gauge theory of gravity. **89k:83082**
Gibbons, Gary *see* **Breitenlohner, Peter; et al., 89j:83018**
Giveon, A. Constraints on asymmetric orbifolds. **89b:81190**
Gleiser, Reinaldo Solitonic perturbations of perfect fluid cosmological models. **89i:83015**
Greene, Brian R. (*with* Kirklin, Kelley H.) On the equivalence of the two most favoured Calabi-Yau compactifications. **89b:32017**
Grøn, Ø. (*with* Soleng, Harald H.) On the physical interpretation of Wesson's gravitational theory. **89m:83075**
Han, Chang Woo *see* **Chung, Ki Soo; et al., 89j:81096**
Holm, Christian Neutrino spectrum of Einstein universes. **89k:81059**
Huggins, S. R. (*with* Kunstatter, G.; Leivo, H. P.; Toms, David J.) The Vilkovisky-DeWitt effective action for quantum gravity. **89j:83040**
Jadczyk, Arkadiusz Z. *see* **Coquereaux, Robert, 89e:53108**
Kalinowski, M. W. The program of geometrization of physics: some philosophical remarks. **89j:83001**
Kantowski, R. *see* **Birmingham, Danny; et al., 89j:83044**
Kerner, Richard Électrodynamique non linéaire en théorie de Kaluza et Klein. (English summary) [Nonlinear electrodynamics in Kaluza-Klein theory] **89k:83042**
— (*with* Nikolova, Lora; Rizov, V.) A two-level Kaluza-Klein theory. **89c:53060**
Kim, Jae Kwan *see* **Chung, Ki Soo; et al., 89j:81096**
Kirklin, Kelley H. *see* **Greene, Brian R., 89b:32017**
Koh, I. G. *see* **Chung, Ki Soo; et al., 89j:81096**
Kozimirov, N. G. (*with* Kuz′min, V. A.; Tkachev, I. I.) On symmetry breaking at coset space dimensional reduction. **89i:53056**
Kubyshin, Yu. A. *see* **Volobuev, I. P., 89h:81149**
Kunstatter, G. *see* **Huggins, S. R.; et al., 89j:83040**
Kuz′min, V. A. *see* **Kozimirov, N. G.; et al., 89i:53056**
Labastida, J. M. F. (*with* Pernici, M.) Kähler-Dirac ghosts for self-dual fields. **89e:81093**
Landi, G. (*with* Marmo, G.) Einstein algebras and the algebraic Kaluza-Klein monopole. **89f:53106**
Lauer, Jürgen (*with* Lüst, Dieter; Theisen, Stefan) Four-dimensional supergravity from four-dimensional strings. **89k:83077**
Lavrov, P. M. (*with* Odintsov, S. D.; Tyutin, I. V.) Effective actions in theories of quantum gravity. **89d:83037**
— *see also* **Bukhbinder, I. L.; et al., 89j:83036**
Lawrynowicz, Julian (*with* Rembieliński, J.) Pseudo-Euclidean Hurwitz pairs and the Kaluza-Klein theories. **89h:53131**
Lee, Chul H. (*with* Lee, Hyun Kyu) Kasner-type solution in a higher-derivative gravity theory. **89k:83062**
Lee, Hyun Kyu *see* **Lee, Chul H., 89k:83062**
Leivo, H. P. *see* **Huggins, S. R.; et al., 89j:83040**
Lorenz-Petzold, Dieter Nonsingular anisotropic cosmologies of no-scale supergravity. **89i:83064**
Love, Alex *see* **Bailin, David; et al., 89a:81167**
Lüst, Dieter *see* **Lauer, Jürgen; et al., 89k:83077**
Maison, Dieter *see* **Breitenlohner, Peter; et al., 89j:83018**
Marmo, G. *see* **Landi, G., 89f:53106**
Milton, Kimball A. *see* **Birmingham, Danny; et al., 89j:83044**
Mukherjee, Manash *see* **Dereli, T.; et al., 89e:53030**
Myers, Robert C. (*with* Simon, Jonathan Z.) Black-hole thermodynamics in Lovelock gravity. **89i:83041**
Naka, Shigefumi *see* **Deguchi, Shinichi, 89c:81084**
Nikolova, Lora *see* **Kerner, Richard; et al., 89c:53060**
Nissimov, E. (*with* Pacheva, S.; Solomon, S.) Covariant canonical quantization of the Green-Schwarz superstring. **89a:81143**
— (*with* Pacheva, S.; Solomon, S.) Covariant first and second quantization of the $N = 2$, $D = 10$ Brink-Schwarz superparticle. **89e:81166**
— (*with* Pacheva, S.; Solomon, S.) Covariant unconstrained superfield action for the linearized $D = 10$ super-Yang-Mills theory. **89f:81103**
O'Brien, G. M. (*with* Tchrakian, D. H.) Spin-connection generalized Yang-Mills fields on double-dual generalized Einstein-Cartan backgrounds. **89j:81108**
Odintsov, S. D. *see* **Lavrov, P. M.; et al., 89d:83037; Bukhbinder, I. L., 89i:83062** *and* **89j:83036**
Pacheva, S. *see* **Nissimov, E.; et al., 89a:81143; 89e:81166** *and* **89f:81103**
Pasti, P. *see* **Bonora, L.; et al., 89f:81093**
Pavšič, Matej *see* **Barut, A. O., 89j:81135**
Pernici, M. *see* **Labastida, J. M. F., 89e:81093**
Pope, C. N. Sigma model β-functions at all loop orders. (*see* **89g:81058**)
— *see also* **Bars, Itzhak; et al., 89b:81152** *and* **89j:81158**
Popov, A. D. Spontaneous compactification of $d = 11$ supergravity due to Rarita-Schwinger fields. (Russian. English summary) **89d:83076**
— Chiral fermions in $N = 2$, $d = 10$ supergravity with additional time dimensions. **89f:83105**
— Chiral fermions in $d = 11$ supergravity with additional time-like dimensions. **89k:83080**
Ragiadakos, C. N. Bosonic string amplitude on a twisted cylinder and string interactions. **89d:81111**
Rembieliński, J. *see* **Lawrynowicz, Julian, 89h:53131**
Rizov, V. *see* **Kerner, Richard; et al., 89c:53060**
Rosen, Nathan (*with* Tauber, Gerald E.) A generalization of an Einstein-Mayer theory. **89d:83078**
Ross, Graham G. Discrete symmetries and the complex structure of Calabi-Yau manifolds. **89c:32072**
Rudolph, Gerd Classification of G-invariant configurations of Einstein-Cartan theory on a multidimensional universe. **89f:53112**
Schmutzer, Ernst Projective relativity and quantum fields. **89e:83066**
Sezgin, E. *see* **Bars, Itzhak; et al., 89b:81152; Bergshoeff, Eric; et al., 89c:81102** *and* **Bars, Itzhak; et al., 89j:81158**
Simon, Jonathan Z. *see* **Myers, Robert C., 89i:83041**
So, Hiroto *see* **Fujii, Kazuyuki; et al., 89m:81142**
Soleng, Harald H. *see* **Grøn, Ø., 89m:83075**
Solomon, S. *see* **Nissimov, E.; et al., 89a:81143; 89e:81166** *and* **89f:81103**
Sorokin, D. P. *see* **Volkov, D. V.; et al., (89d:81001)**
Stelle, K. S. (*with* Townsend, P. K.) Are 2-branes better than 1? **89m:81164**
Suwa, Misako *see* **Fujii, Kazuyuki; et al., 89m:81142**
Tanii, Yoshiaki *see* **Bergshoeff, Eric; et al., 89c:81102**
Tauber, Gerald E. A geometrical approach to cosmology. **89g:53110**
— *see also* **Rosen, Nathan, 89d:83078**
Tchrakian, D. H. *see* **O'Brien, G. M., 89j:81108**
Teitelboim, Claudio *see* **Brown, J. David, 89d:83081**
Theisen, Stefan *see* **Lauer, Jürgen; et al., 89k:83077**
Thomas, Steven *see* **Bailin, David; et al., 89a:81167**
Tkach, V. I. *see* **Volkov, D. V.; et al., (89d:81001)**
Tkachev, I. I. *see* **Kozimirov, N. G.; et al., 89i:53056**
Toms, David J. *see* **Huggins, S. R.; et al., 89j:83040**
Tonin, M. *see* **Bonora, L.; et al., 89f:81093**
Townsend, P. K. *see* **Stelle, K. S., 89m:81164**
Tucker, R. W. *see* **Dereli, T.; et al., 89e:53030**
Turkowski, Paweł Classification of multidimensional spacetimes. **89m:17008**
Tyutin, I. V. *see* **Lavrov, P. M.; et al., 89d:83037**
Vafa, Cumrun *see* **Freed, Daniel S., 89c:58130** *and* **89h:58197**
Vashakidze, Sh. I. ★ Equations of motion for the new $D = 10$, $N = 1$, supergravity-Yang-Mills theory. **89f:83107**
Volkov, D. V. (*with* Sorokin, D. P.; Tkach, V. I.) Spontaneous compactification of spaces of additional dimensions in supergravities with more than four dimensions. (Russian) (*see* **89d:81001**)
Volobuev, I. P. (*with* Kubyshin, Yu. A.) Spontaneous compactification from the point of view of dimensional reduction of gauge fields. **89h:81149**
Volovich, I. V. *see* **Aref'eva, I. Ya.; et al., 89c:83049**
Witten, Edward Positive energy and Kaluza-Klein theory. **89g:83037**
Wolfengaut, J. J. *see* **Bukhbinder, I. L., 89m:81113**
Wu, Yong Shi[1] (*with* Zee, A.) Membranes, higher Hopf maps, and phase interactions. **89f:81141**
Zandron, O. *see* **Foussats, A., 89f:83100**
Zee, A. *see* **Wu, Yong Shi**[1]**, 89f:81141**
Zhang, R. B. *see* **Delbourgo, R., 89b:81122**
Zoupanos, G. Wilson flux breaking and coset space dimensional reduction. **89e:81100**

83E30 Geometric aspects of string and superstring theories (use only for secondary classification)

Items with secondary classifications in 83E30

Abe, Mitsuko (*with* Kubota, Hiroshi; Sakai, Norisuke) Loop corrections to the $E_8 \times E_8$ heterotic string effective Lagrangian. **89f:81149**
Achúcarro, A. (*with* Evans, J. M.; Townsend, P. K.; Wiltshire, D. L.) Super p-branes. **89f:83082**
Adimoolam, C. Calabi-Yau manifolds. **89f:32054**
Alvarez-Gaumé, L. Geometrical methods in the quantum theory of fields and strings. (*see* **89f:81005**)
Andreev, O. D. (*with* Tseytlin, A. A.) Generating functional for scattering amplitudes and the effective action in the open superstring theory. **89f:81151**
Aoyama, S. Nonlinear realization of the Virasoro-Kac-Moody algebras and the anomalies. **89h:22039**
Aragone, C. Stringy characteristics of effective gravity. **89d:83035**
Aratyn, Henrik (*with* Ingermanson, Randall; Niemi, Antti J.) OSp(1, 1/2) and Parisi-Sourlas supersymmetry for closed strings. **89a:81110**
— (*with* Ingermanson, Randall; Niemi, Antti J.) Parisi-Sourlas fermions from Ramond superstring. **89a:81111**
— (*with* Ingermanson, Randall) Algebraic approach to the geometry of the (super-) string model. **89f:81153**
Arik, M. (*with* Neyzi, Fahrünisa) Grassmannian σ-models and strings. **89f:81154**
Aspinwall, P. S. (*with* Greene, Brian R.; Kirklin, Kelley H.; Miron, Paul) Searching for three-generation Calabi-Yau manifolds. **89e:53071**
Atick, Joseph J. (*with* Rabin, Jeffrey M.; Sen, Ashoke) An ambiguity in fermionic string perturbation theory. **89f:81156**
Axenides, Minos (*with* Ellis, Stephen D.; Kounnas, Costas) Universal behavior of D-dimensional superstring models. **89c:81101**
Bailin, David (*with* Love, Alex; Thomas, Steven) Generalised GSO projections for Z-orbifold heterotic string compactifications with "Wilson lines". **89d:83060**
— (*with* Love, Alex; Thomas, Steven) Orbifold compactified superstring models with tetrahedral and octahedral point groups. **89a:81167**
Barbero, F. (*with* Julve, J.; Tiemblo, A.; Tresguerres, R.) Dynamical approach to conformal gravity and the bosonic string effective action. **89m:81089**
Barr, S. M. (*with* Mohapatra, Pramoda K.) Changing coupling "constants" and violation of the equivalence principle. **89k:83068**
Bars, Itzhak (*with* Pope, C. N.; Sezgin, E.) Massless spectrum and critical dimension of the supermembrane. **89b:81152**
— First massive level and anomalies in the supermembrane. **89j:81159**

— (*with* Pope, C. N.; Sezgin, E.) Central extensions of area preserving membrane algebras. **89j:81158**

Bellucci, Stefano (*with* Gates, S. James, Jr.) $D = 10$, $N = 1$ superspace supergravity and the Lorentz Chern-Simons form. **89e:83077**

Bergshoeff, Eric (*with* Duff, M. J.; Pope, C. N.; Sezgin, E.) Supersymmetric supermembrane vacua and singletons. **89f:83083**

— (*with* Salam, A.; Sezgin, E.; Tanii, Yoshiaki) $N = 8$ supersingleton quantum field theory. **89j:81136**

— (*with* Salam, A.; Sezgin, E.; Tanii, Yoshiaki) Singletons, higher spin massless states and the supermembrane. **89d:83061**

Bershadskiĭ, M. A. The superbranch points and two-loop correction in the heterotic string theory. **89f:81128**

Bilal, Adel (*with* Gervais, Jean-Loup) Modular invariance for closed strings at the new critical dimensions. **89a:81113**

Blencowe, M. P. (*with* Duff, M. J.) Supersingletons. **89j:81163**

Bochicchio, Marco BRST quantization of superstring field theory. **89c:81105**

Bogojević, Aleksandar R. BRST invariance of the measure in string field theory. **89a:81114**

Bonora, L. (*with* Bregola, M.; Lechner, K.; Pasti, P.; Tonin, M.) Anomaly-free supergravity and super-Yang-Mills theories in ten dimensions. **89c:83050**

Bregola, M. *see* **Bonora, L.; et al., 89c:83050**

Brink, Lars (*with* Henneaux, M.) ★ Principles of string theory. **89i:81001**

— *see also* **Unification of fundamental interactions, 89f:81005**

Brooks, Roger (*with* Muhammad, Fuad; Gates, S. James, Jr.) Extended $D = 2$ supergravity theories and their lower superspace realisations. **89f:83096**

Bytsenko, A. A. *see* **Goncharov, Yu. P., 89e:83083**

Callan, Curtis G., Jr. Strings in background fields. (*see* **89f:81005**)

Candelas, P. Yukawa couplings between (2, 1)-forms. (*see* **89m:81001**)

— (*with* Lütken, C. A.; Schimmrigk, Rolf) Complete intersection Calabi-Yau manifolds. II. Three generation manifolds. **89g:53102**

Cecotti, S. (*with* Ferrara, S.; Villasante, M.) Linear multiplets and super Chern-Simons forms in 4D supergravity. **89f:83097**

— (*with* Ferrara, S.; Girardello, L.) Gravitational supervertices in $n = 1$, 4D superstrings. **89a:81118**

— (*with* Ferrara, S.; Girardello, L.; Pasquinucci, A.; Porrati, Massimo) Matter-coupled supergravity with Gauss-Bonnet invariants: component Lagrangian and supersymmetry breaking. **89j:83072**

— (*with* Ferrara, S.; Girardello, L.) Hidden noncompact symmetries in string theory. **89k:81134**

Cederwall, M. Interactions in new string theories. **89a:81119**

Chang, Darwin (*with* Kumar, Alok[2]) Uniqueness of 10-dimensional superstring models in the fermionic construction. **89g:81070**

Chang, Ngee-Pong (*with* Li, Da-Xi) Models of nonabelian orbifolds. **89f:81250**

— (*with* Li, Da-Xi; Pérez-Mercader, Juan) Cosmological constant and asymmetric orbifolds. **89i:83055**

Chaves, Máximo Superstrings and the quantization of gravity. (Spanish. English summary) **89c:83035**

Chen, Wei (*with* Guo, Han Ying; Hu, Hong Liang; Yu, Yue) Remarks on superstring field theories. II. **89h:81172**

Clarizia, A. (*with* Pezzella, F.) N-reggeon vertex for the Neveu-Schwarz string. **89c:81109**

Curtright, Thomas Are there any superstrings in eleven dimensions? **89b:81181a**

— Erratum: "Are there any superstrings in eleven dimensions?". **89b:81181b**

Cvetič, Mirjam Blown-up orbifolds. **89j:83073**

— Exact construction of (0, 2) Calabi-Yau manifolds. **89a:53052**

— (*with* Louis, Jan; Ovrut, Burt A.) A string calculation of the Kähler potentials for moduli of Z_N orbifolds. **89j:83074**

Dai, Jian Hui *see* **Zha, Chao Zheng, 89h:83041**

Das, Ashok (*with* Panigrahi, Prasanta K.; Maharana, J.) Path integral derivation of the Chern-Simons terms in string theories. **89f:83085**

D'Auria, R. (*with* Fré, P.) Minimal 10D anomaly-free supergravity and the effective superstring theory. **89g:83054**

Deser, S. Gravity from strings. (*see* **89f:81005**)

Dine, Michael (*with* Seiberg, Nathan) Microscopic knowledge from macroscopic physics in string theory. **89c:81113**

— (*with* Seiberg, Nathan) Are (0, 2) models string miracles? **89f:81171**

Distler, Jacques Resurrecting (2, 0) compactifications. **89a:81124**

— (*with* Greene, Brian R.) Aspects of (2, 0) string compactifications. **89m:81135**

Di Vecchia, P. (*with* Frau, M.; Lerda, A.; Sciuto, S.) N-string vertex and loop calculation in the bosonic string. **89f:81170**

Dolan, B. P. (*with* Tchrakian, D. H.) New Lagrangians for bosonic m-branes with vanishing cosmological constant. **89i:81087**

Duff, M. J. Supergravity, Kaluza-Klein and superstrings. **89b:83078**

— Supermembranes: the first fifteen weeks. **89d:83072**

— (*with* Inami, T.; Pope, C. N.; Sezgin, E.; Stelle, K. S.) Semiclassical quantization of the supermembrane. **89h:81179**

— *see also* **Bergshoeff, Eric; et al., 89f:83083** *and* **Blencowe, M. P., 89j:81163**

Ellis, Jonathan Richard Superstring phenomenology. (*see* **89f:81005**)

— (*with* Jetzer, Philippe; Mizrachi, Leah) One-loop string corrections to the effective field theory. **89f:81173**

— (*with* Enqvist, K.; Kalara, S.; Nanopoulos, D. V.; Olive, K. A.) Phenomenological studies of rank-5 Calabi-Yau models. **89f:81259**

Ellis, Stephen D. *see* **Axenides, Minos; et al., 89c:81101**

Enqvist, K. *see* **Ellis, Jonathan Richard; et al., 89f:81259**

Evans, J. M. Super p-brane Wess-Zumino terms. **89f:83087**

— *see also* **Achúcarro, A.; et al., 89f:83082**

Ferrara, S. Higher curvature supergravity and superstrings. (*see* **89f:81005**)

— Supergravities and superstrings. **89m:83092**

— Supertheories. **89m:81137**

— (*with* Porrati, Massimo) The manifolds of scalar background fields in Z_N orbifolds. **89m:53132**

— *see also* **Cecotti, S.; et al., 89a:81118; 89f:83097; 89j:83072** *and* **89k:81134**

Font, A. (*with* Ibáñez, L. E.; Nilles, H. P.; Quevedo, F.) Degenerate orbifolds. **89j:81179a**

— (*with* Ibáñez, L. E.; Nilles, H. P.; Quevedo, F.) Erratum: "Degenerate orbifolds". **89j:81179b**

— (*with* Ibáñez, L. E.; Nilles, H. P.; Quevedo, F.) Yukawa couplings in degenerate orbifolds: towards a realistic $SU(3) \times SU(2) \times U(1)$ superstring. **89m:81139a**

— (*with* Ibáñez, L. E.; Nilles, H. P.; Quevedo, F.) Errata: "Yukawa couplings in degenerate orbifolds: towards a realistic $SU(3) \times SU(2) \times U(1)$ superstring". **89m:81139b**

Frau, M. *see* **Di Vecchia, P.; et al., 89f:81170**

Fré, P. (*with* Gliozzi, F.) Four-dimensional superstrings live on group manifolds. **89h:81186**

— *see also* **D'Auria, R., 89g:83054**

Freed, Daniel S. (*with* Vafa, Cumrun) Comment: "Global anomalies on orbifolds" [Comm. Math. Phys. **110** (1987), no. 3, 349–389; MR 89c:58130]. **89h:58197**

Fujikawa, Kazuo Path integral, BRS symmetry, and string and membrane theories. **89k:81079**

— (*with* Lindström, U.; Nielsen, N. K.; Roček, M.; van Nieuwenhuizen, P.) Regularized BRST-coordinate-invariant measure. **89f:81176**

Garreis, Reiner (*with* Louis, Jan; Ovrut, Burt A.) Topology and heterotic, gravitational, Lorentz and super-Weyl anomalies. **89f:81177**

Gates, S. James, Jr. Unidexterous superconformal theories. **89e:81145**

— (*with* Siegel, Warren) Leftons, rightons, nonlinear σ-models, and superstrings. **89k:81142**

— (*with* Lu, Liang; Oerter, Robert N.) Simplified SU(2) spinning string superspace supergravity. **89m:83094**

— *see also* **Bellucci, Stefano, 89e:83077** *and* **Brooks, Roger; et al., 89f:83096**

Gell-Mann, Murray Superstring theory: closing talk at the second Nobel symposium on particle physics, Marstrand, Sweden, June 7, 1986. (*see* **89f:81005**)

Gepner, Doron Exactly solvable string compactifications on manifolds of $SU(N)$ holonomy. **89h:83035**

Gervais, Jean-Loup *see* **Bilal, Adel, 89a:81113**

Girardello, L. $N = 1$ supergravity from extended supergravity and from superstring theories. **89b:83094**

— *see also* **Cecotti, S.; et al., 89a:81118; 89j:83072** *and* **89k:81134**

Girardi, G. (*with* Grimm, Richard) Chern-Simons forms and four-dimensional $N = 1$ superspace geometry. **89c:81124**

Gliozzi, F. *see* **Fré, P., 89h:81186**

Goncharov, Yu. P. (*with* Bytsenko, A. A.) The inflationary universe in the gauged $N = 8$ supergravity induced from a superstring. **89e:83083**

Goodman, Mark W. Exponential suppression of string interactions on orbifolds. **89j:83077**

Green, Michael B. Introduction to string and superstring theory. I. **89e:81001a**

— Superstrings. (Bulgarian) **89e:81149**

— (*with* Schwarz, John H.; Witten, Edward) ★ Superstring theory. Vol. 1. **89f:81001a**

— (*with* Schwarz, John H.; Witten, Edward) ★ Superstring theory. Vol. 2. **89f:81001b**

Greene, Brian R. (*with* Kirklin, Kelley H.; Miron, Paul) Topology and geometry in superstring-inspired phenomenology. (*see* **89m:81001**)

— *see also* **Aspinwall, P. S.; et al., 89e:53071** *and* **Distler, Jacques, 89m:81135**

Gregory, Ruth Effective action for a cosmic string. **89j:83093**

Grimm, Richard *see* **Girardi, G., 89c:81124**

Grisaru, Marcus T. (*with* Xu, Rui-Ming) Quantum supergravities in two dimensions. **89f:81179**

— (*with* Nishino, Hitoshi; Zanon, D.) β-function approach to the Green-Schwarz superstring. **89k:81090**

Gross, David J. The heterotic string theory. (*see* **89f:81005**)

— (*with* Periwal, Vipul) Heterotic string light-cone field theory. **89b:81192**

Guadagnini, E. (*with* Martellini, M.; Mintchev, M.) Vanishing of the cosmological constant for heterotic-type lower-dimensional superstrings. **89h:81192**

Guo, Han Ying *see* **Chen, Wei; et al., 89h:81172**

Harvey, Jeffrey A. Minimal conformal models and string compactification. **89i:81112**

— Orbifolds and twisted strings. (*see* **89f:81005**)

Hayashi, Masahito (*with* Kawamoto, Noboru; Kuramoto, Tetsuji; Shigemoto, Kazuyasu) Modular invariance and the gravitational anomaly in type II superstring theory. **89a:81131**

— (*with* Kawamoto, Noboru; Kuramoto, Tetsuji; Shigemoto, Kazuyasu) Gravitational anomaly cancellation in type I superstring theory. **89b:81193**

Henneaux, M. *see* **Brink, Lars, 89i:81001**

Hodgkin, Luke Super Teichmüller spaces: punctures and elliptic points. **89m:32039**

Holman, Richard (*with* Kephart, T. W.) Modular invariance and anomalies in lower-dimensional superstring theories. **89e:81151**

't Hooft, G. Strings from gravity. (*see* **89f:81005**)

Hoppe, Jens $\mathrm{Diff}_A T^2$, and the curvature of some infinite-dimensional manifolds. **89k:58046**

Hori, Takayuki Generalization of general relativity to the space of closed strings. **89b:81155**

Hu, Hong Liang *see* **Chen, Wei; et al., 89h:81172**

Huang, Chao Guang *see* **Liu, Liao, 89e:83074**

Huang, Chao Shang (*with* Zhao, Wei Dong; Zhao, Zhi Yong) Spinning string models on group manifolds with twisted boundary conditions. **89f:81182**

Huang, Wung Hong Kaluza-Klein reduction of Gauss-Bonnet curvature. **89e:83070**

Ibáñez, L. E. *see* **Font, A.; et al., 89j:81179a; 89j:81179b; 89m:81139a** *and* **89m:81139b**

Inami, T. *see* **Duff, M. J.; et al., 89h:81179**

Ingermanson, Randall *see* **Aratyn, Henrik; et al., 89a:81110; 89a:81111** *and* **89f:81153**

Inoue, Kenzo[2] (*with* Sakamoto, Makoto; Takano, Hiroshi) Nonabelian orbifolds. **89a:81134**

— (*with* Nima, Shuji; Takano, Hiroshi) Zero mode and modular invariance in string on nonabelian orbifold. **89j:81188**

Itoh, Katsumi (*with* Kato, Mitsuhiro; Kunitomo, Hiroshi; Sakamoto, Makoto) Vertex construction and zero modes of twisted strings on orbifolds. **89h:81195**

Itoi, Chigaku String vertices in a weakly curved background. **89b:81158**

Jack, I. (*with* Jones, D. R. T.; Lawrence, A. M.) Ghost freedom and string actions. **89f:81184**

Jetzer, Philippe *see* **Ellis, Jonathan Richard; et al., 89f:81173**

Jones, D. R. T. *see* **Jack, I.; et al., 89f:81184**
Julve, J. *see* **Barbero, F.; et al., 89m:81089**
Kalara, S. (*with* Kounnas, Costas; Olive, K. A.) Gravitational equations of motion at the string scale. **89j:83078**
— *see also* **Ellis, Jonathan Richard; et al., 89f:81259**
(Kalitzin, S.) *see* **Green, Michael B., 89e:81149**
Kallosh, R. Strings and superspace. (*see* **89f:81005**)
Kanno, Hiroaki (*with* Nishimura, Kimihide; Tamekiyo, Akira) Two-point functions on supertorus and supermodular invariance. **89f:81132**
Karabali, Dimitra (*with* Schnitzer, Howard J.) Gauge symmetry enlargement and accidental massless spectrum of string models on group manifolds. **89f:81188**
Karlhede, A. (*with* Lindström, U.) Super-Weyl-invariant spinning p-branes. **89j:83079**
— (*with* Roček, M.) Topological quantum field theory and $N = 2$ conformal supergravity. **89k:81102**
Kato, Mitsuhiro *see* **Itoh, Katsumi; et al., 89h:81195**
Kawamoto, Noboru *see* **Hayashi, Masahito; et al., 89a:81131** *and* **89b:81193**
Kephart, T. W. *see* **Holman, Richard, 89e:81151**
Ketov, S. V. Supersymmetric σ-models with torsion in supergravity background and critical dimensions for string theories. **89a:81094**
Khlopov, M. Yu. *see* **Kogan, Ya. I., 89c:81135**
Kirklin, Kelley H. *see* **Aspinwall, P. S.; et al., 89e:53071** *and* **Greene, Brian R.; et al., (89m:81001)**
Kitazoe, T. (*with* Nishimura, Haruhiko; Tabuse, M.) Orbifold compactifications of $D < 10$ dimensional fermionic heterotic string. **89h:81200**
Kobayashi, Ken-ichiro (*with* Sakamoto, Makoto) Orbifold-compactified models in torus-compactified string theories. **89k:81153**
Kogan, Ya. I. (*with* Khlopov, M. Yu.) Homotopically stable particles in the theory of superstrings. **89c:81135**
Kounnas, Costas Strings and superstrings in less than ten dimensions. **89e:81155**
— (*with* Quirós, M.; Zwirner, Fabio) A custodial symmetry for the cosmological constant in the effective theories of four-dimensional superstrings. **89f:81192**
— *see also* **Axenides, Minos; et al., 89c:81101** *and* **Kalara, S.; et al., 89j:83078**
Kripfganz, J. (*with* Perlt, H.) Cosmological impact of winding strings. **89e:83071**
Kubota, Hiroshi *see* **Abe, Mitsuko; et al., 89f:81149**
Kugo, Taichiro (*with* Kunitomo, Hiroshi; Suehiro, Kazuhiko) BRS invariance of string vertex on general ghost vacuum. **89c:81138**
Kumar, Alok^2 *see* **Chang, Darwin, 89g:81070**
Kunitomo, Hiroshi *see* **Kugo, Taichiro; et al., 89c:81138** *and* **Itoh, Katsumi; et al., 89h:81195**
Kuramoto, Tetsuji *see* **Hayashi, Masahito; et al., 89a:81131** *and* **89b:81193**
Labastida, J. M. F. (*with* Pernici, M.) $N = 4$ supersymmetric Lagrangian for self-dual fields. **89g:81105**
— (*with* Pernici, M.) Heterotic-string Lagrangean in the bosonic formulation. **89b:81203**
Lam, C. S. GSO projections for aperiodic strings. **89e:81158**
— (*with* Li, Da-Xi) Direct compactification of heterotic strings from 26 to 4 dimensions via T^{22}/G. **89i:81118**
Latorre, José I. Sp(2) BRST invariant quantization of strings: the harmonic gauge. **89g:81081**
Lauer, Jürgen (*with* Lüst, Dieter; Theisen, Stefan) Four-dimensional supergravity from four-dimensional strings. **89k:83077**
Lawrence, A. M. Stability of cosmological solutions to string theory effective actions. **89m:83043**
— *see also* **Jack, I.; et al., 89f:81184**
Lazarides, G. (*with* Shafi, Q.) Matter parities in three-generation superstring models. **89j:81196**
— (*with* Shafi, Q.) Freely acting Z_3 symmetries of a Yau manifold and three-generation superstring models. **89m:83087**
Lechner, K. *see* **Bonora, L.; et al., 89c:83050**
Lerche, W. Elliptic index and superstring effective actions. **89k:81157**
Lerda, A. *see* **Di Vecchia, P.; et al., 89f:81170**
Li, Da-Xi One-loop finiteness of the string theory on the T^{22}/G manifold. (French summary) **89e:81160**
— String theory with three families of chiral fermions. **89h:81208**
— *see also* **Chang, Ngee-Pong, 89f:81250; Lam, C. S., 89i:81118** *and* **Chang, Ngee-Pong; et al., 89i:83055**
Li, Keke Global symmetries in maximal supergravities from compactified superstrings. **89c:81141**
Li, Miao Breaking of U(1) groups in exactly solvable Calabi-Yau compactifications. **89m:53137**
Lindström, U. (*with* Roček, M.) Bosonic and spinning Weyl-invariant rigid strings. **89b:81205**
— (*with* Theodoridis, Georgios) Weyl-invariant super p-branes. **89k:81159**
— *see also* **Fujikawa, Kazuo; et al., 89f:81176** *and* **Karlhede, A., 89j:83079**
Liu, Liao (*with* Huang, Chao Guang) Quantum cosmology in superstring theory—a toy model. **89e:83074**
Lorenz-Petzold, Dieter String-generated generalizations of the Nariai solution. **89d:83066**
— String-generated magnetic solutions of higher-dimensional gravity. **89c:83046**
Louis, Jan *see* **Garreis, Reiner; et al., 89f:81177** *and* **Cvetič, Mirjam; et al., 89j:83074**
Love, Alex *see* **Bailin, David; et al., 89a:81167** *and* **89d:83060**
Lu, Liang *see* **Gates, S. James, Jr.; et al., 89m:83094**
Luckock, Hugh (*with* Moss, Ian; Toms, David J.) Polyakov strings in background fields: wave functions and quantum cosmology. **89e:81115**
Lüst, Dieter Covariant fermionic and heterotic strings from the bosonic string. **89e:81161**
— *see also* **Lauer, Jürgen; et al., 89k:83077**
Lütken, C. A. (*with* Ross, Graham G.) Taxonomy of heterotic superconformal field theories. **89j:81200**
— *see also* **Candelas, P.; et al., 89g:53102**
Lynker, Monika (*with* Schimmrigk, Rolf) Heterotic string compactification on $N = 2$ superconformal theories with $c = 9$. **89h:81212**
Maeda, Kei-ichi Our universe as an attractor in a superstring model. **89e:83091**
— (*with* Turok, Neil) Finite-width corrections to the Nambu action for the Nielsen-Olesen string. **89h:81213**
Maharana, J. *see* **Das, Ashok; et al., 89f:83085**
Markushevich, D. G. (*with* Ol′shanetskiĭ, M. A.; Perelomov, A. M.) Description of a class of superstring compactifications related to semisimple Lie algebras. **89a:83061**
(Marnelius, R.) *see* **Unification of fundamental interactions, 89f:81005**
Martellini, M. *see* **Guadagnini, E.; et al., 89h:81192**
McArthur, I. N. Factorization of determinants in $(1, 0)$ supergravity. **89c:83052**
— An obstruction to factorization of determinants on super-Teichmüller parameters in $(1, 0)$ supergravity. **89f:81199**
McInnes, Brett Spontaneous splitting and internal isometries of superstring vacua. **89h:81215**
— Superstrings and holonomy groups of Kähler manifolds. **89h:53132**
Minahan, Joseph A. One-loop amplitudes on orbifolds and the renormalization of coupling constants. **89e:81164**
Mintchev, M. *see* **Guadagnini, E.; et al., 89h:81192**
Miron, Paul *see* **Aspinwall, P. S.; et al., 89e:53071** *and* **Greene, Brian R.; et al., (89m:81001)**
Mizrachi, Leah *see* **Ellis, Jonathan Richard; et al., 89f:81173**
Mohapatra, Pramoda K. Comments on possible new three-generation Calabi-Yau manifolds. **89m:83088**
— *see also* **Barr, S. M., 89k:83068**
Morozov, A. Yu. (*with* Ol′shanetskiĭ, M. A.) The partition function of a bosonic string compactified on an orbifold. **89d:81105**
Moshe, Moshe Covariant quantization of the superparticle action—zero mode of the Green and Schwarz superstring. **89f:81135**
Moss, Ian *see* **Luckock, Hugh; et al., 89e:81115**
Muhammad, Fuad *see* **Brooks, Roger; et al., 89f:83096**
Nanopoulos, D. V. *see* **Ellis, Jonathan Richard; et al., 89f:81259**
Narain, K. S. Asymmetric orbifolds. **89f:81201**
Nazarovskiĭ, E. A. (*with* Obukhov, Yu. N.) Dynamics of the geometry in a bosonic string model. (Russian) **89h:81220**
Nelson, Philip C. Holomorphic coordinates for supermoduli space. **89b:32027**
Neyzi, Fahrünisa *see* **Arik, M., 89f:81154**
Nielsen, N. K. *see* **Fujikawa, Kazuo; et al., 89f:81176**
Niemi, Antti J. *see* **Aratyn, Henrik; et al., 89a:81110** *and* **89a:81111**
van Nieuwenhuizen, P. *see* **Fujikawa, Kazuo; et al., 89f:81176**
Nilles, H. P. Tortured tori. **89k:81167**
— *see also* **Font, A.; et al., 89j:81179a; 89j:81179b; 89m:81139a** *and* **89m:81139b**
(Nilsson, Jan S.) *see* **Unification of fundamental interactions, 89f:81005**
Nima, Shuji *see* **Inoue, Kenzo**^{2}**; et al., 89j:81188**
Nishimura, Haruhiko *see* **Kitazoe, T.; et al., 89h:81200**
Nishimura, Kimihide *see* **Kanno, Hiroaki; et al., 89f:81132**
Nishino, Hitoshi Superstring effects on $D = 4$, $N = 1$ supergravity. **89j:83089**
— *see also* **Grisaru, Marcus T.; et al., 89k:81090**
Obukhov, Yu. N. *see* **Nazarovskiĭ, E. A., 89h:81220**
Oerter, Robert N. *see* **Gates, S. James, Jr.; et al., 89m:83094**
Olive, K. A. *see* **Ellis, Jonathan Richard; et al., 89f:81259** *and* **Kalara, S.; et al., 89j:83078**
Ol′shanetskiĭ, M. A. *see* **Markushevich, D. G.; et al., 89a:83061** *and* **Morozov, A. Yu., 89d:81105**
Ovrut, Burt A. Superstrings and the auxiliary field structure of supergravity. **89c:81156**
— *see also* **Garreis, Reiner; et al., 89f:81177** *and* **Cvetič, Mirjam; et al., 89j:83074**
Panigrahi, Prasanta K. *see* **Das, Ashok; et al., 89f:83085**
Pasquinucci, A. *see* **Cecotti, S.; et al., 89j:83072**
Pasti, P. *see* **Bonora, L.; et al., 89c:83050**
Pavšič, Matej Generalisation of the BDHP string action to membranes of any dimension in curved spacetime. **89h:81221**
Perelomov, A. M. *see* **Markushevich, D. G.; et al., 89a:83061**
Pérez-Mercader, Juan *see* **Chang, Ngee-Pong; et al., 89i:83055**
Periwal, Vipul *see* **Gross, David J., 89b:81192**
Perlt, H. *see* **Kripfganz, J., 89e:83071**
Pernici, M. *see* **Labastida, J. M. F., 89b:81203** *and* **89g:81105**
Peskin, Michael E. Introduction to string and superstring theory. II. **89e:81001b**
Pezzella, F. *see* **Clarizia, A., 89c:81109**
Pitkänen, Matti Juhani Topological geometrodynamics. (German summary) **89m:83089**
Pohlmeyer, K. (*with* Rehren, K.-H.) The invariant charges of the Nambu-Goto theory: their geometric origin and their completeness. **89h:81224**
Polyakov, A. M. Directions in string theory. (*see* **89f:81005**)
— (*with* Zamolodchikov, Aleksandr B.) Fractal structure of two-dimensional supergravity. **89k:81168**
Pope, C. N. (*with* Stelle, K. S.) The Witten index for the supermembrane. **89k:83073**
— *see also* **Bars, Itzhak; et al., 89b:81152; Bergshoeff, Eric; et al., 89f:83083; Duff, M. J.; et al., 89h:81179** *and* **Bars, Itzhak; et al., 89j:81158**
Porrati, Massimo *see* **Cecotti, S.; et al., 89j:83072** *and* **Ferrara, S., 89m:53132**
Quevedo, F. *see* **Font, A.; et al., 89j:81179a; 89j:81179b; 89m:81139a** *and* **89m:81139b**
Quirós, M. *see* **Kounnas, Costas; et al., 89f:81192**
Rabin, Jeffrey M. *see* **Atick, Joseph J.; et al., 89f:81156**
Ramachandran, R. Some aspects of string theories. **89b:81216**
Rehren, K.-H. *see* **Pohlmeyer, K., 89h:81224**
Restuccia, A. (*with* Taylor, John G.) Absence of divergences in type II and heterotic string multiloop amplitudes. **89c:81159**
Reuter, M. Consistent interaction for infinitely many massless spin-two fields by dimensional reduction. **89g:83047**
Roček, M. *see* **Lindström, U., 89b:81205; Fujikawa, Kazuo; et al., 89f:81176** *and* **Karlhede, A., 89k:81102**
Ross, Graham G. *see* **Lütken, C. A., 89j:81200**
Rusjan, Edmond (*with* Senjanović, Goran) Honest symmetries and complex structures of the three-generation superstring model. **89i:53057**
— (*with* Senjanović, Goran) A superstring model of four generations. **89k:14087**
Sakai, Norisuke *see* **Abe, Mitsuko; et al., 89f:81149**

Sakamoto, Makoto *see* **Inoue, Kenzo^2; et al., 89a:81134; Itoh, Katsumi; et al., 89h:81195** *and* **Kobayashi, Ken-ichiro, 89k:81153**
Salam, A. *see* **Bergshoeff, Eric; et al., 89d:83061** *and* **89j:81136**
Salomonson, Per (*with* Skagerstam, Bo-Sture; Stern, Allen Bruce) General coupling of strings to the low-energy effective theory. **89h:83040**
– *see also* **Unification of fundamental interactions, 89f:81005**
Sánchez, Norma *see* **de Vega, H. J., 89a:81099; 89k:81111** *and* **89k:81112**
Sato, Hikaru Classification of symmetry breaking by Wilson lines on the Z orbifold. **89a:81149**
– Strings on an orbifold with background gauge fields. **89i:81128**
Sawhill, Bruce K. Nontrivial ground state of the closed bosonic membrane. **89b:81163**
– Extended objects in curved space-time. **89e:81121**
Schimmrigk, Rolf A new construction of a three-generation Calabi-Yau manifold. **89e:53072**
– *see also* **Candelas, P.; et al., 89g:53102** *and* **Lynker, Monika, 89h:81212**
Schnitzer, Howard J. *see* **Karabali, Dimitra, 89f:81188**
Schwarz, John H. Superstring unification. (*see* **89b:83007**)
– The future of string theory. (*see* **89f:81005**)
– *see also* **Green, Michael B.; et al., 89f:81001a** *and* **89f:81001b**
Sciuto, S. *see* **Di Vecchia, P.; et al., 89f:81170**
Seiberg, Nathan *see* **Dine, Michael, 89c:81113** *and* **89f:81171**
Sen, Ashoke *see* **Atick, Joseph J.; et al., 89f:81156**
Senda, Ikuo (*with* Sugamoto, Akio) An orbifold divided by a multi-element discrete symmetry. **89j:81220**
Senjanović, Goran *see* **Rusjan, Edmond, 89i:53057** *and* **89k:14087**
Sevrin, A. *see* **Spindel, Ph.; et al., 89m:53138**
Sezgin, E. *see* **Bars, Itzhak; et al., 89b:81152; Bergshoeff, Eric; et al., 89d:83061; 89f:83083; Duff, M. J.; et al., 89h:81179; Bergshoeff, Eric; et al., 89j:81136** *and* **Bars, Itzhak; et al., 89j:81158**
Shafi, Q. *see* **Lazarides, G., 89j:81196** *and* **89m:83087**
Shaw, William T. Twistors and strings. **89i:53058**
Shigemoto, Kazuyasu *see* **Hayashi, Masahito; et al., 89a:81131** *and* **89b:81193**
Siegel, Warren *see* **Gates, S. James, Jr., 89k:81142**
Skagerstam, Bo-Sture *see* **Salomonson, Per; et al., 89h:83040** *and* **Unification of fundamental interactions, 89f:81005**
Sorokin, D. P. (*with* Tkach, V. I.) Spontaneous compactification of subspaces in Kaluza-Klein theories. **89f:83090**
Spindel, Ph. (*with* Sevrin, A.; Troost, W.; Van Proeyen, A.) Extended supersymmetric σ-models on group manifolds. I. The complex structures. **89m:53138**
Stelle, K. S. (*with* Townsend, P. K.) Are 2-branes better than 1? **89m:81164**
– *see also* **Duff, M. J.; et al., 89h:81179** *and* **Pope, C. N., 89k:83073**
Stern, Allen Bruce *see* **Salomonson, Per; et al., 89h:83040**
Suehiro, Kazuhiko *see* **Kugo, Taichiro; et al., 89c:81138**
Sugamoto, Akio *see* **Senda, Ikuo, 89j:81220**
Tabuse, M. *see* **Kitazoe, T.; et al., 89h:81200**
Takano, Hiroshi *see* **Inoue, Kenzo^2; et al., 89a:81134** *and* **89j:81188**
Tamekiyo, Akira *see* **Kanno, Hiroaki; et al., 89f:81132**
Tanii, Yoshiaki *see* **Bergshoeff, Eric; et al., 89d:83061** *and* **89j:81136**
Taylor, John G. *see* **Restuccia, A., 89c:81159**
Taylor, T. R. Model building on asymmetric Z_3 orbifolds: nonsupersymmetric models. **89h:81237**
Tchrakian, D. H. *see* **Dolan, B. P., 89i:81087**
(Teitelboim, Claudio) *see* **Brink, Lars, 89i:81001**
Theisen, Stefan *see* **Lauer, Jürgen; et al., 89k:83077**
Theodoridis, Georgios *see* **Lindström, Ulf, 89k:81159**
Thomas, Steven *see* **Bailin, David; et al., 89a:81167** *and* **89d:83060**
Tiemblo, A. *see* **Barbero, F.; et al., 89m:81089**
Tkach, V. I. *see* **Sorokin, D. P., 89f:83090**
Toms, David J. *see* **Luckock, Hugh; et al., 89e:81115**
Tonin, M. *see* **Bonora, L.; et al., 89c:83050**
Townsend, P. K. Supersymmetric extended solitons. **89f:83091**
– *see also* **Achúcarro, A.; et al., 89f:83082** *and* **Stelle, K. S., 89m:81164**
Tresguerres, R. *see* **Barbero, F.; et al., 89m:81089**
Troost, W. *see* **Spindel, Ph.; et al., 89m:53138**
Tseytlin, A. A. *see* **Andreev, O. D., 89f:81151**
Turok, Neil *see* **Maeda, Kei-ichi, 89h:81213**
Vafa, Cumrun *see* **Freed, Daniel S., 89h:58197**
Van Proeyen, A. *see* **Spindel, Ph.; et al., 89m:53138**
de Vega, H. J. (*with* Sánchez, Norma) A new approach to string quantization in curved spacetimes. **89a:81099**
– (*with* Sánchez, Norma) Quantum dynamics of strings in black hole space times. **89k:81111**
– (*with* Sánchez, Norma) The scattering of strings by a black hole. **89k:81112**
Villasante, M. *see* **Cecotti, S.; et al., 89f:83097**
Viswanathan, K. S. (*with* Zhou, Xiaoan) H-invariance, imbedding ghost, and strings with extrinsic curvature. **89e:81175**
Wadia, Spenta R. String loop calculation of 3-point amplitudes on orbifolds. **89c:81173**
Walton, Mark A. Heterotic string on the simplest Calabi-Yau manifold and its orbifold limits. **89g:81106**
West, Peter A review of duality, string vertices, overlap identities and the group-theoretic approach to string theory. **89j:81228**
Wheeler, James T. 26-dimensional string from 4-dimensional geometry. **89i:83061**
Wiltshire, D. L. *see* **Achúcarro, A.; et al., 89f:83082**
Witten, Edward Holomorphic curves on manifolds of SU(3) holonomy. (*see* **89m:81001**)
– *see also* **Green, Michael B.; et al., 89f:81001a** *and* **89f:81001b**
Xu, Rui-Ming *see* **Grisaru, Marcus T., 89f:81179**
Yang, Li (*with* Zhu, Yu Jie) OSp(1, 1|2) and a new BRST quantization of the free open Ramond string. **89h:81241**
Yau, S.-T. *see* **Yüan, Hsi Shih, 89c:53031** *and* **Mathematical aspects of string theory, 89m:81001**
Yu, Yue *see* **Chen, Wei; et al., 89h:81172**
Yüan, Hsi Shih (*with* Yau, S.-T.) On Ricci flat 3-fold. **89c:53031**
Zaikov, R. P. Self-duality in the theory of the bosonic p-branes. **89h:81243**
Zamolodchikov, Aleksandr B. *see* **Polyakov, A. M., 89k:81168**
Zanon, D. *see* **Grisaru, Marcus T.; et al., 89k:81090**
Zha, Chao Zheng (*with* Dai, Jian Hui) Torsion constraints in superspace and the geometry of superstrings propagating in a supergravity background. (Chinese. English summary) **89h:83041**
Zhao, Wei Dong *see* **Huang, Chao Shang; et al., 89f:81182**
Zhao, Zhi Yong *see* **Huang, Chao Shang; et al., 89f:81182**
Zheltukhin, A. A. On a para-Grassmann extension of the Neveu-Schwarz-Ramond algebra. (Russian. English summary) **89c:81176**
Zhou, Xiaoan *see* **Viswanathan, K. S., 89e:81175**
Zhu, Yu Jie *see* **Yang, Li, 89h:81241**
Zwirner, Fabio *see* **Kounnas, Costas; et al., 89f:81192**

Items listed otherwise than by author

Conference:
  Mathematical aspects of string theory ★ Mathematical aspects of string theory. **89m:81001**
Marstrand ★ Unification of fundamental interactions. **89f:81005**
Mathematical aspects of string theory ★ Mathematical aspects of string theory. **89m:81001**
San Diego, Calif. ★ Mathematical aspects of string theory. **89m:81001**
Symposium:
  Unification of Fundamental Interactions ★ Unification of fundamental interactions. **89f:81005**
Unification of fundamental interactions ★ Unification of fundamental interactions. **89f:81005**

83E50 Supergravity {For supersymmetry, see 81G20.}

Abe, Mitsuo Another supersymmetric extension of local Lorentz symmetry in the vierbein formalism of Einstein gravity. **89m:83090**
Aichelburg, P. C. (*with* Embacher, F.) Supergravity solitons. I. General framework. **89g:83051a**
— (*with* Embacher, F.) Supergravity solitons. II. The free case. **89g:83051b**
Aref'eva, I. Ya. (*with* Volovich, I. V.; Dragović, B. G.) Spontaneous reduction in multidimensional ($D=10, 11$) theories of supergravity with arbitrary signature. (Russian. English summary) **89c:83049**
Barrow, John D. (*with* Deruelle, Nathalie) The confrontation of no-scale supergravity with cosmology. **89b:83091**
Bellucci, Stefano (*with* Gates, S. James, Jr.) $D=10$, $N=1$ superspace supergravity and the Lorentz Chern-Simons form. **89e:83077**
— On-shell equivalence of light-like integrability and canonical constraints for $D=10$, $N=1$ supergravity. **89m:83091**
Bjorkman, J. E. (*with* Tosa, Y.) Anomaly-free supergravity theories remain anomaly-free after dimensional reduction. **89b:83092**
Bonora, L. (*with* Bregola, M.; Lechner, K.; Pasti, P.; Tonin, M.) Anomaly-free supergravity and super-Yang-Mills theories in ten dimensions. **89c:83050**
Bregola, M. *see* **Bonora, L.; et al., 89c:83050**
Brooks, Roger (*with* Gates, S. James, Jr.) Manifestly supersymmetric gauge fixing in $D=2$ supergravity theories. **89e:83078**
— (*with* Muhammad, Fuad; Gates, S. James, Jr.) Extended $D=2$ supergravity theories and their lower superspace realisations. **89f:83096**
Buckingham, Simon Weil triviality and anomalies in two-dimensional supergravity. **89k:83076**
Bukhbinder, I. L. (*with* Kuzenko, S. M.) Superfields of matter in an external field of $N=1$ supergravity. Green functions, effective action, superconformal anomalies. (Russian) (*see* **89d:81001**)
— (*with* Kuzenko, S. M.) Quantization of classically equivalent theories in superspace of simple supergravity, and quantum equivalence. **89a:83066**
— (*with* Odintsov, S. D.) Effective action in multidimensional supergravity theories and the induction of Einstein gravity. **89b:83093**
— (*with* Odintsov, S. D.) Effective action in multi-dimensional supergravities and induced Einstein gravity. **89i:83062**
— (*with* Kuzenko, S. M.) Nonlocal action for supertrace anomalies in superspace of $N=1$ supergravity. **89e:83079**
Bytsenko, A. A. *see* **Goncharov, Yu. P., 89e:83083**
Cadoni, M. $N=1$ supergravity models based on noncompact Hermitian symmetric coset spaces. **89g:83052**
Casher, A. (*with* Polarski, D.) On the construction of an SU(8) charge in $N=8$ supergravity. **89g:83053**
Castagnino, Mario (*with* Domenech, G.; Levinas, M. L.; Umerez, N.) Supersymmetric couplings and trajectories in $N=1$ supergravity. **89j:83086**
Castellani, L. Chiral $D=10$, $N=2$ supergravity on the group manifold. I. Free differential algebra and solution of Bianchi identities. **89e:83080**
Cecotti, S. (*with* Ferrara, S.; Villasante, M.) Linear multiplets and super Chern-Simons forms in 4D supergravity. **89f:83097**
— (*with* Ferrara, S.; Porrati, Massimo; Sabharwal, S.) New minimal higher derivative supergravity coupled to matter. **89e:83081**
Chau, Ling-Lie Linear systems and conservation laws of gravitational fields in four plus extended superspace. **89d:83071**
Dai, Jian Hui *see* **Zha, Chao Zheng, 89h:83041**
D'Auria, R. (*with* Fré, P.) Duality in superspace and anomaly free supergravity: some remarks. **89f:83098**
— (*with* Fré, P.) Minimal 10D anomaly-free supergravity and the effective superstring theory. **89g:83054**
Deruelle, Nathalie *see* **Barrow, John D., 89b:83091**
Domenech, G. (*with* Levinas, M. L.; Umerez, N.) Low energy effects in supergravity. **89e:83082**

— *see also* **Castagnino, Mario; et al., 89j:83086**
Dragović, B. G. *see* **Aref'eva, I. Ya.; et al., 89c:83049**
Duff, M. J. $E_8 \times \mathrm{SO}(16)$ symmetry of $d = 11$ supergravity? **89h:83037**
— Supermembranes: the first fifteen weeks. **89d:83072**
Embacher, F. *see* **Aichelburg, P. C., 89g:83051a** *and* **89g:83051b**
Fedorov, F. I. *see* **Kuvshinov, V. I., (89d:81001)**
Ferrara, S. Scalar potentials in extended supergravities. **89h:83038**
— Higher curvature supergravity and superstrings. (*see* **89f:81005**)
— Supergravities and superstrings. **89m:83092**
— (*with* Sabharwal, S.; Villasante, M.) Curvatures and Gauss-Bonnet theorem in new minimal supergravity. **89f:83099**
— *see also* **Cecotti, S.; et al., 89e:83081** *and* **89f:83097**
Foussats, A. (*with* Zandron, O.) Canonical covariant formalism for gravity and supergravity in more than four dimensions. **89f:83100**
— (*with* Zandron, O.) Covariant Hamiltonian formalism for supersymmetric Yang-Mills theory coupled to supergravity. **89m:83093**
Fré, P. *see* **D'Auria, R., 89f:83098** *and* **89g:83054**
Gal'perin, A. S. (*with* Ivanov, Evgeniĭ Alekseevich^2; Ogievetskiĭ, V. I.) Superspace actions and duality transformations for $N = 2$ tensor multiplets. (*see* **89f:81005**)
— (*with* Nguyen Anh Ky; Sokatchev, E. S.) $N = 2$ supergravity in superspace: solution to the constraints and the invariant action. **89a:83067**
— (*with* Ivanov, Evgeniĭ Alekseevich^2; Ogievetskiĭ, V. I.; Sokatchev, E. S.) $N = 2$ supergravity in superspace: different versions and matter couplings. **89a:83068**
Gates, S. James, Jr. (*with* Lu, Liang; Oerter, Robert N.) Simplified SU(2) spinning string superspace supergravity. **89m:83094**
— *see also* **Bellucci, Stefano, 89e:83077; Brooks, Roger, 89e:83078** *and* **89f:83096**
Giddings, Steven B. (*with* Nelson, Philip C.) Torsion constraints and super Riemann surfaces. **89d:83073**
Gieres, François (*with* McCabe, John Francis) 2d SUGRA: supersymmetric form of the effective action leading to the conformal anomaly. **89c:83051**
Girardello, L. $N = 1$ supergravity from extended supergravity and from superstring theories. **89b:83094**
Goncharov, Yu. P. (*with* Bytsenko, A. A.) The inflationary universe in the gauged $N = 8$ supergravity induced from a superstring. **89e:83083**
Ivanov, Evgeniĭ Alekseevich^2 *see* **Gal'perin, A. S.; et al., 89a:83068** *and* **(89f:81005)**
Jacobson, Ted Supergravity. (*see* **89m:83003**)
— New variables for canonical supergravity. **89j:83087**
Kakazu, Kiyotaka (*with* Matsumoto, Shuichi) Supergravity on principal fibre bundle. **89e:83084**
Kavalov, An. R. (*with* Mkrtchyan, R. L.) Lagrangian for the self-duality equation and $d = 10$, $N = 2\mathrm{b}$ supergravity. **89d:83074**
Ketov, S. V. New $N = 2$ matter couplings in superspace. **89f:83101**
Kim, Chang-Ho (*with* l'Yi, W. S.; Kim, Kee Yong; Kim, Yong Duk; Park, Young-Jai) SU(2/2) and five-dimensional supergravities. **89i:83063**
Kim, Kee Yong *see* **Kim, Chang-Ho; et al., 89i:83063**
Kim, Yong Duk *see* **Kim, Chang-Ho; et al., 89i:83063**
Konishi, Kenichi (*with* Magnoli, N.; Panagopoulos, H.) Spontaneous breaking of local supersymmetry by gravitational instantons. **89j:83088**
Kuvshinov, V. I. (*with* Fedorov, F. I.) Use of Noether identities for the construction of supergravity models. (Russian) (*see* **89d:81001**)
Kuzenko, S. M. *see* **Bukhbinder, I. L., 89a:83066; 89e:83079** *and* **(89d:81001)**
Lauer, Jürgen (*with* Lüst, Dieter; Theisen, Stefan) Four-dimensional supergravity from four-dimensional strings. **89k:83077**
Lechner, K. *see* **Bonora, L.; et al., 89c:83050**
Levinas, M. L. *see* **Domenech, G.; et al., 89e:83082** *and* **Castagnino, Mario; et al., 89j:83086**
Lorenz-Petzold, Dieter Nonsingular anisotropic cosmologies of no-scale supergravity. **89i:83064**
Lu, Liang *see* **Gates, S. James, Jr.; et al., 89m:83094**
Lüst, Dieter *see* **Lauer, Jürgen; et al., 89k:83077**
Macías, A. (*with* Obregón, O.; Ryan, Michael P., Jr.) Quantum (super) cosmological Bianchi I model. **89d:83075**
— (*with* Obregón, O.) (Super) cosmological solution for the Kasner model. **89k:83078**
Magnoli, N. *see* **Konishi, Kenichi; et al., 89j:83088**
Mahato, P. $N = 1$ dilatation supergravity. **89f:83102**
Matsumoto, Shuichi *see* **Kakazu, Kiyotaka, 89e:83084**
McArthur, I. N. Factorization of determinants in $(1,0)$ supergravity. **89c:83052**
McCabe, John Francis *see* **Gieres, François, 89c:83051**
Merkulov, S. A. Local supertwistors. **89k:83079**
— $N = 2$ local supertwistors. **89m:83095**
Mkrtchyan, R. L. *see* **Kavalov, An. R., 89d:83074**
Muhammad, Fuad *see* **Brooks, Roger; et al., 89f:83096**
Nelson, Philip C. *see* **Giddings, Steven B., 89d:83073**
Nguyen Anh Ky *see* **Gal'perin, A. S.; et al., 89a:83067**
Nicolai, H. The integrability of $N = 16$ supergravity. (*see* **89j:00012**)
Nishino, Hitoshi Superstring effects on $D = 4$, $N = 1$ supergravity. **89j:83089**
Obregón, O. *see* **Macías, A.; et al., 89d:83075** *and* **89k:83078**
Odintsov, S. D. Effective potential in $N = 1$ supergravity de Sitter space. **89j:83090**
— *see also* **Bukhbinder, I. L., 89b:83093** *and* **89i:83062**
Oerter, Robert N. *see* **Gates, S. James, Jr.; et al., 89m:83094**
Ogievetskiĭ, V. I. *see* **Gal'perin, A. S.; et al., 89a:83068** *and* **(89f:81005)**
Pak, D. G. *see* **Zupnik, B. M., (89d:81001)**
Panagopoulos, H. *see* **Konishi, Kenichi; et al., 89j:83088**
Park, Young-Jai *see* **Kim, Chang-Ho; et al., 89i:83063**
Pasti, P. *see* **Bonora, L.; et al., 89c:83050**
Perret, Robert E. C. Geometric $N = 4$ supergravity. **89f:83103**
— Geometric structure of $N = 4$ matter-coupled supergravity. **89f:83104**
Pletnëv, N. G. (*with* Serebryakov, V. S.) Covariant formalism of reductions from superconformal gauge theories to Poincaré supergravities. (Russian. English summary) **89h:83039**
Polarski, D. *see* **Casher, A., 89g:83053**
Popov, A. D. Spontaneous compactification of $d = 11$ supergravity due to Rarita-Schwinger fields. (Russian. English summary) **89d:83076**
— Chiral fermions in $N = 2$, $d = 10$ supergravity with additional time dimensions. **89f:83105**
— Chiral fermions in $d = 11$ supergravity with additional time-like dimensions. **89k:83080**
Porrati, Massimo *see* **Cecotti, S.; et al., 89e:83081**
Rocha Filho, T. M. (*with* Vianna, J. D. M.) Jordan algebra and field theory. **89b:83095**
Ryan, Michael P., Jr. *see* **Macías, A.; et al., 89d:83075**
Sabharwal, S. *see* **Cecotti, S.; et al., 89e:83081** *and* **Ferrara, S.; et al., 89f:83099**
Salomonson, Per (*with* Skagerstam, Bo-Sture; Stern, Allen Bruce) General coupling of strings to the low-energy effective theory. **89h:83040**
Serebryakov, V. S. *see* **Pletnëv, N. G., 89h:83039**
Skagerstam, Bo-Sture *see* **Salomonson, Per; et al., 89h:83040**
Sokatchev, E. S. Off-shell six-dimensional supergravity in harmonic superspace. **89m:83096**
— *see also* **Gal'perin, A. S.; et al., 89a:83067** *and* **89a:83068**
Sorokin, D. P. *see* **Volkov, D. V.; et al., (89d:81001)**
Stern, Allen Bruce *see* **Salomonson, Per; et al., 89h:83040**
Theisen, Stefan *see* **Lauer, Jürgen; et al., 89k:83077**
Tkach, V. I. *see* **Volkov, D. V.; et al., (89d:81001)**
Tonin, M. *see* **Bonora, L.; et al., 89c:83050**
Tosa, Y. *see* **Bjorkman, J. E., 89b:83092**
Townsend, P. K. Anti-de Sitter supergravities. **89f:83106**
Umerez, N. *see* **Domenech, G.; et al., 89e:83082** *and* **Castagnino, Mario; et al., 89j:83086**
Vandyck, M. A. J. On the problem of spacetime symmetries in the theory of supergravity. **89c:83053**
Vashakidze, Sh. I. ★ Equations of motion for the new $D = 10$, $N = 1$, supergravity-Yang-Mills theory. **89f:83107**
Vasilevich, D. V. Solution of $d = 10$ supergravity with a transitive internal symmetry group. (Russian. English summary) **89f:83108**
Vianna, J. D. M. *see* **Rocha Filho, T. M., 89b:83095**
Villasante, M. *see* **Cecotti, S.; et al., 89f:83097** *and* **Ferrara, S.; et al., 89f:83099**
Volkov, D. V. (*with* Sorokin, D. P.; Tkach, V. I.) Spontaneous compactification of spaces of additional dimensions in supergravities with more than four dimensions. (Russian) (*see* **89d:81001**)
Volovich, I. V. *see* **Aref'eva, I. Ya.; et al., 89c:83049**
Wess, Julius Kähler-Weyl invariance and $N = 1$ supergravity. **89f:83109**
l'Yi, W. S. *see* **Kim, Chang-Ho; et al., 89i:83063**
Zandron, O. *see* **Foussats, A., 89f:83100** *and* **89m:83093**
Zha, Chao Zheng (*with* Dai, Jian Hui) Torsion constraints in superspace and the geometry of superstrings propagating in a supergravity background. (Chinese. English summary) **89h:83041**
Zupnik, B. M. Extended conformal supergravity in chiral superspace. **89m:83097**
— (*with* Pak, D. G.) Invariant background quantization of superfield $N = 1$ supergravity. (Russian) (*see* **89d:81001**)

Items with secondary classifications in 83E50

Abecasis, C. (*with* Foussats, A.; Zandron, O.) Diffeomorphically nonequivalent classes of solutions in gauge theories on group manifolds. (Italian and Russian summaries) **89a:53084**
— (*with* Foussats, A.; Zandron, O.) Diffeomorphically nonequivalent classes of solutions in gauge theories on group manifolds. **89m:53128**
Achúcarro, A. (*with* Evans, J. M.; Townsend, P. K.; Wiltshire, D. L.) Super p-branes. **89f:83082**
Aichelburg, P. C. (*with* Embacher, F.) Lightlike contractions in curved spacetime. **89d:83045**
Almorox, Antonio López Graded manifolds and supergauge theories. **89c:58012**
Aragone, C. (*with* Deser, S.; Ferrara, S.) Anti-Higgs effect in two-dimensional gauge theories. **89b:81113**
Bagger, J. A. (*with* Gal'perin, A. S.; Ivanov, Evgeniĭ Alekseevich^2; Ogievetskiĭ, V. I.) Gauging $N = 2$ sigma models in harmonic superspace. **89h:81097**
Bando, Masako (*with* Kugo, Taichiro; Yamawaki, Koichi) Nonlinear realization and hidden local symmetries. **89d:81121**
Batchelor, Marjorie (*with* Bryant, Peter R.) Graded Riemann surfaces. **89b:58022**
Bergshoeff, Eric (*with* Duff, M. J.; Pope, C. N.; Sezgin, E.) Supersymmetric supermembrane vacua and singletons. **89f:83083**
— (*with* Salam, A.; Sezgin, E.; Tanii, Yoshiaki) Singletons, higher spin massless states and the supermembrane. **89d:83061**
Biesiada, Marek *see* **Szydłowski, Marek; et al., 89a:83065**
Bonora, L. (*with* Pasti, P.; Tonin, M.) Chiral anomalies in higher-dimensional supersymmetric theories. **89f:81093**
Bruzzo, Ugo Lagrangian gauge theories on supermanifolds. **89b:58037**
— (*with* Cianci, Roberto) Mathematical foundations of supermanifold field theories: action functional and reduction to spacetime. (Italian summary) **89g:58011**
Bryant, Peter R. *see* **Batchelor, Marjorie, 89b:58022**
Bukhbinder, I. L. (*with* Odintsov, S. D.) Effective action in multidimensional (super)gravities. **89j:83071**
Cahen, Michel (*with* Gutt, S.; Lemaire, L.; Spindel, Ph.) Killing spinors. **89d:53122**
Castellani, L. SUPERGRAV—a REDUCE package for Bose-Fermi exterior calculus and the construction of supergravity actions. **89k:83001**
Cecotti, S. (*with* Ferrara, S.; Girardello, L.) Gravitational supervertices in $n = 1$, 4D superstrings. **89a:81118**
— (*with* Ferrara, S.; Girardello, L.) Hidden noncompact symmetries in string theory. **89k:81134**
Chang, Ngee-Pong (*with* León, Juan; Pérez-Mercader, Juan) $\mathrm{STr}M^2$ sum rule for a general class of Kähler potentials. **89e:83068**
Charap, J. M. (*with* Henneaux, M.; Nelson, J. E.) Explicit form of the constraint algebra in tetrad gravity. **89k:83049**
Cianci, Roberto *see* **Bruzzo, Ugo, 89g:58011**
Delbourgo, R. (*with* Zhang, R. B.) Grassmannian Kaluza-Klein theory and the standard model. **89k:83069**

Demichev, A. P. (*with* Rodionov, A. Ya.) Solutions of the Freund-Rubin type for different compactifications of eleven-dimensional space. **89a:83057**
Deser, S. The ubiquitous Bel-Robinson tensor. **89e:53109**
— *see also* **Aragone, C.; et al., 89b:81113**
Duff, M. J. Supergravity, Kaluza-Klein and superstrings. **89b:83078**
— *see also* **Bergshoeff, Eric; et al., 89f:83083**
Embacher, F. *see* **Aichelburg, P. C., 89d:83045**
Evans, J. M. *see* **Achúcarro, A.; et al., 89f:83082**
Ferrara, S. Supertheories. **89m:81137**
— *see also* **Cecotti, S.; et al., 89a:81118; Aragone, C.; et al., 89b:81113** *and* **Cecotti, S.; et al., 89k:81134**
Fisher, A. W. Consistency condition calculations of supersymmetry anomalies. **89a:81071**
Foussats, A. *see* **Abecasis, C.; et al., 89a:53084** *and* **89m:53128**
Gal′perin, A. S. (*with* Ivanov, Evgeniĭ Alekseevich^2; Ogievetskiĭ, V. I.; Sokatchev, E. S.) Harmonic superspace and extended supersymmetries. (Russian) (*see* **89d:81001**)
— (*with* Ivanov, Evgeniĭ Alekseevich^2; Ogievetskiĭ, V. I.; Sokatchev, E. S.) Conformal invariance in harmonic superspace. **89m:81096**
— (*with* Ivanov, Evgeniĭ Alekseevich^2; Ogievetskiĭ, V. I.; Sokatchev, E. S.) Gauge field geometry from complex and harmonic analyticities. I. Kähler and self-dual Yang-Mills cases. **89i:53053**
— (*with* Ivanov, Evgeniĭ Alekseevich^2; Ogievetskiĭ, V. I.; Sokatchev, E. S.) Gauge field geometry from complex and harmonic analyticities. II. Hyper-Kähler case. **89i:53054**
— *see also* **Bagger, J. A.; et al., 89h:81097**
Gibbons, Gary (*with* Maeda, Kei-ichi) Black holes and membranes in higher-dimensional theories with dilaton fields. **89d:83064**
Girardello, L. *see* **Cecotti, S.; et al., 89a:81118** *and* **89k:81134**
Girardi, G. (*with* Grimm, Richard) Chern-Simons forms and four-dimensional $N = 1$ superspace geometry. **89c:81124**
Grasso, Massimo (*with* Teofilatto, Paolo) Gauge theories, flat superforms and reduction of super fiber bundles. **89k:53070**
Grimm, Richard *see* **Girardi, G., 89c:81124**
Grisaru, Marcus T. (*with* Nishino, Hitoshi; Zanon, D.) β-function approach to the Green-Schwarz superstring. **89k:81090**
— (*with* Nishino, Hitoshi; Zanon, D.) β-functions for the Green-Schwarz superstring. **89k:81145**
— *see also* **de Wit, B., 89k:81083**
Gutt, S. *see* **Cahen, Michel; et al., 89d:53122**
Hasiewicz, Zbigniew Supersymmetry algebras: extensions of orthogonal Lie algebras. **89h:17040**
Henneaux, M. *see* **Charap, J. M.; et al., 89k:83049**
Ikemori, Hitoshi Superfield formulation of relativistic superparticle. **89b:81074**
Ivanov, Evgeniĭ Alekseevich^2 *see* **Bagger, J. A.; et al., 89h:81097; Gal′perin, A. S.; et al., 89i:53053; 89i:53054; 89m:81096** *and* (**89d:81001**)
Jarvis, P. D. Berezin integration and dimensional reduction. **89k:58044**
Kallosh, R. Strings and superspace. (*see* **89f:81005**)
Karlhede, A. (*with* Lindström, U.) Super-Weyl-invariant spinning p-branes. **89j:83079**
— (*with* Roček, M.) Topological quantum field theory and $N = 2$ conformal supergravity. **89k:81102**
Ketov, S. V. Supersymmetric σ-models with torsion in supergravity background and critical dimensions for string theories. **89a:81094**
— (*with* Lokhvitskiĭ, B. B.) Some generalisations of $N = 2$ Yang-Mills matter couplings. **89c:81075**
— (*with* Lokhvitskiĭ, B. B.) $N = 4$ irreducible scalar superfields. **89m:81148**
— Anomalies in 6-dimensional gauge theories. **89j:81143**
Kugo, Taichiro *see* **Bando, Masako; et al., 89d:81121**
Labastida, J. M. F. (*with* Pernici, M.) $N = 4$ supersymmetric Lagrangian for self-dual fields. **89g:81105**
Lemaire, L. *see* **Cahen, Michel; et al., 89d:53122**
León, Juan *see* **Chang, Ngee-Pong; et al., 89e:83068**
Lhallabi, T. (*with* Saidi, E. H.) The (4, 0) and (4, 4) supersymmetric nonlinear σ-models in the $D = 2$ harmonic superspace. **89a:81096**
Li, Keke Global symmetries in maximal supergravities from compactified superstrings. **89c:81141**
Lindström, U. *see* **Karlhede, A., 89j:83079**
Lokhvitskiĭ, B. B. *see* **Ketov, S. V., 89c:81075** *and* **89m:81148**
Macías, A. (*with* Obregón, O.; Ryan, Michael P., Jr.) Quantum cosmology: the supersymmetric square root. **89a:83038**
Maeda, Kei-ichi *see* **Gibbons, Gary, 89d:83064**
McArthur, I. N. An obstruction to factorization of determinants on super-Teichmüller parameters in (1, 0) supergravity. **89f:81199**
Nelson, J. E. *see* **Charap, J. M.; et al., 89k:83049**
Nishino, Hitoshi *see* **Grisaru, Marcus T.; et al., 89k:81090** *and* **89k:81145**
Nouri-Moghadam, M. (*with* Smith, C. R. R.; Taylor, John G.) Reparametrisation-invariant closed string field theory: foliation structure and physical spectrum. **89b:81212**
Obregón, O. *see* **Macías, A.; et al., 89a:83038**
Odintsov, S. D. Casimir effect in multidimensional quantum supergravities and supersymmetry breaking. **89f:81136**
— Casimir effect in multidimensional quantum supergravities and supersymmetry breaking. **89i:83057**
— *see also* **Bukhbinder, I. L., 89j:83071**
Ogievetskiĭ, V. I. *see* **Bagger, J. A.; et al., 89h:81097; Gal′perin, A. S.; et al., 89i:53053; 89i:53054; 89m:81096** *and* (**89d:81001**)
Olivier, Dominique (*with* Valent, G.) Hyper-Kähler generalization of Taub-NUT from harmonic superspace. **89a:53087**
Ovrut, Burt A. Superstrings and the auxiliary field structure of supergravity. **89c:81156**
Pak, D. G. *see* **Zupnik, B. M., 89j:81120**
Pasti, P. *see* **Bonora, L.; et al., 89f:81093**
Pérez-Mercader, Juan *see* **Chang, Ngee-Pong; et al., 89e:83068**
Pernici, M. *see* **Labastida, J. M. F., 89g:81105**
Polyakov, A. M. (*with* Zamolodchikov, Aleksandr B.) Fractal structure of two-dimensional supergravity. **89k:81168**
Pope, C. N. *see* **Bergshoeff, Eric; et al., 89f:83083**
Roček, M. *see* **Karlhede, A., 89k:81102**
Rodionov, A. Ya. *see* **Demichev, A. P., 89a:83057**
Ryan, Michael P., Jr. *see* **Macías, A.; et al., 89a:83038**
Saidi, E. H. *see* **Lhallabi, T., 89a:81096**
Salam, A. *see* **Bergshoeff, Eric; et al., 89d:83061**
Sezgin, E. *see* **Bergshoeff, Eric; et al., 89d:83061** *and* **89f:83083**
Smith, C. R. R. *see* **Nouri-Moghadam, M.; et al., 89b:81212**
Sokatchev, E. S. *see* **Gal′perin, A. S.; et al., 89i:53053; 89i:53054; 89m:81096** *and* (**89d:81001**)
Sorokin, D. P. (*with* Tkach, V. I.) Spontaneous compactification of subspaces in Kaluza-Klein theories. **89f:83090**
Spindel, Ph. *see* **Cahen, Michel; et al., 89d:53122**
Srivastava, Prem P. ★ Supersymmetry, superfields and supergravity. **89b:81004**
Stelle, K. S. (*with* Townsend, P. K.) Are 2-branes better than 1? **89m:81164**
Szczęsny, Jerzy *see* **Szydłowski, Marek; et al., 89a:83065**
Szydłowski, Marek (*with* Szczęsny, Jerzy; Biesiada, Marek) Is the space-time dimension 11 distinguished in cosmology? **89a:83065**
Tanii, Yoshiaki *see* **Bergshoeff, Eric; et al., 89d:83061**
Taylor, John G. *see* **Nouri-Moghadam, M.; et al., 89b:81212**
Teofilatto, Paolo *see* **Grasso, Massimo, 89k:53070**
Tkach, V. I. *see* **Sorokin, D. P., 89f:83090**
Tonin, M. *see* **Bonora, L.; et al., 89f:81093**
Townsend, P. K. *see* **Achúcarro, A.; et al., 89f:83082** *and* **Stelle, K. S., 89m:81164**
Valent, G. *see* **Olivier, Dominique, 89a:53087**
Wagemans, P. Breaking of $N = 4$ supergravity to $N = 1, 2$ at $\Lambda = 0$. **89j:81256**
Wiltshire, D. L. *see* **Achúcarro, A.; et al., 89f:83082**
de Wit, B. (*with* Grisaru, Marcus T.) Compensating fields and anomalies. **89k:81083**
— A new class of topological terms. (*see* **89f:81005**)
Yamawaki, Koichi *see* **Bando, Masako; et al., 89d:81121**
Zamolodchikov, Aleksandr B. *see* **Polyakov, A. M., 89k:81168**
Zandron, O. *see* **Abecasis, C.; et al., 89a:53084** *and* **89m:53128**
Zanon, D. *see* **Grisaru, Marcus T.; et al., 89k:81090** *and* **89k:81145**
Zhang, R. B. *see* **Delbourgo, R., 89k:83069**
Zupnik, B. M. Solution of the superfield connections of six-dimensional supersymmetry theories in a harmonic superspace. (Russian) (*see* **89d:81001**)
— (*with* Pak, D. G.) A superfield formulation of the simplest three-dimensional gauge theories and of conformal supergravities. **89j:81120**

83E99 None of the above, but in this section

Cai, Y. Q. (*with* Papini, G.) The equation of deviation in a conformally invariant theory of gravitation and electromagnetism. **89d:83077**
Gupta, Y. K. *see* **Mahanta, M. N., 89g:83055**
Mahanta, M. N. (*with* Gupta, Y. K.) Coupled Maxwell-pseudoscalar field from the Einstein-Mayer theory. (German summary) **89g:83055**
Marques, S. (*with* de Oliveira, C. G.) Geometrical properties of an internal local octonionic space in curved space-time. **89b:83096**
de Oliveira, C. G. *see* **Marques, S., 89b:83096**
Papini, G. *see* **Cai, Y. Q., 89d:83077**
Rosen, Nathan (*with* Tauber, Gerald E.) A generalization of an Einstein-Mayer theory. **89d:83078**
Scheurich, H. Principles of quaternionic vacuum thermodynamics and a unified gravistrong interaction model. (German summary) **89i:83065**
Stumpf, Harald Gravitation as a composite particle effect in a unified spinor-isospinor preon field model. I. **89i:83066**
Tauber, Gerald E. *see* **Rosen, Nathan, 89d:83078**

Items with secondary classifications in 83E99

Baekler, Peter (*with* Seitz, Mario; Winkelmann, Volker) Cylindrically symmetric solutions of self-consistently coupled Dirac fields in gauge theories of gravity. **89c:83041**
Choquet-Bruhat, Yvonne Problème de Cauchy pour les modèles gravitationnels avec termes de Gauss-Bonnet. (English summary) [The Cauchy problem for gravitational models with Gauss-Bonnet terms] **89i:58146**
Cristofano, G. (*with* Maiella, G.; Musto, R.; Nicodemi, F.; Pettorino, R.) Twisted bosonic strings and $O(16) \otimes O(16)$ heterotic model. **89a:81120**
Fukui, Takao Fundamental constants and higher-dimensional universe. **89k:83070**
Kasper, U. On the importance of quantum mechanics for the axiomatic approach to the theory of gravitation. **89e:83038**
Magnon, A. M. R. Unification of gravity and electromagnetism in dimension 4: some peculiar aspects. (Italian and Russian summaries) **89f:53109**
Maiella, G. *see* **Cristofano, G.; et al., 89a:81120**
Minkowski, P. Note on the complex of mixed gravitational and Yang-Mills anomalies of spin $\frac{1}{2}$ fermions. **89e:81117**
Musto, R. *see* **Cristofano, G.; et al., 89a:81120**
Nicodemi, F. *see* **Cristofano, G.; et al., 89a:81120**
Pettorino, R. *see* **Cristofano, G.; et al., 89a:81120**
Prugovečki, E. A Poincaré gauge-invariant formulation of general-relativistic quantum geometry. (Italian and Russian summaries) **89b:81055**
Seitz, Mario *see* **Baekler, Peter; et al., 89c:83041**
Taub, A. H. Positive energy in field theories. (Italian summary) **89e:83051**
Winkelmann, Volker *see* **Baekler, Peter; et al., 89c:83041**
Witten, Edward Topological gravity. **89m:81100**
Zha, Chao Zheng On the problem of the cosmological constant. (*see* **89b:81006**)

83F05 Cosmology

Allen, Bruce Stochastic gravity-wave background in inflationary-universe models.

89b:83097
Anikanov, V. A. *see* **Zakharov, Alekseĭ Vasilevich, 89e:83094**
Aryal, Mukunda (*with* Vilenkin, Alexander) The fractal dimension of the inflationary universe. **89d:83079**
Atkins, P. W. Time and dispersal: the second law. (*see* **89m:83002**)
Babul, Arif (*with* Piran, Tsvi; Spergel, David N.) Bosonic superconducting cosmic strings. I. Classical field theory solutions. **89b:83098**
— (*with* Piran, Tsvi; Spergel, David N.) Superconducting cosmic strings. II. Spacetime curvature. **89j:83091**
Bali, Raj (*with* Tyagi, Atul) Stiff magnetofluid cosmological model. **89e:83085**
Barberis, Bruno *see* **Galletto, Dionigi, 89i:83068**
Barrow, John D. (*with* Tipler, Frank J.) Action principles in nature. **89g:83056**
— String-driven inflationary and deflationary cosmological models. **89m:83098**
— *see also* **Burd, A. B., 89i:83067**
Belinskiĭ, V. A. (*with* Khalatnikov, I. M.) On the generality of inflationary solutions in cosmological models with a scalar field. **89f:83110**
Berezin, V. A. (*with* Kuz′min, V. A.; Tkachev, I. I.) O(3)-invariant tunneling in general relativity. **89d:83080**
— (*with* Kuz′min, V. A.; Tkachev, I. I.) Wormhole creation via classical fluctuations and inflating worlds. **89j:83092**
Berman, Marcelo Samuel A special anisotropic model of the universe. **89f:83111**
Blau, Steven K. (*with* Guth, Alan H.) Inflationary cosmology. (*see* **89b:83007**)
Bradas, James C. *see* **Fennelly, A. J.; et al., 89e:83089**
Briozzo, C. B. (*with* Budde, Carlos E.; Cáceres, Manuel O.; Lamberti, P. W.) Stability of a Robertson-Walker universe against stochastic perturbations. **89e:83086**
Brown, J. David (*with* Teitelboim, Claudio) Neutralization of the cosmological constant by membrane creation. **89d:83081**
Buchert, Thomas (*with* Götz, Günter) A class of solutions for self-gravitating dust in Newtonian gravity. **89b:83099**
Budde, Carlos E. *see* **Briozzo, C. B.; et al., 89e:83086**
Burd, A. B. (*with* Barrow, John D.) Inflationary models with exponential potentials. **89i:83067**
Cáceres, Manuel O. *see* **Briozzo, C. B.; et al., 89e:83086**
Casas, J. A. (*with* Muñoz, C.) Inflation from superstrings. **89m:83099**
Chandra, Ramesh A broken-symmetry theory of gravity. **89e:83087**
Chen, A. L. (*with* DiCarlo, D. A.; Hotes, S. A.) Self-intersections in a three-parameter space of cosmic strings. **89d:83082**
Chmielowski, Piotr A class of models of the universe filled with multidimensional objects. **89f:83112**
— (*with* Page, Don N.) Probability of Bianchi type-I inflation. **89k:83081**
Comtet, A. (*with* Gibbons, Gary) Bogomol′nyĭ bounds for cosmic strings. **89h:83042**
Copeland, E. (*with* Haws, D.; Kibble, T. W. B.; Mitchell, David; Turok, Neil) Monopoles connected by strings and the monopole problem. **89b:83100**
Deruelle, Nathalie Cosmologies primordiales, leur variété, leurs constraintes. (English summary) [Primordial cosmologies, their variety, their constraints] **89f:83113**
— (*with* Linet, B.) A cosmic string shock wave. **89e:83088**
DiCarlo, D. A. *see* **Chen, A. L.; et al., 89d:83082**
Dyer, C. C. (*with* Oattes, L. M.; Starkman, G. D.) Vacuum strings in FRW models. **89b:83101**
Ellis, G. F. R. Does inflation necessarily imply $\Omega = 1$? **89d:83083**
— (*with* Stoeger, William R.) Horizons in inflationary universes. **89h:83043**
— *see also* **Tavakol, R. K., 89d:83085**
Esposito, G. (*with* Platania, G.) Inflationary solutions in quantum cosmology. **89f:83114**
Feinstein, Alexander Late-time behavior of primordial gravitational waves in expanding universe. **89g:83057**
Fennelly, A. J. (*with* Bradas, James C.; Smalley, Larry L.) Inflation in Einstein-Cartan theory with energy-momentum tensor with spin. **89e:83089**
Fukuyama, Takeshi (*with* Kamimura, Kiyoshi) Dynamical time variable in cosmology. **89f:83115**
Furlong, Randall C. Dynamical cosmic strings from a gauge theory of gravity. **89k:83082**
Galletto, Dionigi On the metric of space-time. II. (Italian) **89c:83054**
— (*with* Barberis, Bruno) On Friedmann's models of the universe. (Italian. English summary) **89i:83068**
Géhéniau, Jules (*with* Gunzig, Edgard; Stengers, Isabelle) The universe: a birth far from equilibrium? **89c:83055**
Gibbons, Gary Sobolev's inequality, Jensen's theorem and the mass and entropy of the universe. **89k:83083**
— *see also* **Comtet, A., 89h:83042**
Görnitz, Thomas Abstract quantum theory and space-time structure. I. Ur theory and Bekenstein-Hawking entropy. **89g:83058**
— Connections between abstract quantum theory and space-time structure. II. A model of cosmological evolution. **89g:83059**
Gottlieb, Ioan *see* **Ionescu-Pallas, N., 89e:83090**
Götz, Günter *see* **Buchert, Thomas, 89b:83099**
Graziani, F. R. Quantum probability distributions in the early Universe. I. Equilibrium properties of the Wigner equation. **89h:83044a**
— Quantum probability distributions in the early Universe. II. The quantum Langevin equation. **89h:83044b**
Gregory, Ruth Effective action for a cosmic string. **89j:83093**
Grishchuk, L. P. (*with* Rozhanskiĭ, L. V.) On the beginning and the end of classical evolution in quantum cosmology. **89i:83069**
Gunzig, Edgard *see* **Géhéniau, Jules; et al., 89c:83055**
Guth, Alan H. *see* **Blau, Steven K., (89b:83007)**
Hawking, S. W. The density matrix of the universe. (*see* **89f:81005**)
— (*with* Page, Don N.) How probable is inflation? **89c:83056**
Haws, D. *see* **Copeland, E.; et al., 89b:83100**
Hill, Christopher T. (*with* Hodges, Hardy M.; Turner, Michael S.) Bosonic superconducting cosmic strings. **89f:83116**
Hjorth, P. G. *see* **Teuber, J., 89a:83071**
Hodges, Hardy M. *see* **Hill, Christopher T.; et al., 89f:83116**
Hotes, S. A. *see* **Chen, A. L.; et al., 89d:83082**
Ionescu-Pallas, N. (*with* Gottlieb, Ioan) Cosmology of the observer. (Romanian. English summary) **89e:83090**
Johri, V. B. (*with* Sudharsan, R.) Friedmann universes with bulk viscosity. **89j:83094**
Kamimura, Kiyoshi *see* **Fukuyama, Takeshi, 89f:83115**
Kasai, Masumi The triangulation in a perturbed Friedmann universe. **89f:83117**
Kazanas, Demosthenes *see* **Mannheim, Philip D., 89g:83060**
Khalatnikov, I. M. *see* **Belinskiĭ, V. A., 89f:83110**
Khlebnikov, V. I. Replacement modes in the cosmology of a two-component Friedmann universe. (Russian) **89f:83118**
Kibble, T. W. B. Gauge fields, topological defects and cosmology. (*see* **89m:01069**)
— *see also* **Copeland, E.; et al., 89b:83100**
Kim, Chung Wook *see* **Murphy, Philip, 89b:83104**
Kuz′min, V. A. *see* **Berezin, V. A.; et al., 89d:83080** *and* **89j:83092**
Lamberti, P. W. *see* **Briozzo, C. B.; et al., 89e:83086**
Linde, A. D. Inflation and quantum cosmology. (*see* **89b:83007**)
— Eternally existing self-reproducing inflationary universe. (*see* **89f:81005**)
— *see also* **Rozental′, I. L., 89c:83057**
Linet, B. A vortex-line model for a system of cosmic strings in equilibrium. **89f:83119**
— *see also* **Deruelle, Nathalie, 89e:83088**
Lukash, V. N. (*with* Schmidt, Hans-Jürgen) Isotropization by scalar field driven inflation and the cosmological quantum boundary. (German summary) **89b:83102**
Maeda, Kei-ichi Our universe as an attractor in a superstring model. **89e:83091**
Mannheim, Philip D. (*with* Kazanas, Demosthenes) Energy-momentum tensor of fields in the standard cosmology. **89g:83060**
Markov, M. A. The macro- and the microsymmetric universe. (Russian) (*see* **89d:81001**)
Mijić, Milan (*with* Stein-Schabes, Jaime A.) A no-hair theorem for R^2 models. **89e:83092**
Mitchell, David (*with* Turok, Neil) Statistical properties of cosmic strings. **89b:83103**
— *see also* **Copeland, E.; et al., 89b:83100**
Muñoz, C. *see* **Casas, J. A., 89m:83099**
Murphy, Philip (*with* Kim, Chung Wook) Solution of the horizon and flatness problems by multiple inflations. **89b:83104**
Oattes, L. M. *see* **Dyer, C. C.; et al., 89b:83101**
Page, Don N. *see* **Hawking, S. W., 89c:83056** *and* **Chmielowski, Piotr, 89k:83081**
Piran, Tsvi *see* **Babul, Arif; et al., 89b:83098** *and* **89j:83091**
Platania, G. *see* **Esposito, G., 89f:83114**
Ponce de León, J. Can ever-expanding closed universes with $\Lambda > 0$ enter an inflationary era? **89d:83084**
Rozental′, I. L. ★ Геометрия, динамика, Вселенная. (Russian) [Geometry, dynamics, the universe] **89c:83057**
Rozhanskiĭ, L. V. *see* **Grishchuk, L. P., 89i:83069**
Sasaki, Misao The magnitude-redshift relation in a perturbed Friedmann universe. **89a:83069**
Schmidt, Hans-Jürgen *see* **Lukash, V. N., 89b:83102**
Shallis, Michael Time and cosmology. (*see* **89m:83002**)
Smalley, Larry L. *see* **Fennelly, A. J.; et al., 89e:83089**
Smith, Quentin The uncaused beginning of the universe. **89a:83070**
Spergel, David N. *see* **Babul, Arif; et al., 89b:83098** *and* **89j:83091**
Starkman, G. D. *see* **Dyer, C. C.; et al., 89b:83101**
Stein-Schabes, Jaime A. *see* **Mijić, Milan, 89e:83092**
Stengers, Isabelle *see* **Géhéniau, Jules; et al., 89c:83055**
Stoeger, William R. Almost FLRW observational cosmologies. **89c:83058**
— *see also* **Ellis, G. F. R., 89h:83043**
Sudharsan, R. *see* **Johri, V. B., 89j:83094**
Tavakol, R. K. (*with* Ellis, G. F. R.) On the question of cosmological modelling. **89d:83085**
Teitelboim, Claudio *see* **Brown, J. David, 89d:83081**
Terazawa, Hidezumi Space-time and matter in "prephysics". (*see* **89b:81007**)
Teuber, J. (*with* Hjorth, P. G.) Inertia in Friedmann cosmologies. (Italian and Russian summaries) **89a:83071**
Thompson, Christopher Dynamics of cosmic string. **89e:83093**
Tipler, Frank J. *see* **Barrow, John D., 89g:83056**
Tkachev, I. I. *see* **Berezin, V. A.; et al., 89d:83080** *and* **89j:83092**
Turner, Michael S. Inflation in the universe. (*see* **89a:81005**)
— *see also* **Hill, Christopher T.; et al., 89f:83116**
Turok, Neil *see* **Copeland, E.; et al., 89b:83100** *and* **Mitchell, David, 89b:83103**
Tyagi, Atul *see* **Bali, Raj, 89e:83085**
Vaidya, P. C. Geometry of expanding universes. **89k:83084**
Vilenkin, Alexander Gravitational interactions of cosmic strings. (*see* **89b:83007**)
— *see also* **Aryal, Mukunda, 89d:83079**
Wolf, Carl Anton Inflation as a generic property of curvature dependent bulk viscosity in any number of space-time dimensions. **89c:83059**
Zakharov, Alekseĭ Vasilevich (*with* Anikanov, V. A.) Electromagnetic and gravitational perturbations in an ultrarelativistic plasma in an isotropic universe. (Russian) **89e:83094**
— Nonlinear plane-symmetric perturbations of a spatial-planar Friedmann universe filled with an ideal dust. (Russian) **89e:83095**

Items with secondary classifications in 83F05

Anile, A. M. (*with* Moschetti, G.; Bogoyavlenskiĭ, O. I.) Some solutions of Einstein's equations with shock waves. **89b:83018**
Bali, Raj (*with* Singh, Ghan Shyam; Tyagi, Atul) Some inhomogeneous cosmological models of plane symmetry with electromagnetic field. **89d:83016**
Barrow, John D. (*with* Deruelle, Nathalie) The confrontation of no-scale supergravity with cosmology. **89b:83091**
— (*with* Cotsakis, S.) Inflation and the conformal structure of higher-order gravity theories. **89j:83058**
Beesham, A. Conservation laws and radiation in the scale covariant theory of gravitation. **89b:83069**
— Kinematical quantities in the scale covariant theory of gravitation. **89b:83070**
Bennett, D. L. (*with* Brene, N.; Nielsen, Holger Bech) Random dynamics. (*see* **89f:81005**)
Berger, Beverly K. Monte Carlo simulation of a quantized universe. **89f:83003**

Biesiada, Marek (*with* Szydłowski, Marek; Szczęsny, Jerzy) Null geodesics in multidimensional homogeneous cosmologies. **89j:83070**
— *see also* **Szydłowski, Marek; et al., 89a:83065; 89c:83047** *and* **89d:83069**
Blandford, Roger D. Astrophysical black holes. (*see* **89b:83007**)
— (*with* Kovner, Israel) Formation of arcs by nearly circular gravitational lenses. **89j:85008**
Bogoyavlenskiĭ, O. I. *see* **Anile, A. M.; et al., 89b:83018**
Bona Garcia, Carles (*with* Coll, Bartolomé) On the Stephani universes. **89h:83006**
Bradley, Michael Dust EPL cosmologies. **89e:83016**
Brene, N. *see* **Bennett, D. L.; et al.,** (**89f:81005**)
Bytsenko, A. A. *see* **Goncharov, Yu. P., 89e:83083**
Centrella, Joan M. Nonlinear gravitational waves and inhomogeneous cosmologies. **89d:83030**
Chang, Ngee-Pong (*with* Li, Da-Xi; Pérez-Mercader, Juan) Cosmological constant and asymmetric orbifolds. **89i:83055**
Chen, Liang Fan *see* **Zhou, Min Yao, 89e:83041**
Chugreev, Yu. V. *see* **Logunov, A. A.; et al., 89i:83053**
Chuong, Nguyen Hong *see* **Fedorov, F. I.; et al., 89d:83052**
Coleman, Sidney Black holes as red herrings: topological fluctuations and the loss of quantum coherence. **89i:83037**
Coll, Bartolomé *see* **Bona Garcia, Carles, 89h:83006**
Cotsakis, S. *see* **Barrow, John D., 89j:83058**
Cruzate, Juan (*with* Díaz, Mario; Gleiser, Reinaldo; Pullin, Jorge) Soliton collision in cosmologies with matter. **89f:83037**
Davies, P. C. W. Cosmological horizons and entropy. **89m:83062**
Davis, Richard Lynn (*with* Shellard, E. P. S.) Antisymmetric tensors and spontaneous symmetry breaking. **89i:81055**
Demaret, J. (*with* De Rop, Y.; Henneaux, M.) Chaos in nondiagonal spatially homogeneous cosmological models in spacetime dimensions ≤ 10. **89j:83011**
— *see also* **De Rop, Y., 89m:83084**
De Rop, Y. (*with* Demaret, J.) Using EXCALC to study nondiagonal multidimensional spatially homogeneous cosmologies. **89m:83084**
— *see also* **Demaret, J.; et al., 89j:83011**
Deruelle, Nathalie (*with* Madore, John) The Friedmann universe as an attractor of a Kaluza-Klein cosmology. **89b:83077**
— *see also* **Barrow, John D., 89b:83091**
Díaz, Mario *see* **Gleiser, Reinaldo; et al., 89f:83020** *and* **Cruzate, Juan; et al., 89f:83037**
Duncan, M. J. (*with* Jensen, L. G.) The quantum cosmology of an anisotropic universe. **89k:83040**
Economou, Athanasios (*with* Tsoubelis, D.) Rotating cosmic strings and gravitational soliton waves. **89m:83066**
Elskens, Yves Ergodic theory of the mixmaster universe in higher space-time dimensions. II. **89g:83043**
Fedorov, F. I. (*with* Minkevich, A. V.; Chuong, Nguyen Hong) Spontaneous symmetry breaking by gravitational field and regular isotropic models with torsion. **89d:83052**
Feng, Long Long *see* **Li, Miao, 89e:83040**
Fishkina, G. B. *see* **Guts, A. K., 89k:57070**
Francisco, G. (*with* Matsas, G. E. A.) Qualitative and numerical study of Bianchi IX models. **89h:83013**
Fukui, Takao 5D space-time-mass gravity theory with off-diagonal components in the metric tensor. **89j:83076**
Galitskiĭ, V. S. Cosmology in the Einstein-Cartan theory of gravitation. **89i:83049**
Geroch, Robert (*with* Traschen, Jennie) Strings and other distributional sources in general relativity. **89d:83048**
Gibbons, Gary (*with* Maeda, Kei-ichi) Black holes and membranes in higher-dimensional theories with dilaton fields. **89d:83064**
Giddings, Steven B. (*with* Strominger, Andrew) Loss of incoherence and determination of coupling constants in quantum gravity. **89i:83036**
Giorgini, Bruno Fermionic symmetry-breaking in a ten-dimensional cosmological model. (French summary) **89m:83086**
Gleiser, Reinaldo (*with* Díaz, Mario; Grosso, Roberto D.) Phase transitions in perturbed stiff fluid Friedmann-Robertson-Walker cosmological models. **89f:83020**
— *see also* **Cruzate, Juan; et al., 89f:83037**
Golda, Z. A. (*with* Szydłowski, Marek; Heller, Michael) Generic and nongeneric world models. **89b:58035**
Goncharov, Yu. P. (*with* Bytsenko, A. A.) The inflationary universe in the gauged $N = 8$ supergravity induced from a superstring. **89e:83083**
Goode, S. W. Vorticity and isotropic singularities. **89f:83069**
— *see also* **Hewitt, C. G.; et al., 89j:83019**
Grøn, Ø. Inflationary cosmology according to Wesson's gravitational theory. **89a:83045**
— An inflationary cosmological model in Dunn's scalar-tensor theory of gravitation. **89a:83046**
— (*with* Soleng, Harald H.) Cosmic inertial dragging. **89c:83010**
Grosso, Roberto D. *see* **Gleiser, Reinaldo; et al., 89f:83020**
Gurzadyan, V. G. (*with* Kocharyan, A. A.) Instability in Wheeler-DeWitt superspace. **89b:83075**
— (*with* Kocharyan, A. A.) The Arnowitt-Deser-Misner principle and geodesic flows in Wheeler-De Witt superspace. **89f:83072**
Guts, A. K. (*with* Fishkina, G. B.) Symmetry dynamics of physical space and equivariant bordism theory. **89k:57070**
Hageman, T. (*with* van Leeuwen, W. A.) Viscous Bianchi type II universes with intergalactic magnetic field. **89b:83035**
Halliwell, J. J. Correlations in the wave function of the Universe. **89a:83036**
Hartle, James B. (*with* Witt, D. M.) Gravitational θ states and the wave function of the universe. **89f:83055**
Hawking, S. W. The Schrödinger equation of the Universe. (*see* **89m:01069**)
— Quantum cosmology. (*see* **89b:83007**)
— (*with* Laflamme, R.) Baby universes and the nonrenormalizability of gravity. **89h:83021**
— Wormholes in spacetime. **89f:83056**
Hellaby, Charles Volume matching in Tolman models. **89i:83019**
Heller, Michael ★ Questions to the universe. **89e:83001**
— *see also* **Golda, Z. A.; et al., 89b:58035**
Henneaux, M. *see* **Demaret, J.; et al., 89j:83011**
Hewitt, C. G. (*with* Wainwright, J.; Goode, S. W.) Qualitative analysis of a class of inhomogeneous self-similar cosmological models. **89j:83019**
Hogan, Peter A. Embedding gravitational radiation in cosmological models. **89f:83023**
Holm, Christian Neutrino spectrum of Einstein universes. **89k:81059**
Hu, B. L. *see* **Sinha, Sukanya, 89j:83049**
Hu, Xing (*with* Wu, You Lin) Quantum cosmological model with a scalar field as source. **89g:83026**
Huang, Chao Guang *see* **Liu, Liao, 89e:83074** *and* **89i:83052**
Israel, W. Dark stars: the evolution of an idea. (*see* **89b:83007**)
Jantzen, Robert T. *see* **Rosquist, Kjell, 89f:83053**
Jensen, L. G. *see* **Duncan, M. J., 89k:83040**
Joshi, Pankaj S. (*with* Joshi, Sonal S.) Quantum effects near the singularity in a general cosmological scenario. **89f:83058a**
— *see also* **Joshi, Sonal S., 89f:83058b**
Joshi, Sonal S. (*with* Joshi, Pankaj S.) Quantum effects near the singularity in a general cosmological scenario. II. **89f:83058b**
— *see also* **Joshi, Pankaj S., 89f:83058a**
Kalara, S. (*with* Kounnas, Costas; Olive, K. A.) Gravitational equations of motion at the string scale. **89j:83078**
Kandrup, Henry E. Conditional probabilities and entropy in (minisuperspace) quantum cosmology. **89g:83028**
— Entropy generation, particle creation, and quantum field theory in a cosmological spacetime: when do number and entropy increase? **89m:83051**
— Particle number and random phases. **89m:83052**
Kirillov, A. A. (*with* Kochnev, A. A.) Cellular structure of space near a singularity in time in Einstein's equations. **89k:83047**
Kocharyan, A. A. *see* **Gurzadyan, V. G., 89b:83075** *and* **89f:83072**
Kochnev, A. A. *see* **Kirillov, A. A., 89k:83047**
Kofman, L. A. (*with* Mukhanov, V. F.; Pogosyan, D. Yu.) Evolution of inhomogeneities in inflationary models in a theory of gravitation with higher derivatives. **89d:83054**
Kounnas, Costas *see* **Kalara, S.; et al., 89j:83078**
Kovner, Israel *see* **Blandford, Roger D., 89j:85008**
Kripfganz, J. (*with* Perlt, H.) Higher-dimensional cosmology and the Gauss-Bonnet term. **89d:83065**
— (*with* Perlt, H.) Cosmological impact of winding strings. **89e:83071**
Laflamme, R. The Euclidean vacuum: justification from quantum cosmology. **89a:83037**
— *see also* **Hawking, S. W., 89h:83021**
Lahiri, J. (*with* Menon, V. J.) Quantum conformal fluctuations revisited. **89f:83063**
Lee, Chul H. (*with* Lee, Hyun Kyu) Kasner-type solution in a higher-derivative gravity theory. **89k:83062**
Lee, Hyun Kyu *see* **Lee, Chul H., 89k:83062**
van Leeuwen, W. A. *see* **Hageman, T., 89b:83035** *and* **Salvati, G. A. Q.; et al., 89f:83045**
Lemos, Nivaldo A. (*with* Natividade, C. P.) Harmonic oscillator in expanding universes. (Italian and Russian summaries) **89d:83041**
Letelier, P. S. (*with* Verdaguer, E.) Cosmic strings in extra dimensions. **89c:83045**
Li, Da-Xi *see* **Chang, Ngee-Pong; et al., 89i:83055**
Li, Miao (*with* Feng, Long Long) Wave function of the universe with quantum correction of matter fields. **89e:83040**
Liu, Liao (*with* Huang, Chao Guang) Quantum cosmology in superstring theory—a toy model. **89e:83074**
— (*with* Huang, Chao Guang) The quantum cosmology in the Brans-Dicke theory. **89i:83052**
Logunov, A. A. (*with* Mestvirishvili, M. A.; Chugreev, Yu. V.) Graviton mass and the development of the Friedmann universe. **89i:83053**
Lorenz-Petzold, Dieter Higher-dimensional Gauss-Bonnet cosmologies. **89k:83071**
Louko, Jorma Canonising the Hartle-Hawking proposal. **89c:83036**
Luckock, Hugh (*with* Moss, Ian; Toms, David J.) Polyakov strings in background fields: wave functions and quantum cosmology. **89e:81115**
Macías, A. (*with* Obregón, O.; Ryan, Michael P., Jr.) Quantum cosmology: the supersymmetric square root. **89a:83038**
— (*with* Obregón, O.; Ryan, Michael P., Jr.) Quantum (super) cosmological Bianchi I model. **89d:83075**
MacKenzie, R. Topological structures on domain walls. **89i:81072**
Madore, John *see* **Deruelle, Nathalie, 89b:83077**
Maeda, Kei-ichi *see* **Gibbons, Gary, 89d:83064**
Matsas, G. E. A. *see* **Francisco, G., 89h:83013**
Matzner, Richard A. Numerical analysis of inflation. **89e:83003**
Menon, V. J. *see* **Lahiri, J., 89f:83063**
Mestvirishvili, M. A. *see* **Logunov, A. A.; et al., 89i:83053**
Minkevich, A. V. *see* **Fedorov, F. I.; et al., 89d:83052**
Mondaini, R. P. (*with* Nascimento, P. C.) Anisotropic universes and inflation. **89b:83027**
Moschetti, G. *see* **Anile, A. M.; et al., 89b:83018**
Moss, Ian *see* **Luckock, Hugh; et al., 89e:81115**
Mukhanov, V. F. *see* **Kofman, L. A.; et al., 89d:83054**
Nascimento, P. C. *see* **Mondaini, R. P., 89b:83027**
Natividade, C. P. *see* **Lemos, Nivaldo A., 89d:83041**
Nielsen, Holger Bech *see* **Bennett, D. L.; et al.,** (**89f:81005**)
Obregón, O. *see* **Macías, A.; et al., 89a:83038** *and* **89d:83075**
Olive, K. A. *see* **Kalara, S.; et al., 89j:83078**
Ozsváth, István (*with* Sapiro, Leland) The Schücking problem. **89d:53107**
Pandey, S. N. Higher-order theory of gravitation. **89e:83060**
Penrose, Roger Big bangs, black holes and "time's arrow". (*see* **89m:83002**)
Pérez-Mercader, Juan *see* **Chang, Ngee-Pong; et al., 89i:83055**
Perlt, H. *see* **Kripfganz, J., 89d:83065** *and* **89e:83071**
Pogosyan, D. Yu. *see* **Kofman, L. A.; et al., 89d:83054**
Ponce de León, J. Cosmological models with positive scalar spatial curvature and $\Lambda > 0$. **89e:83022**
— Cosmological models in a Kaluza-Klein theory with variable rest mass. **89f:83089**

— *see also* **Wesson, Paul S.**, **89m:83024**
Pullin, Jorge *see* **Cruzate, Juan; et al.**, **89f:83037**
Rosquist, Kjell (*with* Jantzen, Robert T.) Unified regularization of Bianchi cosmology. **89f:83053**
Ryan, Michael P., Jr. Plane-symmetric cosmologies—an overview. **89d:83029**
— *see also* **Macías, A.; et al.**, **89a:83038** *and* **89d:83075**
Sahni, Varun Scalar field fluctuations and infrared divergent states in cosmological models with power law expansion. **89d:83043**
Salomaa, M. M. (*with* Volovik, G. E.) Cosmiclike domain walls in superfluid ^{3}He-B: instantons and diabolical points in $(\mathbf{k},\mathbf{r})$ space. **89f:81282**
Salvati, G. A. Q. (*with* Schelling, E. E.; van Leeuwen, W. A.) Homogeneous viscous universes with magnetic field. II. Bianchi type I spaces. **89f:83045**
Sapiro, Leland *see* **Ozsváth, István**, **89d:53107**
Schelling, E. E. *see* **Salvati, G. A. Q.; et al.**, **89f:83045**
Schmidt, Hans-Jürgen The equivalence of conformally and minimally coupled scalar fields in Einstein's theory of gravity. **89k:83056**
Shellard, E. P. S. *see* **Davis, Richard Lynn**, **89i:81055**
Shikin, I. S. Dynamics of anisotropic cosmological model with ultrarelativistic matter, magnetic field, and fluxes of free isotropic particles. **89h:83011**
Shirai, Ikuo (*with* Wada, Sumio) Cosmological perturbations and quantum fields in curved space. **89m:81117**
Singh, Ghan Shyam *see* **Bali, Raj; et al.**, **89d:83016**
Singh, N. Ibotombi *see* **Tarachand, R. K.**, **89k:83022**
Sinha, Sukanya (*with* Hu, B. L.) Symmetry behavior in cosmological spacetimes: effect of slowly varying background fields. **89j:83049**
Soleng, Harald H. Cosmic shear in inflationary models of Bianchi types VIII and IX. **89g:83016a**
— Cosmologies based on Lyra's geometry. **89a:83052**
— Erratum: "Cosmic shear in inflationary models of Bianchi types VIII and IX". **89g:83016b**
— Comments on counterexamples to the cosmological "no hair" conjecture. **89j:83030**
— *see also* **Grøn, Ø.**, **89c:83010**
Stawicki, Tadeusz *see* **Szydłowski, Marek; et al.**, **89h:83036**
Stewart, J. M. Numerical cosmology. **89a:83004**
Strominger, Andrew *see* **Giddings, Steven B.**, **89i:83036**
Szczęsny, Jerzy *see* **Szydłowski, Marek; et al.**, **89a:83065**; **89c:83047**; **89d:83069**; **89h:83036** *and* **Biesiada, Marek; et al.**, **89j:83070**
Szydłowski, Marek (*with* Szczęsny, Jerzy; Biesiada, Marek) Quantum effects in multidimensional homogeneous cosmological models. **89d:83069**
— (*with* Szczęsny, Jerzy; Biesiada, Marek) Is the space-time dimension 11 distinguished in cosmology? **89a:83065**
— (*with* Biesiada, Marek; Szczęsny, Jerzy) Multidimensional mixmaster models. **89c:83047**
— The problem of chaotic behaviour in a homogeneous arbitrarily dimensional cosmology. **89c:83048**
— (*with* Szczęsny, Jerzy; Stawicki, Tadeusz) The dimensional reduction in the Kantowski-Sachs $\times T^D$ model with quantum corrections. **89h:83036**
— Dimensional reduction and the stability problem in multidimensional homogeneous cosmology. **89i:83059**
— *see also* **Golda, Z. A.; et al.**, **89b:58035** *and* **Biesiada, Marek; et al.**, **89j:83070**
Tarachand, R. K. (*with* Singh, N. Ibotombi) Cosmological viscous fluid models in the presence of electromagnetic field and zero-mass scalar field. **89k:83022**
Tauber, Gerald E. A geometrical approach to cosmology. **89g:53110**
Toms, David J. *see* **Luckock, Hugh; et al.**, **89e:81115**
Traschen, Jennie *see* **Geroch, Robert**, **89d:83048**
Tsoubelis, D. Cylindrical shells of cosmic strings. **89k:83023**
— *see also* **Economou, Athanasios**, **89m:83066**
Turkowski, Paweł A multidimensional radiation-filled universe. **89b:83089**
Tyagi, Atul *see* **Bali, Raj; et al.**, **89d:83016**
Vachaspati, Tanmay (*with* Vilenkin, Alexander) Uniqueness of the tunneling wave function of the Universe. **89f:83060**
Verdaguer, E. *see* **Letelier, P. S.**, **89c:83045**
Vilenkin, Alexander Quantum cosmology and the initial state of the Universe. **89f:83059**
— *see also* **Vachaspati, Tanmay**, **89f:83060**
Volovik, G. E. *see* **Salomaa, M. M.**, **89f:81282**
Wada, Sumio *see* **Shirai, Ikuo**, **89m:81117**
Wainwright, J. *see* **Hewitt, C. G.; et al.**, **89j:83019**
Wesson, Paul S. (*with* Ponce de León, J.) Cosmological solution of Einstein's equations with uniform density and nonuniform pressure. **89m:83024**
Witt, D. M. *see* **Hartle, James B.**, **89f:83055**
Wu, You Lin *see* **Hu, Xing**, **89g:83026**
Xanthopoulos, Basilis C. Cosmic strings coupled with gravitational and electromagnetic waves. **89a:83030**
Zhou, Min Yao (*with* Chen, Liang Fan) Partition function and energy density of a scalar field at finite temperature in Robertson-Walker spacetime. **89e:83041**
Zhuk, Alexander Problem of the boundary condition in quantum cosmology: a simple example. **89k:83041**

85–XX Astronomy and astrophysics {For celestial mechanics, see 70F15.}

85–01 Elementary exposition; textbooks

(**Brumberg, V. A.**) *see* **Soffel, Michael H.**, **89m:85001**
Soffel, Michael H. ★ Relativity in astrometry, celestial mechanics and geodesy. **89m:85001**

85–02 Advanced exposition (research surveys, monographs, etc.)

(**Germogenova, T. A.**) *see* **Knyazikhin, Yu.**, **89c:85001**
Ginzburg, V. L. ★ Теоретическая физика и астрофизика. (Russian) [Theoretical physics and astrophysics] **89a:85001**
Knyazikhin, Yu. (*with* Marshak, A.) ★ Метод дискретных ординат решения уравнения переноса. (Russian) [The discrete ordinate method for solving the transport equation] **89c:85001**
Kravtsov, Yu. A. *see* **Rytov, S. M.; et al.**, **89m:85002**
Marshak, A. *see* **Knyazikhin, Yu.**, **89c:85001**
(**Rep′ev, A. P.**) *see* **Rytov, S. M.; et al.**, **89m:85002**
Rytov, S. M. (*with* Kravtsov, Yu. A.; Tatarskiĭ, V. I.) ★ Principles of statistical radiophysics. 2. **89m:85002**
Tatarskiĭ, V. I. *see* **Rytov, S. M.; et al.**, **89m:85002**

85–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 85–03

Barker, Peter (*with* Goldstein, Bernard R.) The role of comets in the Copernican revolution. **89i:01016**
Beller, Eliyahu Ancient Jewish mathematical astronomy. **89b:01012**
(**Boscovich, Ruggiero Giuseppe**) *see* **Proverbio, Edoardo**, **89e:01024**
Broughton, Peter Arthur Storer of Maryland: his astronomical work and his family ties with Newton. **89f:01023**
Chaĭkovskiĭ, Yu. V. Vague regularities in planetary astronomy (on the evolution of the understanding of the laws of nature). (Russian) **89a:01018**
(**Gemma Frisius, Reiner**) *see* **Goldstein, Bernard R.**, **89i:01019**
Gerasimov, I. A. Newton and celestial mechanics. (Russian) **89m:01036**
Gerdes, Dieter Wilhelm Olbers' erste Berechnung einer Kometenbahn aus dem Jahre 1779. [Wilhelm Olbers' first calculation of a comet orbit from the year 1779] **89m:01047**
Goldstein, Bernard R. Remarks on Gemma Frisius's *De radio astronomico et geometrico.* **89i:01019**
— *see also* **Barker, Peter**, **89i:01016**
(**Kepler, Johannes**) *see* **Stephenson, Bruce**, **89f:01024**
Moesgaard, Kristian Peder In chase of an origin for the mean planetary motions in Ptolemy's *Almagest.* **89i:01004**
(**Newton, Isaac**) *see* **Broughton, Peter**, **89f:01023** *and* **Gerasimov, I. A.**, **89m:01036**
(**Olbers, Wilhelm**) *see* **Gerdes, Dieter**, **89m:01047**
Proverbio, Edoardo R. G. Boscovich's determination of instrumental errors in observation. **89e:01024**
(**Ptolemy**) *see* **Moesgaard, Kristian Peder**, **89i:01004**
Stephenson, Bruce ★ Kepler's physical astronomy. **89f:01024**
(**Storer, Arthur**) *see* **Broughton, Peter**, **89f:01023**
(**Theon of Alexandria**) *see* **Tihon, Anne**, **89a:01012** *and* **89k:01003**
Tihon, Anne Théon d'Alexandrie et les *Tables faciles* de Ptolémée. [Theon of Alexandria and Ptolemy's *Handy tables*] **89a:01012**
— Le livre V retrouvé du *Commentaire à l'Almageste* de Théon d'Alexandrie. [The rediscovered Book V of Theon of Alexandria's *Commentary on the Almagest*] **89k:01003**

85–05 Experimental papers

Jaynes, E. T. Detection of extra-solar system planets. **89m:85003**

Items with secondary classifications in 85–05

Murdin, Lesley ★ Under Newton's shadow. **89g:01024**

85–06 Proceedings, conferences, etc.

Items with secondary classifications in 85–06

(**Benney, David J.**) *see* **Applied mathematics, fluid mechanics, astrophysics**, **89f:76002**
(**Lin, Chia Chiao**) *see* **Applied mathematics, fluid mechanics, astrophysics**, **89f:76002**
(**Shu, Frank H.**) *see* **Applied mathematics, fluid mechanics, astrophysics**, **89f:76002**
(**Yuan, Chi**) *see* **Applied mathematics, fluid mechanics, astrophysics**, **89f:76002**

Items listed otherwise than by author

Applied mathematics, fluid mechanics, astrophysics ★ Applied mathematics, fluid mechanics, astrophysics. **89f:76002**
Cambridge, MA ★ Applied mathematics, fluid mechanics, astrophysics. **89f:76002**
Symposium:
  Applied Mathematics, Fluid Mechanics, Astrophysics ★ Applied mathematics, fluid mechanics, astrophysics. **89f:76002**

85–08 Computational methods

Anzer, U. *see* **Lister, G. G.; et al.**, **89d:85001**
Boerner, G. *see* **Lister, G. G.; et al.**, **89d:85001**
Lister, G. G. (*with* Anzer, U.; Boerner, G.) Numerical simulations of accretion onto rotating, magnetic neutron stars. **89d:85001**

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Nobili, Anna M. *see* **Milani, Andrea, 89m:85004**

Items with secondary classifications in 85-08

Agoshkov, V. I. (*with* Lobarev, I. V.) ★ Применение вариационных принципов к решению уравнения переноса. (Russian) [Application of variational principles to the solution of a transport equation] **89d:82149**

Herrero, A. *see* **Puls, J., 89k:85005**

Jaynes, E. T. Detection of extra-solar system planets. **89m:85003**

Lobarev, I. V. *see* **Agoshkov, V. I., 89d:82149**

Mishchenko, M. I. Reflection and transmission of polarized light by anisotropic atmospheres. I. Basic equations and calculation techniques. (Russian. English summary) **89i:85004**

Murtagh, F. Hierarchical trees in N-body simulations: relations with cluster analysis methods. **89k:85010**

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Puls, J. (*with* Herrero, A.) Approximate lambda-operators working at optimum convergence rate. I. Theory and application to hydrostatic atmospheres. **89k:85005**

Shapiro, Stuart L. (*with* Teukolsky, Saul A.) Relativistic stellar dynamics on the computer. **89c:83004**

Teukolsky, Saul A. *see* **Shapiro, Stuart L., 89c:83004**

85A05 Galactic and stellar dynamics

Batt, J. (*with* Pfaffelmoser, K.) On the radius continuity of the models of polytropic gas spheres which correspond to the positive solutions of the generalized Emden-Fowler equation. **89k:85001**

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Chumak, O. V. *see* **Chumak, Z. N., 89k:85002**

Chumak, Z. N. (*with* Chumak, O. V.) The probability of binary stars coming together in a homogeneous gravitating layer of finite width. (Russian) **89k:85002**

Contopoulos, G. The 4 : 1 resonance in barred galaxies. **89e:85001**

Dejonghe, Herwig (*with* de Zeeuw, Tim) Analytic axisymmetric galaxy models with three integrals of motion. **89m:85005**

Franx, Marijn The projection of galaxy models with a Stäckel potential. **89b:85001**

Fridman, A. M. *see* **Polyachenko, V. L., 89j:85002**

Gerhard, Ortwin E. *see* **Louis, Peter D., 89d:85004**

Goodman, Jeremy An instability test for nonrotating galaxies. **89d:85003**

Götz, Günter Solitons in Newtonian gravity. **89e:85002**

Gurzadyan, V. G. (*with* Kocharyan, A. A.) Dynamic chaos and a regular field. **89m:85006**

Hunter, C. Distribution functions for triaxial galaxies. (*see* **89f:76002**)

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Louis, Peter D. (*with* Gerhard, Ortwin E.) Can galaxies oscillate? A self-consistent model of a nonstationary stellar system. **89d:85004**

Lowe, S. A. *see* **Bertin, G.; et al.**, (Not in MR)

Lynden-Bell, D. *see* **de Zeeuw, Tim, 89d:85005**

Malkov, E. A. *see* **Kondrat′ev, B. P., 89f:85001**

Mor, A. *see* **Weinstein, Marcel Mordechai, 89e:85004**

Pacheco, F. (*with* Pucacco, G.; Ruffini, R.; Sebastiani, G.) Equilibrium figures of anisotropic heterogeneous S-type Riemann ellipsoids. **89k:85003**

Palmer, P. L. (*with* Papaloizou, J. C. B.) The stability of spherical stellar systems with a compact central mass. **89c:85002**

Papaloizou, J. C. B. *see* **Palmer, P. L., 89c:85002**

Pfaffelmoser, K. *see* **Batt, J., 89k:85001**

Pfenniger, Daniel *see* **de Zeeuw, Tim, 89k:85004**

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Pucacco, G. *see* **Pacheco, F.; et al., 89k:85003**

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Sebastiani, G. *see* **Pacheco, F.; et al., 89k:85003**

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Sobouti, Y. Liouville's equation. I. Symmetries and classification of modes. **89m:85009**

Szydłowski, Marek *see* **Biesiada, Marek, 89h:85001**

Takeuti, M. *see* **Tanaka, Yasuo, 89g:85001**

Tanaka, Yasuo (*with* Takeuti, M.) A model oscillator of irregular stellar variability. **89g:85001**

Thurstans, R. P. *see* **Bertin, G.; et al.**, (Not in MR)

Weinstein, Marcel Mordechai (*with* Mor, A.) An exact solution of Haugan's binary pulsar equation of motion. **89e:85004**

Wise, Mark B. Non-Gaussian fluctuations. **89a:85003**

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— *see also* **Dejonghe, Herwig, 89m:85005**

Zel′dovich, Ya. B. *see* **Shandarin, S. F., 89m:85008**

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Batt, J. (*with* Berestycki, Henri; Degond, P.; Perthame, Benoît) Some families of solutions of the Vlasov-Poisson system. **89j:35112**

Berestycki, Henri *see* **Batt, J.; et al., 89j:35112**

Chumak, O. V. *see* **Sagintaev, B. S., 89j:70018**

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Pellat, R. *see* **Tagger, M.; et al., 89k:85009**

Perthame, Benoît *see* **Batt, J.; et al., 89j:35112**

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Rolandi, Francesca *see* **Prouse, Giovanni; et al., 89c:76055**

Sagintaev, B. S. (*with* Chumak, O. V.) Evolution of an ensemble of arbitrary orbits in gravitational systems in the presence of an irregular field. (Russian) **89j:70018**

Sygnet, J. F. *see* **Tagger, M.; et al., 89k:85009**

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Yau, Horng-Tzer *see* **Lieb, Elliott H., 89b:82014**

Yotsutani, Shoji *see* **Ni, W.-M., 89b:35043**

Zaretti, A. *see* **Prouse, Giovanni; et al., 89c:76055**

Zhang, Bang Gu Isolated collisionless uniform spherical solution of Boltzmann's equation. **89c:82037**

85A10 Astronautics

Items with secondary classifications in 85A10

Solov′ëv, V. N. The duality of some nonconvex extremal problems. (Russian) **89b:90196**

85A15 Stellar structure

Blandford, Roger D. Astrophysical black holes. (*see* **89b:83007**)

Evans, N. W. (*with* Lynden-Bell, D.) Solutions of the equations of stellar hydrodynamics for Eddington systems. **89m:85010**

Finn, Lee Samuel Relativistic stellar pulsations in the Cowling approximation. **89c:85003**

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Kocharyan, A. A. *see* **Gurzadyan, V. G.; et al., 89a:85004**

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Lynden-Bell, D. *see* **Evans, N. W., 89m:85010**

Matinyan, S. G. *see* **Gurzadyan, V. G.; et al., 89a:85004**

Seaton, M. J. Quantum theory and astronomy. (*see* **89m:01069**)

Items with secondary classifications in 85A15

Biesiada, Marek On some group properties of Newtonian static star structure equations. **89j:85003**

Bogdanov, I. V. (*with* Demkov, Yu. N.) Determination of the internal structure of relativistic astrophysical objects in the wave approximation. **89c:83037**

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85A20 Stellar atmospheres

Berger, Mitchell A. An energy formula for nonlinear force-free magnetic fields. **89e:85005**

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Items with secondary classifications in 85A20

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Nikolaĭshvili, Sh. S. *see* **Bolkvadze, Zh. D.; et al., (89b:82003)**
Truman, Aubrey *see* **Durran, Richard, 89j:81046**

85A25 Radiative transfer

Attia, M. T. *see* **Haggag, M. H.; et al., 89i:85002**
Biesiada, Marek On some group properties of Newtonian static star structure equations. **89j:85003**
Deutsch, Claude *see* **Vanderhaegen, D.**, (Not in MR)
El-Labany, S. *see* **Haggag, M. H.; et al., 89i:85002**
Engibaryan, N. B. *see* **Vardanyan, R. S., 89d:85007**
Haggag, M. H. (*with* Machali, H. M.; El-Labany, S.; Attia, M. T.) Chandrasekhar's X- and Y-functions. **89i:85002**
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Machali, H. M. *see* **Haggag, M. H.; et al., 89i:85002**
van der Mee, C. V. M. *see* **Hovenier, J. W., 89d:85006**
Mishchenko, M. I. Reflection and transmission of polarized light by anisotropic atmospheres. I. Basic equations and calculation techniques. (Russian. English summary) **89i:85004**
Nickel, G. H. Cellular automaton rules for solving the Milne problem. **89j:85004**
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— *see also* **Strelkov, S. A., 89k:85006**
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(Germogenova, T. A.) *see* **Knyazikhin, Yu., 89c:85001**
Golse, François Remarques sur l'homogénéisation des équations de transport. (English summary) [Remarks on the homogenization of transport equations] **89b:82130**
— *see also* **Bardos, Claude; et al., 89f:35174**
Greenberg, William *see* **Ganchev, Alexander H.; et al., 89f:47063**
Karyukin, V. V. Linear equations connected with optimization of the Monte Carlo method in calculations of radiative transfer. (Russian. English summary) **89a:82061**
Knyazikhin, Yu. (*with* Marshak, A.) ★ Метод дискретных ординат решения уравнения переноса. (Russian) [The discrete ordinate method for solving the transport equation] **89c:85001**
Larsen, Edward W. (*with* Morel, Jim Emanuel; Miller, Warren F., Jr.) Asymptotic solutions of numerical transport problems in optically thick, diffusive regimes. **89b:65191**
Lobarev, I. V. *see* **Agoshkov, V. I., 89d:82149**
Marshak, A. *see* **Knyazikhin, Yu., 89c:85001**
van der Mee, C. V. M. *see* **Ganchev, Alexander H.; et al., 89f:47063**
Mikhaĭlov, G. A. Vector Monte Carlo methods for calculating perturbations and derivatives with respect to parameters. (Russian) **89b:65018**
Miller, Warren F., Jr. *see* **Larsen, Edward W.; et al., 89b:65191**
Morel, Jim Emanuel *see* **Larsen, Edward W.; et al., 89b:65191**
Muradyan, M. G. *see* **Engibaryan, N. B., 89h:82058**
Nazaraliev, M. A. *see* **Antyufeev, V. S., 89e:86009**
(Nikolaĭshvili, Sh. S.) *see* **Approximate methods for solving some problems of the transfer of neutron and gamma radiation, 89b:82003**
Paveri-Fontana, S. L. (*with* Zweifel, P. F.) Application of the closure relation in transport theory. **89d:82153**
Perthame, Benoît *see* **Bardos, Claude; et al., 89f:35174**
Schweizer, Martin Andreas Relativistic radiative hydrodynamics. **89j:76096**
Sentis, Rémi *see* **Bardos, Claude; et al., 89f:35174**
Shabahang, R. Mean wave solution: bounded medium—discrete scatterers. **89b:78014**
Sharma, V. D. Transport of Lipschitz discontinuities along bicharacteristics in radiative magnetogasdynamics. **89f:76084**
Shew, Steven (*with* Wang, Alan P.) Scattering operators and propagation solutions for a nonstationary transfer equation. **89m:35173**
Sukavanam, N. A note on the Chandrasekhar's X-function. **89f:82098**
Valentyuk, A. N. The Green functions of the radiative transfer equation in a three-dimensional inhomogeneous random scattering medium. (Russian. English summary) **89f:82043**
Wang, Alan P. *see* **Shew, Steven, 89m:35173**
Yavushkin, V. I. Acceleration of convergence of a method for simple iteration in problems of transport theory. (Russian) **89h:82063**
Zweifel, P. F. *see* **Paveri-Fontana, S. L., 89d:82153**

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Approximate methods for solving some problems of the transfer of neutron and gamma radiation ★ Приближенные методы решения некоторых задач переноса нейтронного и гамма излучений. (Russian) [Approximate methods for solving some problems of the transfer of neutron and gamma radiation] **89b:82003**

85A30 Hydrodynamic and hydromagnetic problems [see also 76Y05]

Aly, J. J. Some properties of the solutions of a nonlinear boundary value problem for a force-free field in an infinite region of space. I. Energy estimates. **89f:85003**
Anderson, James L. (*with* Spiegel, E. A.) Line formation in a relativistically expanding atmosphere. **89e:85006**
Azar, Michel (*with* Thompson, W. B.) Magnetic confinement of cosmic clouds. **89g:85002**
Chen, James Effects of toroidal forces in current loops embedded in a background plasma. (Not in MR)
Fridman, A. M. (*with* Gor'kavyĭ, N. N.) Processes of transfer, instabilities and structure of planetary rings. **89m:85011**
Gor'kavyĭ, N. N. *see* **Fridman, A. M., 89m:85011**
Hu, Wen Rui (*with* Long, Hui) Nonaxisymmetric magnetostatic equilibrium with strong twisted component of magnetic field. **89m:85012**
Iannelli, Angela Analysis of a mathematical model associated with an astrophysical problem. (Italian) **89b:85004**
Ikeuchi, Satoru *see* **Nozakura, Toshiya, 89j:85007**
Kates, R. E. Nonlinear evolution of acoustic waves in dust interacting with dark matter in Newtonian cosmology. Biasing, voids, and the Kadomtsev-Petviashvili equation. **89d:85008**
Kopal, Zdeněk The effects of mutual irradiation on the observed radial velocity of the components of close binary systems. **89f:85004**
Kritsuk, A. G. Thermal instability of nonequilibrium systems. **89k:85007**
Lin, D. N. C. *see* **Papaloizou, J. C. B., 89e:85007**
Long, Hui *see* **Hu, Wen Rui, 89m:85012**
Lungu, N. On the stability of certain relativistic polytropes. **89f:85005**
Macdonald, Douglas A. (*with* Thorne, Kip S.; Price, Richard H.; Zhang, Xiao-He) Astrophysical applications of black-hole electrodynamics. (*see* **89b:83002**)
Nozakura, Toshiya (*with* Ikeuchi, Satoru) Spiral patterns on a differentially rotating galactic disk: self-organized structures in galaxies. **89j:85007**
Ori, Amos (*with* Piran, Tsvi) A simple stability criterion for isothermal spherical self-similar flow. **89h:85002**
Papaloizou, J. C. B. (*with* Lin, D. N. C.) On the pulsational overstability in narrowly confined viscous rings. **89e:85007**
Pellat, R. *see* **Tagger, M.; et al., 89k:85009**
Piran, Tsvi *see* **Ori, Amos, 89h:85002**
Price, Richard H. *see* **Macdonald, Douglas A.; et al., (89b:83002)**
Semenov, D. V. Evolution of the correlation matrix of a magnetic field in a homogeneous and isotropic velocity field. (Russian) **89k:85008**
Spiegel, E. A. *see* **Anderson, James L., 89e:85006**
Sygnet, J. F. *see* **Tagger, M.; et al., 89k:85009**
Tagger, M. (*with* Sygnet, J. F.; Pellat, R.) Bars and barred spirals: linear theory revisited. **89k:85009**
Thompson, W. B. *see* **Azar, Michel, 89g:85002**
Thorne, Kip S. *see* **Macdonald, Douglas A.; et al., (89b:83002)**
Verhulst, F. Nonlinear diffusion in stellar magnetic loops. (*see* **89g:58004**)
Zhang, Xiao-He *see* **Macdonald, Douglas A.; et al., (89b:83002)**
Zhao, Xue Pu Formation mechanism and mathematical description of viscosity and anisotropic pressure in the solar wind. **89c:85004**

Items with secondary classifications in 85A30

Aly, J. J. *see* **Amari, T., 89j:76086**
Amari, T. (*with* Aly, J. J.) Interaction between a line current and a two-dimensional constant-α force-free field: an analytical model for quiescent prominences. **89j:76086**
Anzer, U. *see* **Lister, G. G.; et al., 89d:85001**
Boerner, G. *see* **Lister, G. G.; et al., 89d:85001**
Bulgarelli, U. (*with* Cerimele, M. M.; Zaretti, A.) A numerical method for a mathematical model in gravitational hydrodynamics. **89j:76009**
Cerimele, M. M. *see* **Bulgarelli, U.; et al., 89j:76009**
Ferriz-Mas, A. Nonlinear flows along magnetic flux tubes: mathematical structure and exact simple wave solutions. **89i:76096**
Finn, John M. (*with* Ott, Edward) Chaotic flows and fast magnetic dynamos. **89k:76100**
Gol'dshtik, M. A. (*with* Shtern, V. N.) Conical flows of fluid with variable viscosity. **89j:76044**
Gottlöber, S. *see* **Mathai, A. M.; et al., 89j:85009**
Grosser, H. Magnetic decay modes for a slender torus. **89d:76032**
Haubold, H. J. *see* **Mathai, A. M.; et al., 89j:85009**

Lister, G. G. (*with* Anzer, U.; Boerner, G.) Numerical simulations of accretion onto rotating, magnetic neutron stars. **89d:85001**
Mathai, A. M. (*with* Haubold, H. J.; Mücket, J. P.; Gottlöber, S.; Müller, Volker) Gravitational instability in a multicomponent cosmological medium. **89j:85009**
Mücket, J. P. *see* **Mathai, A. M.; et al., 89j:85009**
Müller, Volker *see* **Mathai, A. M.; et al., 89j:85009**
Ott, Edward *see* **Finn, John M., 89k:76100**
Prouse, Giovanni (*with* Rolandi, Francesca; Zaretti, A.) On a mathematical model describing interaction between two classical gravitational fields. (Italian summary) **89c:76055**
Rai, Arisudan (*with* Vishwakarma, J. P.) Nonuniform propagation of weak waves through thermally-conducting and dissociating gases. **89i:76071**
Rolandi, Francesca *see* **Prouse, Giovanni; et al., 89c:76055**
Schweizer, Martin Andreas Relativistic radiative hydrodynamics. **89j:76096**
Sharma, B. M. Stability of electrically conducting fluid in the presence of a horizontal magnetic field. **89i:76054**
Shtern, V. N. *see* **Gol′dshtik, M. A., 89j:76044**
Vishwakarma, J. P. *see* **Rai, Arisudan, 89i:76071**
Zaretti, A. *see* **Prouse, Giovanni; et al., 89c:76055** *and* **Bulgarelli, U.; et al., 89j:76009**

85A35 Statistical astronomy

Calzetti, D. (*with* Giavalisco, M.; Ruffini, R.) The normalization of the correlation functions for extragalactic structures. **89d:85009**
Catelan, Paolo (*with* Lucchin, Francesco; Matarrese, Sabino) Peak number density of non-Gaussian random fields. **89d:85010**
Garncarek, Zbigniew (*with* Kuklewski, Julian; Rudnicki, Konrad) Investigation of population distribution. II. (Polish. English summary) **89g:85003**
Giavalisco, M. *see* **Calzetti, D.; et al., 89d:85009**
Kuklewski, Julian *see* **Garncarek, Zbigniew; et al., 89g:85003**
Lucchin, Francesco *see* **Catelan, Paolo; et al., 89d:85010**
Matarrese, Sabino *see* **Catelan, Paolo; et al., 89d:85010**
Pfenniger, Daniel *see* **Udry, S.**, (Not in MR)
Rousseeuw, Peter J. An application of L_1 to astronomy. (*see* **89b:62009**)
Rudnicki, Konrad *see* **Garncarek, Zbigniew; et al., 89g:85003**
Ruffini, R. *see* **Calzetti, D.; et al., 89d:85009**
Udry, S. (*with* Pfenniger, Daniel) Stochasticity in elliptical galaxies. (Not in MR)

85A40 Cosmology {For relativistic cosmology, see 83F05.}

Blandford, Roger D. (*with* Kovner, Israel) Formation of arcs by nearly circular gravitational lenses. **89j:85008**
Gottlöber, S. *see* **Mathai, A. M.; et al., 89j:85009**
Haubold, H. J. *see* **Mathai, A. M.; et al., 89j:85009**
Kovner, Israel *see* **Blandford, Roger D., 89j:85008**
Mathai, A. M. (*with* Haubold, H. J.; Mücket, J. P.; Gottlöber, S.; Müller, Volker) Gravitational instability in a multicomponent cosmological medium. **89j:85009**
Mücket, J. P. *see* **Mathai, A. M.; et al., 89j:85009**
Müller, Volker *see* **Mathai, A. M.; et al., 89j:85009**
Murtagh, F. Hierarchical trees in N-body simulations: relations with cluster analysis methods. **89k:85010**
Rees, Martin J. The emergence of structure in the universe: galaxy formation and 'dark matter'. (*see* **89b:83007**)
Stebbins, Albert Cosmic strings and the microwave sky. I. Anisotropy from moving strings. **89b:85005**

Items with secondary classifications in 85A40

Barrow, John D. (*with* Tipler, Frank J.) Action principles in nature. **89g:83056**
Blau, Steven K. (*with* Guth, Alan H.) Inflationary cosmology. (*see* **89b:83007**)
Ellis, G. F. R. *see* **Tavakol, R. K., 89d:83085**
Géhéniau, Jules (*with* Gunzig, Edgard; Stengers, Isabelle) The universe: a birth far from equilibrium? **89c:83055**
Gunzig, Edgard *see* **Géhéniau, Jules; et al., 89c:83055**
Guth, Alan H. *see* **Blau, Steven K.**, (**89b:83007**)
Kuwahara, Fumiko Relativistic accretion tori around Schwarzschild black holes. **89j:83013**
Maartens, R. First integrals of cosmological-type equations. **89m:58184**
Sasaki, Misao The magnitude-redshift relation in a perturbed Friedmann universe. **89a:83069**
Stengers, Isabelle *see* **Géhéniau, Jules; et al., 89c:83055**
Tavakol, R. K. (*with* Ellis, G. F. R.) On the question of cosmological modelling. **89d:83085**
Tipler, Frank J. *see* **Barrow, John D., 89g:83056**

85A45 Radio astronomy

Items with secondary classifications in 85A45

Goodrich, R. K. (*with* Gustafson, K. E.) Spectral estimation and factorization in higher dimensions. **89c:42021**
Gustafson, K. E. *see* **Goodrich, R. K., 89c:42021**
Kravtsov, Yu. A. *see* **Rytov, S. M.; et al., 89m:85002**
(Rep′ev, A. P.) *see* **Rytov, S. M.; et al., 89m:85002**
Rytov, S. M. (*with* Kravtsov, Yu. A.; Tatarskiĭ, V. I.) ★ Principles of statistical radiophysics. 2. **89m:85002**
Tatarskiĭ, V. I. *see* **Rytov, S. M.; et al., 89m:85002**

85A99 Miscellaneous topics

Balian, Roger (*with* Schaeffer, Richard) Les dimensions fractales de la distribution des galaxies dans l'univers. (English summary) [Fractal dimensions of the galaxy distribution in the universe] **89d:85011**
Grushevskiĭ, A. V. Tidal evolution of the axial rotations of celestial bodies taking into account their compression. (Russian. English summary) **89d:85012**
Schaeffer, Richard *see* **Balian, Roger, 89d:85011**
Shkvarko, Yu. V. Regularization concept in statistical methods for remote sensing radiospectrometry. (Russian. English summary) **89g:85004**

Items with secondary classifications in 85A99

Tomilin, E. F. An interpretation of the anomalous displacement of the perihelion of planets. (Russian) (*see* **89g:70002**)

86–XX Geophysics [see also 73Nxx, 76U05, 76V05]

86–01 Elementary exposition; textbooks

Items with secondary classifications in 86–01

Pichler, Helmut ★ Dynamik der Atmosphäre. (German) [Dynamics of the atmosphere] **89a:86011**

86–02 Advanced exposition (research surveys, monographs, etc.)

Dymnikov, V. P. *see* **Marchuk, G. I.; et al., 89f:86001**
Marchuk, G. I. (*with* Dymnikov, V. P.; Zalesnyĭ, V. B.) ★ Математические модели в геофизической гидродинамике и численные методы их реализации. (Russian) [Mathematical models in geophysical hydrodynamics and numerical methods for their realization] **89f:86001**
Zalesnyĭ, V. B. *see* **Marchuk, G. I.; et al., 89f:86001**

Items with secondary classifications in 86–02

Aleksidze, M. A. ★ Приближенные методы решения прямых и обратных задач гравиметрии. (Russian) [Approximate methods for solving direct and inverse problems of gravimetry] **89k:86008**

86–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 86–03

(Gauß, Carl Friedrich) *see* **Wiederkehr, Karl Heinrich, 89b:01027**
(Goldschmidt, Carl Wolfgang Benjamin) *see* **Küssner, Martha, 89b:01028**
(Huygens, Christiaan) *see* **Mignard, F., 89d:01027**
Küssner, Martha Carl Wolfgang Benjamin Goldschmidt und Moritz Abraham Stern, zwei Gaußschüler jüdischer Herkunft. [Carl Wolfgang Benjamin Goldschmidt and Moritz Abraham Stern, two students of Gauss of Jewish descent] **89b:01028**
Mignard, F. The theory of the figure of the Earth according to Newton and Huygens. **89d:01027**
(Newton, Isaac) *see* **Mignard, F., 89d:01027**
(Stern, Moritz Abraham) *see* **Küssner, Martha, 89b:01028**
Wiederkehr, Karl Heinrich Über die Verleihung der Copley-Medaille an Gauß und die Mitarbeit Englands im Göttinger Magnetischen Verein. [On the awarding of the Copley medal to Gauss and on England's cooperation in the Göttingen Magnetic Association] **89b:01027**

Items listed otherwise than by author

Biography:
- **Goldschmidt, Carl Wolfgang Benjamin** *see* **Küssner, Martha, 89b:01028**
- **Stern, Moritz Abraham** *see* **Küssner, Martha, 89b:01028**

86–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 86–04

Efimov, A. B. *see* **Strakhov, V. N.; et al.**, (Not in MR)
Khokhryakova, M. M. *see* **Strakhov, V. N.; et al.**, (Not in MR)
Strakhov, V. N. (*with* Efimov, A. B.; Khokhryakova, M. M.) Methods for the synthesis of series in spherical functions that represent elements of potential geodesic fields. (Russian) (Not in MR)

86–06 Proceedings, conferences, etc.

(Busse, F. H.) *see* **Dynamo theory of planetary magnetism, 89j:86001**
(Soward, A. M.) *see* **Dynamo theory of planetary magnetism, 89j:86001**

Items listed otherwise than by author

Conference:
- **MGUS** ★ New advances in geostatistics. **89a:86001**

Dynamo theory of planetary magnetism ★ Dynamo theory of planetary magnetism. **89j:86001**
New advances in geostatistics ★ New advances in geostatistics. **89a:86001**
Redwood City, CA ★ New advances in geostatistics. **89a:86001**

Session:
New Advances in Geostatistics ★ New advances in geostatistics. **89a:86001**
Special Issue:
Dynamo theory of planetary magnetism ★ Dynamo theory of planetary magnetism. **89j:86001**

86-08 Computational methods

Berendt, G. *see* **Schomburg, B., 89h:86002**
Boender, C. G. E. (*with* Rinnooy Kan, A. H. G.; Vellekoop, A. H.) A random field model for estimating the content of soil layers. **89e:86001**
David, Michel *see* **Marcotte, D., 89h:86001**
Diamond, Phil Interval-valued random functions and the kriging of intervals. **89e:86002**
Marcotte, D. (*with* David, Michel) Trend surface analysis as a special case of IRF-*k* kriging. **89h:86001**
Myers, Donald E. Comment: "Matheronian geostatistics—quo vadis? [Math. Geol. 18 (1986), no. 1, 93–117; MR 88f:86009a] by G. M. Philip and D. F. Watson. **89a:86002**
Parrish, Rudolph S. (*with* Perdue, E. Michael) Computational methods for fitting statistical distribution models of multi-site binding equilibria. **89m:86001**
Perdue, E. Michael *see* **Parrish, Rudolph S., 89m:86001**
(Philip, G. M.) *see* **Myers, Donald E., 89a:86002**
Rinnooy Kan, A. H. G. *see* **Boender, C. G. E.; et al., 89e:86001**
Santosa, Fadil (*with* Symes, W. W.) Computation of the Hessian for least-squares solutions of inverse problems of reflection seismology. **89d:86001**
Schomburg, B. (*with* Berendt, G.) On the convergence of the Backus-Gilbert algorithm. **89h:86002**
Symes, W. W. *see* **Santosa, Fadil, 89d:86001**
Vellekoop, A. H. *see* **Boender, C. G. E.; et al., 89e:86001**
(Watson, D. F.) *see* **Myers, Donald E., 89a:86002**
Zlatev, Zahari Numerical treatment of some mathematical models describing long-range transport of air pollution. **89d:86002**

Items with secondary classifications in 86-08

Bakushinskiĭ, A. B. (*with* Goncharskiĭ, A. V.; Stepanova, L. D.) Iterative regularizable algorithms for solving three-dimensional inverse problems of gravimetry. (Russian) (Not in MR)
Bárdossy, A. Notes on the robustness of the kriging system. **89d:86007**
Barker, E. *see* **Franke, Richard; et al., 89e:86006**
Bell, R. C. *see* **Frederiksen, Jorgen S., 89d:86013**
Borgman, Leon E. New advances in methodology for statistical tests useful in geostatistical studies. **89d:86008**
Bube, Kenneth P. The effect of discontinuities on the order of convergence of numerical inversion methods. **89d:86004**
Cressie, Noel Spatial prediction and ordinary kriging. **89d:86009**
Cullen, M. J. P. (*with* Shutts, G. J.) Numerical modelling of balanced atmospheric flow. **89e:86005**
Druskin, V. L. (*with* Knizhnerman, L. A.) A method for solving direct problems of electrical logging and prospecting with direct current. (Russian) **89m:86016**
Dymnikov, V. P. *see* **Marchuk, G. I.; et al., 89f:86001**
Efimov, A. B. *see* **Strakhov, V. N., 89k:86005** *and* (Not in MR)
(Egorova, L. I.) *see* **Marchuk, G. I., 89i:86002**
Engersbach, N. Great circle stereographic trajectory representation. **89e:86008**
Entin, V. A. *see* **Strakhov, V. N.; et al., 89m:86018**
Feingold, Graham (*with* Tzivion, Shalva; Levin, Zev) Evolution of raindrop spectra. I. Solution to the stochastic collection/breakup equation using the method of moments. **89k:86010**
Fel′dman, S. I. *see* **Tsirul′skiĭ, A. V.; et al., 89k:86006**
Franke, Richard (*with* Barker, E.; Goerss, J.) The use of observed data for the initial-value problem in numerical weather prediction. **89e:86006**
Frederiksen, C. S. (*with* Frederiksen, Jorgen S.) The application of spectral techniques in a study of the stability of orographically forced planetary waves. **89d:86012**
Frederiksen, Jorgen S. (*with* Bell, R. C.) Simulations and closure theory for interacting barotropic waves. **89d:86013**
— *see also* **Frederiksen, C. S., 89d:86012**
Gersztenkorn, Adam *see* **Scales, John A.; et al., 89d:86006**
Goerss, J. *see* **Franke, Richard; et al., 89e:86006**
Goncharskiĭ, A. V. *see* **Bakushinskiĭ, A. B.; et al.**, (Not in MR)
Haario, H. (*with* Somersalo, E.) The Backus-Gilbert method revisited: background, implementation and examples. **89h:65221**
— *see also* **Theory and applications of inverse problems, 89c:00029**
Isaaks, E. H. (*with* Srivastava, R. Mohan) Spatial continuity measures for probabilistic and deterministic geostatistics. **89d:86010**
Journel, A. G. New distance measures: the route toward truly non-Gaussian geostatistics. **89d:86011**
Jung, K. (*with* Noye, John) A spectral method of determining depth variations of currents in a two-layer stratified sea. **89d:86003**
Khokhryakova, M. M. *see* **Strakhov, V. N.; et al.**, (Not in MR)
Kim, V. F. ★ Две неявные схемы для численного решения задач баротропной атмосферы. (Russian) [Two implicit schemes for the numerical solution of barotropic atmosphere problems] **89f:86012**
Knizhnerman, L. A. *see* **Druskin, V. L., 89m:86016**
Kobrunov, A. I. On a theory of the interpretation of gravimetric data for layered media (uniform optimization). (Russian) **89j:86005**
Levin, Zev *see* **Feingold, Graham; et al., 89k:86010**
Marchuk, G. I. (*with* Dymnikov, V. P.; Zalesnyĭ, V. B.) ★ Математические модели в геофизической гидродинамике и численные методы их реализации. (Russian) [Mathematical models in geophysical hydrodynamics and numerical methods for their realization] **89f:86001**
— (*with* Sarkisyan, A. S.) ★ Mathematical modelling of ocean circulation. **89i:86002**
— (*with* Sarkisyan, A. S.) ★ Математическое моделирование циркуляции океана. (Russian) [Mathematical modeling of oceanic circulation] **89m:86003**
Nikonova, F. I. *see* **Tsirul′skiĭ, A. V.; et al., 89k:86006**
Norbury, John Stable prediction of complicated dynamics with application to weather forecasting. **89f:65135**
Noye, John Finite difference methods for solving the one-dimensional transport equation. **89a:76003**
— Time-splitting the one-dimensional transport equation. **89a:76004**
— *see also* **Jung, K., 89d:86003**
Ovrutskiĭ, I. G. *see* **Strakhov, V. N.; et al., 89m:86018**
Ramm, A. G. Numerical method for solving 3D inverse problems of geophysics. **89j:86003**
Sarkisyan, A. S. *see* **Marchuk, G. I., 89i:86002** *and* **89m:86003**
Scales, John A. (*with* Gersztenkorn, Adam; Treitel, Sven) Fast l_p solution of large, sparse, linear systems: application to seismic travel time tomography. **89d:86006**
Shishkin, S. L. Solution of large systems of stochastic inequalities in geoindication modeling. (Russian) **89a:86007**
Shutts, G. J. *see* **Cullen, M. J. P., 89e:86005**
Somersalo, E. *see* **Haario, H., 89h:65221**
Srivastava, R. Mohan *see* **Isaaks, E. H., 89d:86010**
Stacey, Richard Improved transparent boundary formulations for the elastic-wave equation. **89m:86013**
Stepanova, L. D. *see* **Bakushinskiĭ, A. B.; et al.**, (Not in MR)
Strakhov, V. N. (*with* Efimov, A. B.) Computations of geopotential fields. (Russian) **89k:86005**
— (*with* Tokar′, L. M.; Ovrutskiĭ, I. G.; Entin, V. A.) Transformations of potential fields on the basis of a regularized approximation by algebraic polynomials. (Russian) **89m:86018**
— (*with* Efimov, A. B.; Khokhryakova, M. M.) Methods for the synthesis of series in spherical functions that represent elements of potential geodesic fields. (Russian) (Not in MR)
Tokar′, L. M. *see* **Strakhov, V. N.; et al., 89m:86018**
Treitel, Sven *see* **Scales, John A.; et al., 89d:86006**
Tsirul′skiĭ, A. V. (*with* Nikonova, F. I.; Fel′dman, S. I.) Numerical solutions of direct problems in gravimetry for complex layered media. (Russian) **89k:86006**
Tzivion, Shalva *see* **Feingold, Graham; et al., 89k:86010**
Walden, A. T. A comparison of stochastic gradient and minimum entropy deconvolution algorithms. (French and German summaries) **89i:94012**
Zalesnyĭ, V. B. *see* **Marchuk, G. I.; et al., 89f:86001**

Items listed otherwise than by author

Helsinki ★ Theory and applications of inverse problems. **89c:00029**
Symposium:
Theory and Applications of Inverse Problems ★ Theory and applications of inverse problems. **89c:00029**
Theory and applications of inverse problems ★ Theory and applications of inverse problems. **89c:00029**

86A05 Hydrology, hydrography, oceanography [see also 76B15, 76B20, 76B25, 76C15, 76E20, 76Q05, 76Rxx, 76U05]

Astrakhantsev, G. P. (*with* Rukhovets, L. A.) A discrete hydrothermodynamic model of climatic circulation of a deep lake. (Russian) **89g:86001**
Bownds, John M. A formal solution to a classical initial-boundary value problem in groundwater hydraulics. **89j:86002**
Bugrov, A. G. On the theory of sound propagation in a quasistratified ocean. (Russian) **89h:86003**
Chernenko, I. V. *see* **Chernousenko, V. M.; et al., 89h:86004**
Chernousenko, V. M. (*with* Chernenko, I. V.; Chernyshenko, S. V.) The dynamics of two-dimensional vortex motion. **89h:86004**
Chernyshenko, S. V. *see* **Chernousenko, V. M.; et al., 89h:86004**
Dai, H. H. *see* **Jeffrey, A., 89m:86002**
(Egorova, L. I.) *see* **Marchuk, G. I., 89i:86002**
Hajnal, J. V. *see* **Nye, J. F.; et al., 89e:86004**
Hanawa, Kimio *see* **Mitsudera, Humio, 89k:86001**
Hannay, J. H. *see* **Nye, J. F.; et al., 89e:86004**
Hirst, Anthony C. Slow instabilities in tropical ocean basin—global atmosphere models. **89f:86002**
Isaev, G. V. Self-similar parametrization of the stationary baroclinic layer of the ocean in large-scale anticyclonic rotations. (Russian) **89a:86003**
Janowitz, Gerald S. *see* **Zhang, Qing Hua; et al.**, (Not in MR)
Jeffrey, A. (*with* Dai, H. H.) On the reflection of a solitary wave at a sloping beach: analytical results. **89m:86002**
Jung, K. (*with* Noye, John) A spectral method of determining depth variations of currents in a two-layer stratified sea. **89d:86003**
Kohler, Werner E. Reflection from a one-dimensional, totally refracting random multilayer. II. Internal field statistics. **89e:86003**
Kon′shin, V. N. (*with* Shapiro, G. I.) Evolution of two-dimensional Rossby solitons, taking into account the effects of finite amplitude. (Russian) (Not in MR)
Ling, Guo Can (*with* Ting, Lu) Two-time scales inner solutions and motion of a geostrophic vortex. **89f:86003**
Lu, Chun Qing (*with* Troy, William C.) The behavior of solutions of a nonlinear boundary layer equation. **89i:86001**
Marchuk, G. I. (*with* Sarkisyan, A. S.) ★ Mathematical modelling of ocean circulation. **89i:86002**
— (*with* Sarkisyan, A. S.) ★ Математическое моделирование циркуляции океана. (Russian) [Mathematical modeling of oceanic circulation] **89m:86003**
Mitsudera, Humio (*with* Hanawa, Kimio) Frictional coastal trapped waves in a two-layered ocean. **89k:86001**
Myrhaug, Dag A note on the bottom shear stress in oscillatory planetary boundary layer flow. (Not in MR)
Needham, D. J. A simple model describing the tidal flow in an alluvial river. **89f:86004**

Noye, John (*with* Walsh, P. J.) Wind effects on elongated lakes and lagoons. (*see* **89b:00021**)

— *see also* **Jung, K., 89d:86003**

Nye, J. F. (*with* Hajnal, J. V.; Hannay, J. H.) Phase saddles and dislocations in two-dimensional waves such as the tides. **89e:86004**

Pietrafesa, Leonard J. *see* **Zhang, Qing Hua; et al.**, (Not in MR)

Rukhovets, L. A. *see* **Astrakhantsev, G. P., 89g:86001**

Saint-Guily, Bernard Mouvements inertiels libres dans un volume fluide en rotation. (English summary) [Free inertial motions in a rotating fluid] **89i:86003**

Sarkisyan, A. S. *see* **Marchuk, G. I., 89i:86002** *and* **89m:86003**

Shapiro, G. I. *see* **Kon′shin, V. N.**, (Not in MR)

Sun, Fu Statistical distributions of wave characteristics for 3-dimensional sea waves. **89m:86004**

Sutyrin, G. G. Motion of an intense vortex on a rotating globe. **89k:86002**

Ting, Lu *see* **Ling, Guo Can, 89f:86003**

Troy, William C. *see* **Lu, Chun Qing, 89i:86001**

Volosov, V. M. (*with* Zhdanov, M. A.) Baroclinic topographic Rossby waves. (Russian) **89f:86005**

Walsh, P. J. *see* **Noye, John**, (**89b:00021**)

Zhang, Qing Hua (*with* Pietrafesa, Leonard J.; Janowitz, Gerald S.) Interaction between estuarine plumes and coastal waters. (Not in MR)

Zhdanov, M. A. *see* **Volosov, V. M., 89f:86005**

Zimin, N. Ye. Effect of large-scale orography in excitation and maintenance of long-period oscillations in a simple quasigeostrophic model. **89i:86004**

Items with secondary classifications in 86A05

Abdullaev, S. S. (*with* Zaslavskiĭ, G. M.) Dynamics and transverse drift of rays in moving inhomogeneous media. **89c:76087**

Arst, H. (*with* Soomer, V.) Numerical integration of the heat equation on uniform grids for determining the daily change in temperature of the surface layer of a sea. (Russian. English summary) **89a:65131**

Bamberger, A. (*with* Engquist, Björn; Halpern, Laurence; Joly, Patrick) Parabolic wave equation approximations in heterogenous media. **89h:35225**

— (*with* Engquist, Björn; Halpern, Laurence; Joly, Patrick) Higher order paraxial wave equation approximations in heterogeneous media. **89h:35226**

Barcilon, Victor (*with* Constantin, Peter; Titi, E. S.) Existence of solutions to the Stommel-Charney model of the Gulf Stream. **89k:35241**

Benilov, E. S. (*with* Pelinovskiĭ, E. N.) Scattering of internal waves in a current above a nonuniform bottom. **89j:76030**

Churilov, S. M. (*with* Shukhman, I. G.) The nonlinear development of disturbances in a zonal shear flow. **89m:76041**

Collins, D. A. (*with* Maslowe, S. A.) Vortex pairing and resonant wave interactions in a stratified free shear layer. **89m:76038**

Constantin, Peter *see* **Barcilon, Victor; et al., 89k:35241**

Crisciani, F. Some a priori properties of unstable flows in the homogeneous model of the ocean. (Italian and Russian summaries) **89i:76053**

van Duijn, C. J. (*with* Zhang, Hong Fei) Regularity properties of a doubly degenerate equation in hydrology. **89f:35116**

Dymnikov, V. P. *see* **Marchuk, G. I.; et al., 89f:86001**

Engquist, Björn *see* **Bamberger, A.; et al., 89h:35225** *and* **89h:35226**

Felsen, Leopold B. *see* **Lu, I. T., 89c:76092** *and* **Ishihara, T., 89f:76069**

Fiedler, Brian H. Conditions for laminar flow in geophysical vortices. **89m:76040**

Foda, Mostafa A. (*with* Mei, Chiang C.) Subharmonic generation of edge waves by nonuniform incident waves. **89c:76028**

Fomicheva, T. G. *see* **Kononenko, G. N., 89h:76037**

Gabdullin, R. R. (*with* Shatov, A. K.) Diffraction of internal waves by a half plane that is parallel to the free surface of a fluid. (Russian) **89a:76053**

Gilbert, Robert P. Transmutations occurring in ocean acoustics. **89c:76088**

— (*with* Xu, Yong Zhi; Wood, David H.) Construction of approximations to acoustic Green's functions for nonhomogeneous oceans using transmutation. **89i:76081**

Golin′ko, V. I. Coastal run-up of a tsunami propagating in a bay. **89c:76031**

Goutal, N. Résolution des équations de Saint-Venant en régime transcritique par une méthode d'éléments finis: application aux bancs découvrants. (English summary) [Finite-element solution of the shallow-water Saint-Venant equations for a transcritical flow: application to the intertidal flat] **89c:76032**

Gragg, Robert F. The total reflection of a compact wave group: long-range transmission in a waveguide. **89i:76082**

Grimshaw, R. The modulation of short gravity waves by long waves or currents. **89f:76022**

Halpern, Laurence *see* **Bamberger, A.; et al., 89h:35225** *and* **89h:35226**

Hoàng Văn Tao The method of the small parameter in problems on the collapse of a dam. (Russian. English summary) **89c:76041**

Holm, Darryl D. Hamiltonian structure for two-dimensional hydrodynamics with nonlinear dispersion. **89f:76023**

Iroshnikov, R. S. On the free evolution of spectra of two-dimensional turbulence in a single-layer ocean with a free surface on the β-plane. (Russian) **89f:76056**

Ishihara, T. (*with* Felsen, Leopold B.) Hybrid (ray)-(parabolic equation) analysis of propagation in ocean acoustic guiding environments. **89f:76069**

Joly, Patrick *see* **Bamberger, A.; et al., 89h:35225** *and* **89h:35226**

Kaul, Upender K. Do large structures control their own growth in a mixing layer? An assessment. **89m:76047**

Kawahara, M. (*with* Kodama, Toshio; Kinoshita, Masataka) Finite element method for tsunami wave propagation analysis considering the open boundary condition. **89e:76011**

Kinoshita, Masataka *see* **Kawahara, M.; et al., 89e:76011**

Kodama, Toshio *see* **Kawahara, M.; et al., 89e:76011**

Kononenko, G. N. (*with* Fomicheva, T. G.) A numerical algorithm for solving problems of geochemical hydrodynamics. (Russian) **89h:76037**

Kundu, P. K. *see* **Mandal, B. N., 89c:76034**

Lee, Ding (*with* McDaniel, S. T.) Ocean acoustic propagation by finite difference methods. **89b:65204**

Lu, I. T. (*with* Felsen, Leopold B.) Range-dependent canonical solutions for shallow ocean acoustics. **89c:76092**

Mandal, B. N. (*with* Kundu, P. K.) A note on an integral equation in the theory of water waves. **89c:76034**

Marchant, T. R. (*with* Roberts, A. J.) A variational approach to the problem of deep-water waves forming a circular caustic. **89m:76018**

Marchuk, G. I. (*with* Dymnikov, V. P.; Zalesnyĭ, V. B.) ★ Математические модели в геофизической гидродинамике и численные методы их реализации. (Russian) [Mathematical models in geophysical hydrodynamics and numerical methods for their realization] **89f:86001**

Maslowe, S. A. *see* **Collins, D. A., 89m:76038**

McDaniel, S. T. *see* **Lee, Ding, 89b:65204**

Mei, Chiang C. *see* **Foda, Mostafa A., 89c:76028**

Nikulin, V. V. A conical vortex flow that is induced by tangential stresses on a flat free surface. (Russian) **89k:76034**

Ostrovskiĭ, L. A. (*with* Troitskaya, Yu. I.) Model for turbulent transfer and turbulence dynamics in a stratified shear flow. **89j:76055**

Pelinovskiĭ, E. N. *see* **Benilov, E. S., 89j:76030**

Roberts, A. J. *see* **Marchant, T. R., 89m:76018**

(Rodin, E. Y.) *see* **Lee, Ding, 89b:65204**

Santosa, Fadil (*with* Symes, W. W.) High-frequency perturbational analysis of the surface point-source response of a layered fluid. **89e:76074**

Serrano, Sergio E. (*with* Unny, T. E.) Boundary element solution of the two-dimensional groundwater flow equation with stochastic free surface boundary condition. **89a:76007**

Shatov, A. K. *see* **Gabdullin, R. R., 89a:76053**

Shukhman, I. G. *see* **Churilov, S. M., 89m:76041**

Soomer, V. *see* **Arst, H., 89a:65131**

Sukhonosov, V. I. Solvability of problems of the dynamics of the atmosphere and the ocean in a spherical layer of the Earth. (Russian) **89d:86016**

Symes, W. W. *see* **Santosa, Fadil, 89e:76074**

Titi, E. S. *see* **Barcilon, Victor; et al., 89k:35241**

Tôn, Bùi An Water waves over a sloping beach. **89b:35140**

Troitskaya, Yu. I. *see* **Ostrovskiĭ, L. A., 89j:76055**

Unny, T. E. *see* **Serrano, Sergio E., 89a:76007**

Wen, Xian Yun (*with* Wu, Chi Gong) Boundary integral equations. Inverse method for free surface gravity flows. **89f:76027**

Wood, David H. *see* **Gilbert, Robert P.; et al., 89i:76081**

Wu, Chi Gong *see* **Wen, Xian Yun, 89f:76027**

Xu, Yong Zhi *see* **Gilbert, Robert P.; et al., 89i:76081**

Zalesnyĭ, V. B. *see* **Marchuk, G. I.; et al., 89f:86001**

Zaslavskiĭ, G. M. *see* **Abdullaev, S. S., 89c:76087**

Zhang, Hong Fei *see* **van Duijn, C. J., 89f:35116**

86A10 Meteorology [see also 76Bxx, 76C15, 76E20, 76N15, 76Q05, 76Rxx, 76U05, 76V05]

Bannon, Peter R. (*with* Zehnder, Joseph A.) Baroclinic flow over a mountain ridge. **89m:86005**

Barker, E. *see* **Franke, Richard; et al., 89e:86006**

Bell, M. J. (*with* White, Andrew Arthur) The stability of internal baroclinic jets: some analytical results. (Not in MR)

Browning, G. (*with* Kreiss, Heinz-Otto) Numerical problems connected with weather prediction. **89a:86004**

Cullen, M. J. P. (*with* Shutts, G. J.) Numerical modelling of balanced atmospheric flow. **89e:86005**

Cushman-Roisin, B. *see* **Heil, Wolfgang; et al., 89i:86005**

Essebbar, B. (*with* Le Breton, Alain) Sur un modèle de série chronologique vectorielle à composantes binaires en vue d'applications en climatologie. (English summary) [A vector time series model with binary components with a view to applications in climatology] **89m:86006**

Franke, Richard (*with* Barker, E.; Goerss, J.) The use of observed data for the initial-value problem in numerical weather prediction. **89e:86006**

Goerss, J. *see* **Franke, Richard; et al., 89e:86006**

Heil, Wolfgang (*with* Cushman-Roisin, B.; O'Brien, J. J.) Realizing two-dimensional, continuous directed fields by vector fields and an algorithm to remove dichotomous ambiguity in a discrete field. **89i:86005**

Kreiss, Heinz-Otto *see* **Browning, G., 89a:86004**

Laprise, R. (*with* Peltier, W. R.) The linear stability of nonlinear mountain waves: implications for the understanding of severe downslope windstorms. **89m:86007**

— (*with* Peltier, W. R.) The structure and energetics of transient eddies in a numerical simulation of breaking mountain waves. **89m:86008**

— (*with* Peltier, W. R.) On the structural characteristics of steady finite-amplitude mountain waves over bell-shaped topography. **89m:86009**

Le Breton, Alain *see* **Essebbar, B., 89m:86006**

Le Dimet, François-Xavier Quelques problèmes mathématiques en météorologie. [Some mathematical problems in meteorology] **89b:86001**

Moore, G. W. Kent (*with* Peltier, W. R.) Nonseparable baroclinic instability. I. Quasi-geostrophic dynamics. **89m:86010**

O'Brien, J. J. *see* **Heil, Wolfgang; et al., 89i:86005**

Peltier, W. R. *see* **Laprise, R., 89m:86007; 89m:86008; 89m:86009** *and* **Moore, G. W. Kent, 89m:86010**

Shutts, G. J. *see* **Cullen, M. J. P., 89e:86005**

White, Andrew Arthur *see* **Bell, M. J.**, (Not in MR)

Zehnder, Joseph A. *see* **Bannon, Peter R., 89m:86005**

Items with secondary classifications in 86A10

Chang, Wei (*with* Guo, Qing Yu) Fuzzy recognition and its application in long-range weather forecasting. (Chinese. English summary) **89g:03079**

Chynoweth, S. (*with* Porter, David; Sewell, M. J.) The parabolic umbilic and atmospheric fronts. **89i:58010**

Fiedler, Brian H. Conditions for laminar flow in geophysical vortices. **89m:76040**

Guo, Qing Yu *see* **Chang, Wei, 89g:03079**

Norbury, John Stable prediction of complicated dynamics with application to weather forecasting. **89f:65135**

Pichler, Helmut ★ Dynamik der Atmosphäre. (German) [Dynamics of the atmosphere] **89a:86011**

Porter, David *see* **Chynoweth, S.; et al., 89i:58010**

Sewell, M. J. *see* **Chynoweth, S.; et al., 89i:58010**

Sonechkin, D. M. Estimation of the number of degrees of freedom of large-scale atmospheric processes. **89i:86016**

Tikilyaĭnen, A. A. On a problem connected with the theory of planetary waves. (Russian) **89d:76013**

86A15 Seismology [see also 73Dxx, 73Fxx, 73Mxx, 73Nxx, 73Q05]

Alekseev, A. S. (*with* Lavrent′ev, M. M.; Romanov, V. G.; Romanov, M. E.) Theoretical and numerical questions in seismic tomography. (Russian) (*see* **89h:86005**)

Berendt, G. *see* **Kirsch, Andreas; et al., 89m:86011**

Beylkin, G. *see* **Chang, Weita; et al., 89c:86001** *and* **Burridge, R., 89f:86006**

Bube, Kenneth P. The effect of discontinuities on the order of convergence of numerical inversion methods. **89d:86004**

Burridge, R. (*with* Beylkin, G.) On double integrals over spheres. **89f:86006**

— (*with* Papanicolaou, George C.; White, Benjamin S.) One-dimensional wave propagation in a highly discontinuous medium. **89g:86002**

Carrion, Philip *see* **Chang, Weita; et al., 89c:86001**

Chang, Weita (*with* Carrion, Philip; Beylkin, G.) Wavefront sets of solutions to linearised inverse scattering problems. **89c:86001**

Dunin, S. Z. (*with* Maksimov, G. A.) Propagation of Rayleigh waves in dissipative media. A linear source. **89f:86007**

Foster, Douglas J. (*with* Mosher, Charles C.) Multidimensional inversion of seismic data. **89d:86005**

Gao, Long Sheng *see* **Shang, Tie Liang, 89m:86012**

Gersztenkorn, Adam *see* **Scales, John A.; et al., 89d:86006**

Hron, F. (*with* Zheng, B. S.) On the role of higher order terms in asymptotic ray theory. (*see* **89f:35007**)

Kirsch, Andreas (*with* Schomburg, B.; Berendt, G.) The Backus-Gilbert method. **89m:86011**

Kosov, V. V. *see* **Urupov, A. K.; et al., 89m:86014**

Kostyukevich, A. S. *see* **Starostenko, V. I.; et al.,** (Not in MR)

Kozlenko, V. G. *see* **Starostenko, V. I.; et al.,** (Not in MR)

Krutin, V. N. (*with* Myasnikov, V. P.; Topalè, V. I.) Propagation of Rayleigh waves in a lithosphere model with different moduli. (Russian) **89k:86003**

Lavrent′ev, M. M. *see* **Alekseev, A. S.; et al.,** (**89h:86005**) *and* **Mathematical modeling in geophysics, 89h:86005**

Maksimov, G. A. *see* **Dunin, S. Z., 89f:86007**

Mosher, Charles C. *see* **Foster, Douglas J., 89d:86005**

Myasnikov, V. P. *see* **Krutin, V. N.; et al., 89k:86003**

Papanicolaou, George C. *see* **Burridge, R.; et al., 89g:86002**

Ramm, A. G. Numerical method for solving 3D inverse problems of geophysics. **89j:86003**

Romanov, M. E. *see* **Alekseev, A. S.; et al.,** (**89h:86005**)

Romanov, V. G. *see* **Alekseev, A. S.; et al.,** (**89h:86005**)

Saastamoinen, P. R. On a seismic surface wave tomography technique in a laterally slowly varying waveguide. (*see* **89c:00029**)

Santosa, Fadil (*with* Symes, W. W.) Reconstruction of blocky impedance profiles from normal-incidence reflection seismograms which are band-limited and miscalibrated. **89c:86002**

Sarwar, A. K. M. Some closed-form solutions of the impedance inverse problem. **89c:86003**

Scales, John A. (*with* Gersztenkorn, Adam; Treitel, Sven) Fast l_p solution of large, sparse, linear systems: application to seismic travel time tomography. **89d:86006**

Schomburg, B. *see* **Kirsch, Andreas; et al., 89m:86011**

Shang, Tie Liang (*with* Gao, Long Sheng) Transportation theory of multiple scattering and its application to seismic coda waves of impulse source. **89m:86012**

Sharifullin, R. G. *see* **Urupov, A. K.; et al., 89m:86014**

Somersalo, E. On the solutions of the one-dimensional wave equation with complex potential. **89i:86006**

Stacey, Richard Improved transparent boundary formulations for the elastic-wave equation. **89m:86013**

Starostenko, V. I. (*with* Kostyukevich, A. S.; Kozlenko, V. G.) Complex interpretation of gravimetric and seismometric data. I. Principles and methods. (Russian) (Not in MR)

Symes, W. W. *see* **Santosa, Fadil, 89c:86002**

Tarantola, Albert Inversion of elastic seismic reflection data. **89j:86004**

Topalè, V. I. *see* **Krutin, V. N.; et al., 89k:86003**

Treitel, Sven *see* **Scales, John A.; et al., 89d:86006**

Urupov, A. K. (*with* Sharifullin, R. G.; Kosov, V. V.) Continuation of seismic fields. (Russian) **89m:86014**

Wang, Jia Song The model and method of the minimization of the L_1 norm in the seismic inverse problem. (Chinese. English summary) **89i:86007**

White, Benjamin S. *see* **Burridge, R.; et al., 89g:86002**

Zheng, B. S. *see* **Hron, F.,** (**89f:35007**)

Items listed otherwise than by author

Mathematical modeling in geophysics ★ Математическое моделирование в геофизике. (Russian) [Mathematical modeling in geophysics] **89h:86005**

Items with secondary classifications in 86A15

Baev, A. V. On the solution of an inverse problem of the scattering of a plane wave by a multilayered inhomogeneous medium. **89e:73014**

Bamberger, A. (*with* Engquist, Björn; Halpern, Laurence; Joly, Patrick) Parabolic wave equation approximations in heterogenous media. **89h:35225**

— (*with* Engquist, Björn; Halpern, Laurence; Joly, Patrick) Higher order paraxial wave equation approximations in heterogeneous media. **89h:35226**

Belokon′, A. V. (*with* Nasedkin, A. V.) Waves caused by moving loads in an isotropic layer inhomogeneous through the thickness. **89d:73014**

Berendt, G. *see* **Schomburg, B., 89h:86002**

Carcione, J. M. (*with* Kosloff, D.; Kosloff, R.) Wave-propagation simulation in an elastic anisotropic (transversely isotropic) solid. **89h:73018**

Carroll, Robert Wayne (*with* Raphael, Louise) Some inverse problems with spectral limitations on data. **89k:35248**

England, Roland *see* **Ize, Jorge; et al., 89g:35027**

Engquist, Björn *see* **Bamberger, A.; et al., 89h:35225** *and* **89h:35226**

Frazer, L. Neil *see* **McCoy, John J., 89h:35367**

Gorskiĭ, N. M. (*with* Mikhaĭlenko, B. G.) ★ Решение пространственных задач теории распространения сейсмических волн в скоростях и напряжениях. (Russian) [Solution of spatial problems in the theory of the propagation of seismic waves in velocities and stresses] **89j:73040**

Gusyakov, V. K. Mathematical modeling of tsunami generation. (Russian) (*see* **89h:86005**)

Haario, H. (*with* Somersalo, E.) A regularization method for integral equations of the first kind. **89g:45002**

Halpern, Laurence *see* **Bamberger, A.; et al., 89h:35225** *and* **89h:35226**

de Hoop, Adrianus T. Acoustic radiation from impulsive sources in a layered fluid. **89h:76031**

Ito, H. M. (*with* Kotani, Shinichi; Yokota, T.) Size distribution of fractured areas in one-dimensional systems. **89h:73037**

Ize, Jorge (*with* England, Roland; Sabina, Federico J.) Diffraction of waves by inhomogeneous obstacles. **89g:35027**

Joly, Patrick *see* **Bamberger, A.; et al., 89h:35225** *and* **89h:35226**

Kazakevich, G. I. Extension of an explosion cavity in a geomaterial with very rapidly changing properties. (Russian) (Not in MR)

Kosloff, D. *see* **Carcione, J. M.; et al., 89h:73018**

Kosloff, R. *see* **Carcione, J. M.; et al., 89h:73018**

Kotani, Shinichi *see* **Ito, H. M.; et al., 89h:73037**

Lamm, Patricia K. (*with* Murphy, K. A.) Estimation of discontinuous coefficients and boundary parameters for hyperbolic systems. **89d:35110**

Lovera, Oscar Mario (*with* Santos, Juan Enrique) Numerical methods for a model for wave propagation in composite anisotropic media. (French summary) **89d:73012**

McCoy, John J. (*with* Frazer, L. Neil) Pseudodifferential operators, operator orderings, marching algorithms and path integrals for one-way equations. **89h:35367**

Mikhaĭlenko, B. G. *see* **Gorskiĭ, N. M., 89j:73040**

Murphy, K. A. *see* **Lamm, Patricia K., 89d:35110**

Nasedkin, A. V. *see* **Belokon′, A. V., 89d:73014**

Nikolaevskiĭ, V. N. Solitary waves and earthquakes. (Russian) (*see* **89j:73002**)

Papanicolaou, George C. Waves in one-dimensional random media. **89k:82057**

Pestov, L. N. (*with* Sharafutdinov, V. A.) Integral geometry of tensor fields on a manifold of negative curvature. **89k:53066**

(Pyankova, Tamara M.) *see* **Zhdanov, M. S., 89a:86008**

Rakesh (*with* Symes, W. W.) On the relation between the wavefront sets of the scatterer and the data. **89g:73018**

Raphael, Louise *see* **Carroll, Robert Wayne, 89k:35248**

Sabina, Federico J. *see* **Ize, Jorge; et al., 89g:35027**

Sacks, Paul E. The inverse problem for a weakly inhomogeneous two-dimensional acoustic medium. **89g:73019**

Santos, Juan Enrique *see* **Lovera, Oscar Mario, 89d:73012**

Santosa, Fadil (*with* Symes, W. W.) Computation of the Hessian for least-squares solutions of inverse problems of reflection seismology. **89d:86001**

Schomburg, B. (*with* Berendt, G.) On the convergence of the Backus-Gilbert algorithm. **89h:86002**

Sharafutdinov, V. A. *see* **Pestov, L. N., 89k:53066**

Sochacki, James Absorbing boundary conditions for the elastic wave equations. **89h:73021**

Somersalo, E. *see* **Haario, H., 89g:45002**

Symes, W. W. *see* **Santosa, Fadil, 89d:86001** *and* **Rakesh, 89g:73018**

Teymur, M. Nonlinear modulation of Love waves in a compressible hyperelastic layered half space. **89i:73022**

Timerkaev, V. S. A method for estimating the power of a possible action on the stability of complex objects. (Russian. Tajiki summary) **89d:86017**

Wu, Ru-Shan Representation integrals for elastic wave propagation containing either the displacement term or the stress term alone. **89j:73028**

Yokota, T. *see* **Ito, H. M.; et al., 89h:73037**

Zhdanov, M. S. ★ Integral transforms in geophysics. **89a:86008**

86A20 Potentials, prospecting [see also 76S05, 76W05]

An, Hyeong Keon *see* **Zemanian, A. H., 89b:86002**

Bakushinskiĭ, A. B. (*with* Goncharskiĭ, A. V.; Stepanova, L. D.) Iterative regularizable algorithms for solving three-dimensional inverse problems of gravimetry. (Russian) (Not in MR)

Balk, P. I. An attempt at the automatization of the solution of theoretical problems of gravimetry in parametric classes of interpretation. (Russian) **89c:86004**

Barashkov, A. S. Low frequency asymptotic behavior of the solution of a three-dimensional MTS problem. (Russian) **89m:86015**

Bárdossy, A. Notes on the robustness of the kriging system. **89d:86007**

— (*with* Bogardi, I.; Kelly, W. E.) Imprecise (fuzzy) information in geostatistics. **89f:86008**

Bogardi, I. *see* **Bárdossy, A.; et al., 89f:86008**

Borgman, Leon E. New advances in methodology for statistical tests useful in geostatistical studies. **89d:86008**

Chapron, S. *see* **Storey, L. R. O., 89f:86009**

Cressie, Noel Spatial prediction and ordinary kriging. **89d:86009**

Dermanis, Athanasios The Bruns formula in three dimensions. **89a:86005**

Dimov, I. *see* **Dimova, V. I., 89e:86007**

Dimova, V. I. (*with* Dimov, I.) Inverse and ill-posed problems in stochastic geomechanics. (Bulgarian. English and Russian summaries) **89e:86007**

Druskin, V. L. (*with* Knizhnerman, L. A.) A method for solving direct problems of electrical logging and prospecting with direct current. (Russian) **89m:86016**

Efimov, A. B. *see* **Strakhov, V. N., 89k:86005** *and* (Not in MR)

Entin, V. A. *see* **Strakhov, V. N.; et al., 89m:86018**

Farzan, Ruszlán On approximate solution of one integral equation in electromagnetic sounding. (*see* **89b:65012**)

Fel′dman, S. I. *see* **Tsirul′skiĭ, A. V.; et al., 89k:86006**

Gluzberg, V. E. (*with* Shafarenko, V. A.) A point-source field of direct current in a randomly layered medium. (Russian) **89m:86017**

Goncharskiĭ, A. V. *see* **Bakushinskiĭ, A. B.; et al.**, (Not in MR)

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Isaaks, E. H. (*with* Srivastava, R. Mohan) Spatial continuity measures for probabilistic and deterministic geostatistics. **89d:86010**

Journel, A. G. New distance measures: the route toward truly non-Gaussian geostatistics. **89d:86011**

Kapanadze, D. V. Uniqueness of the solution of an inverse problem of potential theory. (Russian. English and Georgian summaries) **89i:86008**

Kelly, W. E. *see* **Bárdossy, A.; et al., 89f:86008**

Khokhryakova, M. M. *see* **Strakhov, V. N.; et al.**, (Not in MR)

Knizhnerman, L. A. *see* **Druskin, V. L., 89m:86016**

Kobrunov, A. I. On a theory of the interpretation of gravimetric data for layered media (uniform optimization). (Russian) **89j:86005**

Mamonov, A. V. Solution of a two-dimensional inverse problem in gravitational prospecting from data on external and internal fields. (Russian) **89k:86004**

Marchenko, A. N. On the mathematical representation of time-dependent parameters in some problems of global geodynamics. I. Theoretical foundations. (Russian. English summary) **89i:86009**

Nikonova, F. I. *see* **Tsirul′skiĭ, A. V.; et al., 89k:86006**

Novak, V. I. *see* **Vinokurov, V. A., 89i:86010**

Ovrutskiĭ, I. G. *see* **Strakhov, V. N.; et al., 89m:86018**

(Pyankova, Tamara M.) *see* **Zhdanov, M. S., 89a:86008**

Shafarenko, V. A. *see* **Gluzberg, V. E., 89m:86017**

Shishkin, S. L. Solution of large systems of stochastic inequalities in geoindication modeling. (Russian) **89a:86007**

Srivastava, R. Mohan *see* **Isaaks, E. H., 89d:86010**

Stepanova, L. D. *see* **Bakushinskiĭ, A. B.; et al.**, (Not in MR)

Storey, L. R. O. (*with* Chapron, S.) Conditions for the existence and uniqueness of solutions to a constrained linear inverse problem. **89f:86009**

Strakhov, V. N. (*with* Efimov, A. B.) Computations of geopotential fields. (Russian) **89k:86005**

— Smoothing and transformations of observed values of potential fields by the method of "fractional" regularization. (Russian) **89j:86006**

— (*with* Tokar′, L. M.; Ovrutskiĭ, I. G.; Entin, V. A.) Transformations of potential fields on the basis of a regularized approximation by algebraic polynomials. (Russian) **89m:86018**

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Tan, Yong Ji Boundary homogenization of an inverse nonlocal elliptic boundary value problem. **89m:86019**

Tokar′, L. M. *see* **Strakhov, V. N.; et al., 89m:86018**

Troshkov, G. A. Representation of geophysical potential vector fields in a complex three-dimensional space. (Russian) **89m:86020**

Tsirul′skiĭ, A. V. (*with* Nikonova, F. I.; Fel′dman, S. I.) Numerical solutions of direct problems in gravimetry for complex layered media. (Russian) **89k:86006**

Vinokurov, V. A. (*with* Novak, V. I.) A minimal convex gravitating body. (Russian) **89i:86010**

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Zhdanov, M. S. ★ Integral transforms in geophysics. **89a:86008**

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Items with secondary classifications in 86A20

Brodskiĭ, M. A. (*with* Strakhov, V. N.) In the class of homogeneous polyhedra homeomorphic to a ball, the solution of the inverse Newtonian potential problem is unique. (Russian) **89d:52014**

Chen, Yung Ming Parallelism by hierarchy of GPST inversion algorithm for elastic wave equation. **89b:65221**

David, Michel *see* **Marcotte, D., 89h:86001**

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Mathematical modeling in geophysics ★ Математическое моделирование в геофизике. (Russian) [Mathematical modeling in geophysics] **89h:86005**

86A25 Geo-electricity and geomagnetism [see also 78A25]

Barashkov, A. S. Solution of a three-dimensional problem for a fundamental MTS model. (Russian) **89k:86007**

Ito, H. M. Stochastic disk dynamo as a model of reversals of the earth's magnetic field. **89j:86007**

Items with secondary classifications in 86A25

Ershov, S. V. (*with* Malinetskiĭ, G. G.; Ruzmaĭkin, A. A.) Generalized model of a two-disk dynamo. (Russian) **89b:58149**

Fearn, D. R. (*with* Roberts, P. H.; Soward, A. M.) Convection, stability and the dynamo. **89i:76095**

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Ruzmaĭkin, A. A. *see* **Ershov, S. V.; et al., 89b:58149**

Soward, A. M. *see* **Fearn, D. R.; et al., 89i:76095**

Tarlowski, C. Z. *see* **Koch, I., 89e:65151**

86A30 Geodesy, mapping problems

Aleksidze, M. A. ★ Приближенные методы решения прямых и обратных задач гравиметрии. (Russian) [Approximate methods for solving direct and inverse problems of gravimetry] **89k:86008**

Engersbach, N. Great circle stereographic trajectory representation. **89e:86008**

Hofmann-Wellenhof, B. (*with* Moritz, Helmut) Introduction to spectral analysis. **89g:86003**

Moore, Wayne *see* **Zund, J. D., 89a:86010**

Moritz, Helmut Averaging two functions. **89a:86009**

— *see also* **Hofmann-Wellenhof, B., 89g:86003**

Popescu, Ioan Contributions to the generalization of the problem of adjustment by Helmert-Pranis-Pranievich groups. (Spanish. English summary) **89m:86021**

Sansò, F. Statistical methods in physical geodesy. **89i:86012**

Tscherning, C. C. Functional methods for gravity field approximation. **89f:86010**

Zund, J. D. (*with* Moore, Wayne) Hotine's conjecture in differential geodesy. **89a:86010**

Items with secondary classifications in 86A30

(Brumberg, V. A.) *see* **Soffel, Michael H., 89m:85001**

Kiselev, V. G. (*with* Yakovlev, A. F.) Some mathematical problems arising in the computer realization of geographical information systems. (Russian) **89h:92066**

Soffel, Michael H. ★ Relativity in astrometry, celestial mechanics and geodesy. **89m:85001**

Yakovlev, A. F. *see* **Kiselev, V. G., 89h:92066**

86A35 Atmospheric physics [see also 76C15, 76C20, 76E20, 76Rxx, 76U05, 76V05]

Antyufeev, V. S. (*with* Nazaraliev, M. A.) Solution of some inverse atmospheric optics problems by the Monte Carlo method. **89e:86009**

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Bell, R. C. *see* **Frederiksen, Jorgen S., 89d:86013**

Berkowicz, R. *see* **Zlatev, Zahari, 89f:86015**

Campos, L. M. B. C. On oblique Alfvén waves in a viscous and resistive atmosphere. **89e:86010**

Carnevale, G. F. *see* **Frederiksen, Jorgen S., 89f:86011**

Clark, Terry L. *see* **Balaji, V., 89k:86009**

Cox, David Roxbee (*with* Isham, Valerie) A simple spatial-temporal model of rainfall. **89b:86004**

Datsenko, N. M. (*with* Zimin, N. Ye.) Dynamic manifestations of resonant excitation of long-period fluctuations in a model with seasonal thermal forcing. **89i:86013**

Ding, Min Fang *see* **Yang, Da Sheng, 89f:86014**

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Enting, I. G. *see* **Newsam, G. N., 89i:86015**

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— *see also* **Frederiksen, C. S., 89d:86012**

Hariharan, S. I. Nonlinear acoustic wave propagation in atmosphere. **89b:86005**

Held, Isaac M. *see* **Panetta, R. Lee, 89j:86009**

Holton, James R. *see* **Yoden, Shigeo, 89k:86012**

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Huba, J. D. *see* **Drake, J. F.; et al., 89i:86014**

Isham, Valerie *see* **Cox, David Roxbee, 89b:86004**

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Kim, V. F. ★ Две неявные схемы для численного решения задач баротропной атмосферы. (Russian) [Two implicit schemes for the numerical solution of barotropic atmosphere problems] **89f:86012**

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Levin, Zev *see* **Feingold, Graham; et al., 89k:86010**

Malguzzi, P. *see* **Speranza, A., 89i:86017**

Mulbrandon, M. *see* **Drake, J. F.; et al., 89i:86014**

Nakamura, Noboru Scale selection of baroclinic instability—effects of stratification and nongeostrophy. **89j:86008**

Nazaraliev, M. A. *see* **Antyufeev, V. S., 89e:86009**

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Samrov, V. P. Hydrodynamic stability of the low-viscosity, weakly nonlinear model of the atmosphere on the f and β planes. **89h:86006**

Sokolov, A. Yu. *see* **Obraztsov, N. N., 89d:86014**

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Sukhonosov, V. I. Solvability of problems of the dynamics of the atmosphere and the ocean in a spherical layer of the Earth. (Russian) **89d:86016**

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Tzivion, Shalva *see* **Feingold, Graham; et al., 89k:86010**

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Yoden, Shigeo (*with* Holton, James R.) A new look at equatorial quasi-biennial oscillation models. **89k:86012**

Zhang, Ming *see* **Huang, Si Xun, 89m:86022** *and* **89m:86023**

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— Nonlinear interaction between the zonal flow and waves taking into account the zonal relief in a small-mode model of a barotropic fluid. (Russian) **89c:86006**

Zhu, Bao Zhen *see* **Jin, Fei Fei, 89m:86024a** *and* **89m:86024b**

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— *see also* **Datsenko, N. M., 89i:86013**

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Items with secondary classifications in 86A35

Bérces, T. *see* **Turányi, T.; et al., 89k:80029**

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Chetverushkin, B. N. *see* **Klevtsur, S. V.; et al., 89h:65166**

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— *see also* **Marchuk, G. I.; et al., 89f:86001**

Dzhashiashvili, G. N. *see* **Bolkvadze, Zh. D.; et al.**, (**89b:82003**)

Golitsyn, G. S. *see* **Boubnov, B. M., 89f:76046**

Gongadze, Yu. A. *see* **Bolkvadze, Zh. D.; et al.**, (**89b:82003**)

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Kamp, L. P. J. *see* **Miesen, R. H. M.; et al., 89i:76029**

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— *see also* **Zakharov, V. E.; et al., 89a:76024**

Nikolaĭshvili, Sh. S. *see* **Bolkvadze, Zh. D.; et al.**, (**89b:82003**)

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Skiba, Yu. N. *see* **Dymnikov, V. P., 89m:76039**

Sluijter, F. W. *see* **Miesen, R. H. M.; et al., 89i:76029**

Tikilyaĭnen, A. A. On a problem connected with the theory of planetary waves. (Russian) **89d:76013**

Tóth, J. *see* **Turányi, T.; et al., 89k:80029**

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Zalesnyĭ, V. B. *see* **Marchuk, G. I.; et al., 89f:86001**

Zlatev, Zahari Numerical treatment of some mathematical models describing long-range transport of air pollution. **89d:86002**

Zotov, V. L. A difference scheme for a set of equations of the atmosphere dynamics. **89b:65210**

86A60 Geological problems

Barndorff-Nielsen, O. E. (*with* Christiansen, C.) Erosion, deposition and size distributions of sand. **89e:86011**

Boulton, G. S. *see* **Hindmarsh, R. C. A.; et al., 89a:86013**

Christiansen, C. *see* **Barndorff-Nielsen, O. E., 89e:86011**

Farmer, C. L. The generation of stochastic fields of reservoir parameters with specified geostatistical distributions. (*see* **89j:76003**)

Fowler, A. C. Generation and creep of magma in the earth. **89k:86014**

Gire, Camille *see* **Le Mouël, Jean-Louis; et al., 89k:86015**

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Hutter, K. *see* **Hindmarsh, R. C. A.; et al., 89a:86013**

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Morland, L. W. *see* **Hindmarsh, R. C. A.; et al., 89a:86013**

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Sadler, Peter M. *see* **Strauss, David, 89i:86020**

Satsuma, Junkichi *see* **Takahashi, Daisuke, 89c:86008**

Sokolov, D. D. *see* **Molchanov, S. A.; et al., 89c:86007**

Strauss, David (*with* Sadler, Peter M.) Stochastic models for the completeness of stratigraphic sections. **89i:86020**

Takahashi, Daisuke (*with* Satsuma, Junkichi) Explicit solutions of magma equation. **89c:86008**

Thomas, Alain Structure fractale de l'architecture de champs de fractures en milieu rocheux. (English summary) [Fractal structure in architectural features of fracture fields in rocks] **89k:86016**

Items with secondary classifications in 86A60

Backus, George Isotropic probability measures in infinite-dimensional spaces. **89a:60037**

— Addendum: "Isotropic probability measures in infinite-dimensional spaces" [Proc. Nat. Acad. Sci. U.S.A. **84** (1987), no. 24, 8755–8757; MR 89a:60037]. **89m:60031**

Boender, C. G. E. (*with* Rinnooy Kan, A. H. G.; Vellekoop, A. H.) A random field model for estimating the content of soil layers. **89e:86001**

Efimov, A. B. (*with* Labutin, S. A.) Movement of a phase boundary in the Earth with a slow and smooth change in the deep heat flow. (Russian)

Huppert, Herbert E. Phase changes following the initiation of a hot turbulent flow over a cold solid surface. **89k:80017**

Labutin, S. A. *see* **Efimov, A. B.**, (Not in MR)

MacBain, John A. Inversion theory for a parameterized diffusion problem. **89f:35205**

Parrish, Rudolph S. (*with* Perdue, E. Michael) Computational methods for fitting statistical distribution models of multi-site binding equilibria. **89m:86001**

Perdue, E. Michael *see* **Parrish, Rudolph S., 89m:86001**

Reed, Martin Brian Stresses and displacements around a cylindrical cavity in soft rock. (Not in MR)

Rinnooy Kan, A. H. G. *see* **Boender, C. G. E.; et al., 89e:86001**

Vellekoop, A. H. *see* **Boender, C. G. E.; et al., 89e:86001**

Wang, Shu He The existence and uniqueness and monotonicity of the solution for the seacoast deposit problem. (Chinese. English summary) **89h:35170**

86A99 Miscellaneous topics

Arnaud, Michel *see* **Thirriot, Claude, 89j:86011**

Beale, Evelyn Martin Lansdowne Optimization methods in oil and gas exploration. (Not in MR)

Bossavit, A. (*with* Planchard, Jacques) On the dynamo effect. (Portuguese summary) **89i:86021**

Chuĭkova, N. A. On the optimal choice of Mittag-Leffler expansion parameters for a given region of observation. **89e:86012**

Cox, David Roxbee *see* **Rodriguez-Iturbe, I.; et al., 89i:86022**

Fowler, A. C. A mathematical analysis of glacier surges. **89m:86025**

Friedlander, S. Stability and waves in the Earth's fluid core. (*see* **89c:76004**)

Gizzatulina, S. M. (*with* Malinetskiĭ, G. G.; Potapov, A. B.; Ruzmaĭkin, A. A.; Rukavishnikov, V. D.) The dimension of a geodynamic attractor from data on the variation of the length of days. (Russian) **89h:86008**

Grinfel′d, M. A. Gravitating bodies with internal surfaces of phase transitions. (Russian) **89j:86010**

Harris, J. M. (*with* Ramm, A. G.) Inversion of the acoustic well to well data. (Not in MR)

Isham, Valerie *see* **Rodriguez-Iturbe, I.; et al., 89i:86022**

Lehtinen, M. S. On statistical inversion theory. (*see* **89c:00029**)

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Movchan, A. A. The tensor description of a rotating noninertial reference system. (Russian) **89m:86026**

Planchard, Jacques *see* **Bossavit, A., 89i:86021**

Potapov, A. B. *see* **Gizzatulina, S. M.; et al., 89h:86008**

Ramm, A. G. *see* **Harris, J. M.**, (Not in MR)

Rodriguez-Iturbe, I. (*with* Cox, David Roxbee; Isham, Valerie) A point process model for rainfall: further developments. **89i:86022**

Rukavishnikov, V. D. *see* **Gizzatulina, S. M.; et al., 89h:86008**

Ruzmaĭkin, A. A. *see* **Gizzatulina, S. M.; et al., 89h:86008**

Thirriot, Claude (*with* Arnaud, Michel) Expressions récurrentes des moments successifs des fonctions de répartition des longueurs de séquences sèches ou pluvieuses régies par un processus de Markov d'ordre supérieur. (English summary) [Recurrence expressions for successive moments of distribution functions of dry or wet runs following an upper-order Markov chain] **89j:86011**

Timerkaev, V. S. A method for estimating the power of a possible action on the stability of complex objects. (Russian. Tajiki summary) **89d:86017**

Truskinovskiĭ, L. M. Thermodynamics of mantle material and convection equations. (Russian) **89j:86012**

Items with secondary classifications in 86A99

(Brebbia, Carlos Alberto) *see* **Computational methods in water resources, 89m:76002**

(Celia, M. A.) *see* **Computational methods in water resources, 89m:76002**

Chaskalovic, Joël Un résultat d'unicité des solutions de Navier-Stokes modélisant une tornade. (English summary) [A uniqueness result for Navier-Stokes equations applied to tornado phenomena] **89k:76031**

(Ferrand, L. A.) *see* **Computational methods in water resources, 89m:76002**

Gol′dshtik, M. A. (*with* Shtern, V. N.) Conical flows of fluid with variable viscosity. **89j:76044**

(Gray, William G.) *see* **Computational methods in water resources, 89m:76002**

Kythe, P. K. (*with* Puri, Pratap) Unsteady MHD free-convection flows on a porous plate with time-dependent heating in a rotating medium. **89h:76046**

Payne, L. E. (*with* Song, J. C.; Straughan, B.) Double diffusive porous penetrative convection—thawing subsea permafrost. **89k:76091**

(Pinder, G. F.) *see* **Computational methods in water resources, 89m:76002**

Puri, Pratap *see* **Kythe, P. K., 89h:76046**

Shkvarko, Yu. V. Regularization concept in statistical methods for remote sensing radiospectrometry. (Russian. English summary) **89g:85004**

Shtern, V. N. *see* **Gol′dshtik, M. A., 89j:76044**

Song, J. C. *see* **Payne, L. E.; et al., 89k:76091**

Straughan, B. *see* **Payne, L. E.; et al., 89k:76091**

Items listed otherwise than by author

Cambridge, MA ★ Computational methods in water resources. Vol. 1. **89m:76002**

Computational methods in water resources ★ Computational methods in water resources. Vol. 1. **89m:76002**

Conference:

Computational Methods in Water Resources ★ Computational methods in water resources. Vol. 1. **89m:76002**

90–XX Economics, operations research, programming, games

90–00 Handbooks, dictionaries, and other reference works

Items with secondary classifications in 90–00

(Donda, Arno) *see* **Dictionary: Economics, 89f:90001**

Items listed otherwise than by author

Dictionary:

Economics ★ Lexikon der Wirtschaft. (German) [Lexicon of economics] **89f:90001**

90–01 Elementary exposition; textbooks

Aubin, Jean-Pierre ★ Нелинейный анализ и его экономические приложения. (Russian) [Nonlinear analysis and its applications to economics] **89k:90001**

Dorfman, Robert (*with* Samuelson, Paul A.; Solow, Robert M.) ★ Linear programming and economic analysis. **89b:90001**

Fryer, M. J. (*with* Greenman, J. V.) ★ Optimisation theory. **89c:90001**

Greenman, J. V. *see* **Fryer, M. J., 89c:90001**

(Gurin, L. G.) *see* **Aubin, Jean-Pierre, 89k:90001**

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Rockafellar, R. T. Optimization: a case for the development of new mathematical concepts. **89k:90002**

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Solow, Robert M. *see* **Dorfman, Robert; et al., 89b:90001**

Thie, Paul R. ★ An introduction to linear programming and game theory. **89b:90002**

Winston, Wayne L. ★ Operations research: applications and algorithms. **89m:90001**

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Conference:

Mathematical Optimization ★ 19. Jahrestagung "Mathematische Optimierung". [19th Annual Conference on Mathematical Optimization] **89b:90003**

Sellin ★ 19. Jahrestagung "Mathematische Optimierung". [19th Annual Conference on Mathematical Optimization] **89b:90003**

Items with secondary classifications in 90–01

Adel′son-Vel′skiĭ, G. M. *see* **Kuznetsov, O. P., 89k:00002**

Badriev, I. B. (*with* Karchevskiĭ, M. M.) ★ Методы двойственности в прикладных задачах. (Russian) [Duality methods in applied problems] **89d:49015**

Beale, Evelyn Martin Lansdowne ★ Introduction to optimization. **89f:90079**

Cornes, Richard (*with* Sandler, Todd) ★ The theory of externalities, public goods, and club goods. **89g:90056**

Eiselt, H. A. (*with* Pederzoli, G.; Sandblom, C.-L.) ★ Continuous optimization models. **89d:90186**

El-Hodiri, Mohamed *see* **Otani, Yoshihiko, 89c:90005**

Jungnickel, Dieter ★ Graphen, Netzwerke und Algorithmen. (German) [Graphs, networks and algorithms] **89e:05001**

Karchevskiĭ, M. M. *see* **Badriev, I. B., 89d:49015**

Kuznetsov, O. P. (*with* Adel′son-Vel′skiĭ, G. M.) ★ Дискретная математика для инженера. (Russian) [Discrete mathematics for the engineer] **89k:00002**

(Mackley, Lynne) *see* **Beale, Evelyn Martin Lansdowne, 89f:90079**

(Müller-Merbach, Heiner) *see* **Eiselt, H. A.; et al., 89d:90186**

Otani, Yoshihiko (*with* El-Hodiri, Mohamed) ★ Microeconomic theory. **89c:90005**

Pederzoli, G. *see* **Eiselt, H. A.; et al., 89d:90186**

Sandblom, C.-L. *see* **Eiselt, H. A.; et al., 89d:90186**

Sandler, Todd *see* **Cornes, Richard, 89g:90056**

Sherali, H. D. A constructive proof of the representation theorem for polyhedral sets based on fundamental definitions. **89c:52008**

Tapiero, Charles S. ★ Applied stochastic models and control in management. **89e:90075**

90–02 Advanced exposition (research surveys, monographs, etc.)

Greenhut, Melvin L. (*with* Norman, George; Hung, Chao-shun) ★ The economics of imperfect competition. **89g:90001**

Hansen, E. R. An overview of global optimization using interval analysis. (*see* **89j:65011**)

Hung, Chao-shun *see* **Greenhut, Melvin L.; et al., 89g:90001**

Ivashchenko, P. A. ★ Адаптация в экономике. (Russian) [Adaptation in economics] **89g:90002**

Norman, George *see* **Greenhut, Melvin L.; et al., 89g:90001**

Ratschek, Helmut Some recent aspects of interval algorithms for global optimization. (*see* **89j:65011**)

Items with secondary classifications in 90–02

(Aumann, Robert J.) *see* **Harsanyi, John C., 89j:90285**

Balasko, Yves ★ Foundations of the theory of general equilibrium. **89d:90042**

van Damme, Eric ★ Stability and perfection of Nash equilibria. **89f:90205**

Fishburn, Peter C. ★ Nonlinear preference and utility theory. **89k:90022**

(Fleurbaey, Marc) *see* **Grandmont, Jean-Michel, 89f:90016**

(Gao, Che) *see* **Korte, B., 89i:90064a** *and* **89i:90064b**

Grandmont, Jean-Michel ★ Monnaie et valeur. (French) [Money and value] **89f:90016**

Harsanyi, John C. (*with* Selten, Reinhard) ★ A general theory of equilibrium selection in games. **89j:90285**

Kindervater, G. A. P. (*with* Lenstra, J. K.) Parallel computing in combinatorial optimization. **89i:90063**

Korte, B. Combinatorial optimization. I. (Chinese) **89i:90064a**

— Combinatorial optimziation. II. (Chinese) **89i:90064b**

Kozyrev, A. N. *see* **Makarov, Valeriĭ Leonidovich; et al., 89d:90052**

van Laarhoven, P. J. M. ★ Theoretical and computational aspects of simulated annealing. **89m:90136**

Lenstra, J. K. *see* **Kindervater, G. A. P., 89i:90063**

Lewis, P. A. W. (*with* Orav, E. J.) ★ Simulation methodology for statisticians, operations analysts, and engineers. Vol. I. **89j:62002**

Makarov, Valeriĭ Leonidovich (*with* Vasil′ev, V. A.; Kozyrev, A. N.; Marakulin, V. M.) Equilibrium, rationing and stability (based on results of the work of the second Novosibirsk school on mathematical economics). (Russian) **89d:90052**

Marakulin, V. M. *see* **Makarov, Valeriĭ Leonidovich; et al., 89d:90052**

Murty, Katta G. ★ Linear complementarity, linear and nonlinear programming. **89h:90240**

Orav, E. J. *see* **Lewis, P. A. W., 89j:62002**

Primak, A. V. Models for comprehensive assessment of total pollution of atmospheric air (survey). (Not in MR)

Ribhegge, Hermann ★ Grenzen der Theorie rationaler Erwartungen. (German) [Limits of the theory of rational expectations] **89f:90036**

Selten, Reinhard *see* **Harsanyi, John C., 89j:90285**

Sergienko, I. V. ★ Математические модели и методы решения задач дискретной оптимизации. (Russian) [Mathematical models and methods for solving problems of

discrete optimization] **89i:90052**
Vasil'ev, V. A. *see* **Makarov, Valeriĭ Leonidovich; et al., 89d:90052**
Zamir, Shmuel Topics in noncooperative game theory. **89i:90099**

90–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 90–03

Brady, Michael Emmett J. M. Keynes's position on the general applicability of mathematical, logical and statistical methods in economics and social science. **89k:90003**
(Cohen, J. W.) *see* **Le Gall, Pierre, 89m:60239**
Drèze, Jacques H. ★ Essays on economic decisions under uncertainty. **89c:01098**
Epstein, Roy J. ★ A history of econometrics. **89d:62112**
Farebrother, R. W. The historical development of the L_1 and L_∞ estimation procedures: 1793–1930. **89j:01040**
Guerraggio, Angelo Economics and mathematics in Italy in the late nineteenth and early twentieth centuries. (Italian) **89g:01035**
Hald, A. On de Moivre's solutions of the problem of duration of play, 1708–1718. **89d:01032**
Ineichen, Robert Dante-Kommentare und die Vorgeschichte der Stochastik. (English and French summaries) [Dante commentaries and the prehistory of stochastics] **89i:01011**
(Kantorovich, L. V.) *see* **Petrova, L. T., 89h:01046**
Koslowski, Peter Maximierung von Existenz. Leibniz' Theorie der besten aller möglichen Welten und die Wirtschaftstheorie. (French summary) [Maximization of existence. Leibniz' theory of the best of all possible worlds and the theory of economics] **89m:01037**
Le Gall, Pierre Some comments on the work of J. W. Cohen and new results in the theory of queueing networks. **89m:60239**
(McGilvray, I.) *see* **Guerraggio, Angelo, 89g:01035**
(de Moivre, Abraham) *see* **Hald, A., 89d:01032**
Petrova, L. T. Commentary on the works of L. V. Kantorovich on large-block programming. (Russian) **89h:01046**
Pidd, Michael Progress in discrete computer simulation. **89a:00035**

90–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 90–04

Ahmed, Mohamed Hassan *see* **Plummer, J.; et al., 89h:90212**
Akhmadkulov, A. On the problem of constructing complex adjoint lines from arcs of circles and straight segments. (Russian) **89g:51018**
Lasdon, L. S. *see* **Plummer, J.; et al., 89h:90212**
Plummer, J. (*with* Lasdon, L. S.; Ahmed, Mohamed Hassan) Solving a large nonlinear programming problem on a vector processing computer. **89h:90212**

90–06 Proceedings, conferences, etc.

(Aĭzerman, M. A.) *see* **Topics in the general theory of structures, 89d:90001**
(Caianiello, Eduardo R.) *see* **Topics in the general theory of structures, 89d:90001**
(Ermol'ev, Yu. M.) *see* **Analysis of stochastic systems by methods in operations research and reliability theory, 89b:90004**
(van Groesen, E. W. C.) *see* **Proceedings: Symposium on Mathematics in Industry, 89e:90001**
(Hazewinkel, M.) *see* **Proceedings: Symposium on Mathematics in Industry, 89e:90001**
(Kolokolov, A. A.) *see* **Discrete optimization and numerical methods for solving applied problems, 89c:90002**
Krivosheev, O. V. (*with* Teteruk, S. I.) Procedures for the optimization of decision making algorithms for recognition in multichannel man-machine complexes. (Russian) **89j:90001b**
(Mattheij, R. M. M.) *see* **Proceedings: Symposium on Mathematics in Industry, 89e:90001**
(Mikhalevich, V. S.) *see* **Methods for the investigation of extremal problems, 89c:90003**
(Rvachëv, V. L.) *see* **Methods of applied mathematics in machine building, 89g:90003**
(Skurikhin, V. I.) *see* **Models for and realization of prospective devices for automatic control systems, 89j:90001a**
Teteruk, S. I. *see* **Krivosheev, O. V., 89j:90001b**
(Vilaplana, José P.) *see* **Proceedings: Seminar on Operational Research in the Basque Provinces, 89g:90004**

Items listed otherwise than by author

Amsterdam ★ Proceedings of the First European Symposium on Mathematics in Industry. **89e:90001**
Analysis of stochastic systems by methods in operations research and reliability theory ★ Анализ стохастических систем методами исследования операций и теории надежности. (Russian) [Analysis of stochastic systems by methods in operations research and reliability theory] **89b:90004**
Discrete optimization and numerical methods for solving applied problems ★ Дискретная оптимизация и численные методы решения прикладных задач. (Russian) [Discrete optimization and numerical methods for solving applied problems] **89c:90002**
Methods for the investigation of extremal problems ★ Методы исследования экстремальных задач. (Russian) [Methods for the investigation of extremal problems] **89c:90003**
Methods of applied mathematics in machine building ★ Методы прикладной математики в машиностроении. (Russian) [Methods of applied mathematics in machine building] **89g:90003**
Models for and realization of prospective devices for automatic control systems ★ Модели и реализация перспективных элементов АСУ. (Russian) [Models for and realization of prospective devices for automatic control systems] **89j:90001a**
Proceedings:
  Seminar on Operational Research in the Basque Provinces ★ Actas II Seminario Internacional de Investigación Operativa en el País Vasco. [Proceedings of the Second International Seminar on Operational Research in the Basque Provinces] **89g:90004**
Proceedings: (*cont'd.*)
  Symposium on Mathematics in Industry ★ Proceedings of the First European Symposium on Mathematics in Industry. **89e:90001**
San Sebastián ★ Actas II Seminario Internacional de Investigación Operativa en el País Vasco. [Proceedings of the Second International Seminar on Operational Research in the Basque Provinces] **89g:90004**
Seminar:
  Operational Research in the Basque Provinces ★ Actas II Seminario Internacional de Investigación Operativa en el País Vasco. [Proceedings of the Second International Seminar on Operational Research in the Basque Provinces] **89g:90004**
  Optimization Theory ★ Seminar on Optimization Theory. **89g:90005**
Symposium:
  Mathematics in Industry ★ Proceedings of the First European Symposium on Mathematics in Industry. **89e:90001**
Topics in the general theory of structures ★ Topics in the general theory of structures. **89d:90001**

Items with secondary classifications in 90–06

(Andersson, Å. E.) *see* **Special issue: Emerging paradigms in applied mathematical modelling, 89c:00028**
(Bensoussan, A.) *see* **Analysis and optimization of systems, 89c:00031**
(Casti, J.) *see* **Special issue: Emerging paradigms in applied mathematical modelling, 89c:00028**
(Christiansen, P. L.) *see* **Special issue: Emerging paradigms in applied mathematical modelling, 89c:00028**
(Diekmann, Andreas) *see* **Paradoxical effects of social behavior, 89d:90019**
(Greenberg, Harvey J.) *see* **Mathematical models for decision support, 89g:90136**
(Karlqvist, A.) *see* **Special issue: Emerging paradigms in applied mathematical modelling, 89c:00028**
(Lions, J.-L.) *see* **Analysis and optimization of systems, 89c:00031**
(Lootsma, Freerk A.) *see* **Mathematical models for decision support, 89g:90136**
(Mitra, Gautam) *see* **Mathematical models for decision support, 89g:90136**
(Mitter, Peter) *see* **Paradoxical effects of social behavior, 89d:90019**
(Pontryagin, L. S.) *see* **Optimal control and differential games,** (Not in MR)
(Rapoport, Anatol) *see* **Paradoxical effects of social behavior, 89d:90019**
(Rijckaert, M. J.) *see* **Mathematical models for decision support, 89g:90136**
(Sergienko, I. V.) *see* **Design and development of program packages, 89c:00011**
(Zimmermann, Hans-J.) *see* **Mathematical models for decision support, 89g:90136**

Items listed otherwise than by author

Analysis and optimization of systems ★ Analysis and optimization of systems. **89c:00031**
Antibes ★ Analysis and optimization of systems. **89c:00031**
Conference:
  Analysis and Optimization of Systems ★ Analysis and optimization of systems. **89c:00031**
Design and development of program packages ★ Проектирование и разработка пакетов программ. (Russian) [Design and development of program packages] **89c:00011**
Essays:
  Nonlinear analysis and optimization problems ★ Essays on nonlinear analysis and optimization problems. **89g:90242**
Lecture Notes in Control and Information Sciences ★ Analysis and optimization of systems. **89c:00031**
Mathematical models for decision support ★ Mathematical models for decision support. **89g:90136**
NATO Advanced Study Institute:
  Mathematical Models for Decision Support ★ Mathematical models for decision support. **89g:90136**
Optimal control and differential games ★ Оптимальное управление и дифференциальные игры. (Russian) [Optimal control and differential games] (Not in MR)
Paradoxical effects of social behavior ★ Paradoxical effects of social behavior. **89d:90019**
Special issue:
  Emerging paradigms in applied mathematical modelling ★ Special issue on emerging paradigms in applied mathematical modelling. **89c:00028**
Val d'Isère ★ Mathematical models for decision support. **89g:90136**

Items with secondary classifications in 90–06

Anderson, Gary Stanley A procedure for differentiating perfect-foresight-model reduced-form coefficients. (Not in MR)

90Axx Mathematical economics {For econometrics, see 62P20.}

Afriat, S. N. ★ Logic of choice and economic theory. **89c:90004**
(Allais, Maurice) *see* **Markets, capital and uncertainty, 89f:90002**
(Ambrosetti, Antonio) *see* **Mathematical economics, 89e:90004**
(Auerbach, Alan J.) *see* **Handbook: Public economics, 89m:90002a** *and* **89m:90002b**
(Barabash, S. B.) *see* **Mathematical methods for the analysis of the interaction of branch and regional systems, 89j:90003**
(Berlyand, E. L.) *see* **Mathematical methods for the analysis of the interaction of branch and regional systems, 89j:90003**
(Boiteux, Marcel) *see* **Markets, capital and uncertainty, 89f:90002**
Brady, Michael Emmett J. M. Keynes's position on the general applicability of mathematical, logical and statistical methods in economics and social science. **89k:90003**
(Donda, Arno) *see* **Dictionary: Economics, 89f:90001**
El-Hodiri, Mohamed *see* **Otani, Yoshihiko, 89c:90005**
(Feichtinger, Gustav) *see* **Optimal control theory and economic analysis, 89d:90002**
(Feldstein, Martin) *see* **Handbook: Public economics, 89m:90002a** *and* **89m:90002b**
Gehrig, W. Functional equation methods applied to economic problems: some examples. **89g:90006**

(Gori, Franco) *see* **Mathematical economics, 89e:90004**
(Henn, Rudolf) *see* **Economics and mathematics, 89j:90002**
Karasev, A. I. (*with* Kremer, N. Sh.; Savel′eva, T. I.) ★ Математические методы и модели в планировании. (Russian) [Mathematical methods and models in planning] **89e:90002**
(Kollintzas, Tryphon) *see* **Rational expectations equilibrium inventory model, 89k:90004**
Kremer, N. Sh. *see* **Karasev, A. I.; et al., 89e:90002**
(Lucchetti, R.) *see* **Mathematical economics, 89e:90004**
(de Montbrial, Thierry) *see* **Markets, capital and uncertainty, 89f:90002**
(Munier, Bertrand R.) *see* **Markets, capital and uncertainty, 89f:90002**
(Opitz, O.) *see* **Economics and mathematics, 89j:90002**
Otani, Yoshihiko (*with* El-Hodiri, Mohamed) ★ Microeconomic theory. **89c:90005**
(Rauhut, B.) *see* **Economics and mathematics, 89j:90002**
Savel′eva, T. I. *see* **Karasev, A. I.; et al., 89e:90002**
Sengupta, Jati K. ★ Stochastic optimization and economic models. **89e:90003**
Vallar, Gavino A., Jr. Functions of several variables in business and economics. (Not in MR)

Items listed otherwise than by author

Birthday:
Henn, Rudolf ★ Ökonomie und Mathematik. (German) [Economics and mathematics] **89j:90002**
Dictionary:
Economics ★ Lexikon der Wirtschaft. (German) [Lexicon of economics] **89f:90001**
Economics and mathematics ★ Ökonomie und Mathematik. (German) [Economics and mathematics] **89j:90002**
Handbook:
Public economics ★ Handbook of public economics. Vol. I. **89m:90002a**
— ★ Handbook of public economics. Vol. II. **89m:90002b**
Lecture Notes in Economics and Mathematical Systems ★ The rational expectations equilibrium inventory model. **89k:90004**
Lecture Notes in Mathematics ★ Mathematical economics. **89e:90004**
Markets, capital and uncertainty ★ Marchés, capital et incertitude. (French) [Markets, capital and uncertainty] **89f:90002**
Mathematical economics ★ Mathematical economics. **89e:90004**
Mathematical methods for the analysis of the interaction of branch and regional systems ★ Математические методы анализа взаимодействия отраслевых и региональных систем. (Russian) [Mathematical methods for the analysis of the interaction of branch and regional systems] **89j:90003**
Montecatini Terme ★ Mathematical economics. **89e:90004**
Ökonomie und Mathematik ★ Ökonomie und Mathematik. (German) [Economics and mathematics] **89j:90002**
Optimal control theory and economic analysis ★ Optimal control theory and economic analysis. 3. **89d:90002**
Rational expectations equilibrium inventory model ★ The rational expectations equilibrium inventory model. **89k:90004**
Session:
Mathematical Economics ★ Mathematical economics. **89e:90004**
Vienna ★ Optimal control theory and economic analysis. 3. **89d:90002**
Workshop:
Optimal Control Theory and Economic Analysis ★ Optimal control theory and economic analysis. 3. **89d:90002**

Items with secondary classifications in 90Axx

(Aoki, Masanao) *see* **Economic time series with random walk and other nonstationary components, 89j:62004**
(Arrow, Kenneth J.) *see* **Lives of the laureates, 89d:01074**
Aubin, Jean-Pierre ★ Нелинейный анализ и его экономические приложения. (Russian) [Nonlinear analysis and its applications to economics] **89k:90001**
(Breit, William) *see* **Lives of the laureates, 89d:01074**
(Friedman, Milton) *see* **Lives of the laureates, 89d:01074**
(Gurin, L. G.) *see* **Aubin, Jean-Pierre, 89k:90001**
(Klein, Lawrence R.) *see* **Lives of the laureates, 89d:01074**
(Kukushkin, N. S.) *see* **Aubin, Jean-Pierre, 89k:90001**
(Lewis, W. Arthur) *see* **Lives of the laureates, 89d:01074**
(Samuelson, Paul A.) *see* **Lives of the laureates, 89d:01074**
(Spencer, Roger W.) *see* **Lives of the laureates, 89d:01074**
(Stigler, George J.) *see* **Lives of the laureates, 89d:01074**
Tapiero, Charles S. ★ Applied stochastic models and control in management. **89e:90075**
(Tobin, James) *see* **Lives of the laureates, 89d:01074**

Items listed otherwise than by author

Economic time series with random walk and other nonstationary components ★ Economic time series with random walk and other nonstationary components. **89j:62004**
Lives of the laureates ★ Lives of the laureates. **89d:01074**
Special Issue:
Economic time series with random walk and other nonstationary components ★ Economic time series with random walk and other nonstationary components. **89j:62004**

90A05 Decision theory [see also 62Cxx, 90B50, 90D35]

Aizerman, M. A. (*with* Litvakov, B. M.) Some generalizations of the theory of choice of variants (principles of the theory of pseudocriteria). **89f:90003**
Bamberg, G. (*with* Coenenberg, Adolf Gerhard) ★ Betriebswirtschaftliche Entscheidungslehre. (German) [Decision theory in industrial management] **89h:90001**
Barbarà, Salvador (*with* Jackson, Matthew) Maximin, leximin, and the protective criterion: characterizations and comparisons. **89j:90004**
Bárdossy, A. *see* **Szidarovszky, Ferenc; et al., 89d:90010**
Barrett, C. R. (*with* Pattanaik, Prasanta K.) Aggregation of probability judgements. **89f:90004**
Barthélémy, Jean-Pierre (*with* Mullet, E.) Choice basis: a model for multi-attribute preference. **89i:90001**
— Comments on: "Aggregation of equivalence relations" [J. Classification 3 (1986), no. 1, 61–65; MR 87h:90008] by P. C. Fishburn and A. Rubinstein. **89i:90002**
Belkin, A. R. Desirable properties of optimal linear rankings. **89a:90001**
Berninghaus, S. (*with* Völker, R.) Optimale Innovationspolitik bei unvollständiger Information. (English summary) [Optimal innovation policy under incomplete information] **89h:90002**
Bolaños, M. J. (*with* Lamata, M. T.; Moral, S.) Decision making problems in a general environment. **89a:90002**
Bondareva, O. N. Axiomatics of the core and of the von Neumann-Morgenstern solution as fuzzy and nonfuzzy choice functions. **89h:90003**
Bouyssou, Denis *see* **Roy, Bernard, (89f:90002)**
Bronisz, Piotr (*with* Kruś, Lech) Application of generalized Raiffa solution to multicriteria bargaining support. (*see* **89f:00029**)
Castañon, David A. (*with* Teneketzis, Demosthenis) Further results on the asymptotic agreement problem. **89c:90006**
Chashchin, G. V. *see* **Mazurov, Vl. D.; et al., 89d:90005**
Coenenberg, Adolf Gerhard *see* **Bamberg, G., 89h:90001**
Cyert, Richard M. (*with* DeGroot, Morris H.) ★ Bayesian analysis and uncertainty in economic theory. **89a:90003**
Czogała, E. On the choice of optimal alternatives for decision making in probabilistic fuzzy environment. **89h:90004**
Debreu, Gerard Economic theory in the mathematical mode. (Chinese) **89h:90005**
DeGroot, Morris H. *see* **Cyert, Richard M., 89a:90003**
Demko, S. G. (*with* Hill, Theodore P.) Equitable distribution of indivisible objects. **89j:90005**
Doignon, Jean-Paul *see* **Falmagne, Jean-Claude, 89i:90004**
Dumitru, Vincențiu (*with* Luban, Florica) On the Pareto invariance of some decision functionals. **89h:90006**
Easley, David (*with* Kiefer, Nicholas M.) Controlling a stochastic process with unknown parameters. **89i:90003**
Falmagne, Jean-Claude (*with* Doignon, Jean-Paul) A Markovian procedure for assessing the state of a system. **89i:90004**
Fishburn, Peter C. (*with* Lavalle, Irving H.) The structure of SSB utilities for decision under uncertainty. **89f:90005**
— *see also* **Lavalle, Irving H., 89i:90005** *and* **Barthélémy, Jean-Pierre, 89i:90002**
Fleurbaey, Marc Rational behaviour and adaptation. **89b:90005**
Ford, J. L. ★ Economic choice under uncertainty. **89b:90006**
Forges, Françoise Can sunspots replace a mediator? **89m:90003**
Freixas, Xavier L'effet d'irréversibilité généralisé. [The generalized irreversibility effect] (*see* **89f:90002**)
Friedman, Steven J. (*with* Supowit, Kenneth J.) Finding the optimal variable ordering for binary decision diagrams. **89j:90006**
Gershon, Mark *see* **Szidarovszky, Ferenc; et al., 89d:90010**
Gessing, Ryszard Optimal control laws for two-level hierarchical resource allocation. **89a:90004**
Gigliotti, Gary Anthony The conflict between naive and sophisticated choice as a form of the "liberal paradox". **89a:90005**
Gilboa, Itzhak A combination of expected utility and maximin decision criteria. **89m:90004**
Giles, Robin A utility-valued logic for decision making. **89h:90007**
Hartl, Richard F. A wheat trading model with demand and spoilage. **89h:90008**
Hill, Theodore P. *see* **Demko, S. G., 89j:90005**
Holler, Manfred J. Moral sentiments and self-interest reconsidered. (*see* **89d:90019**)
Hrouda, Jaroslav Multicriteria evaluation in economic analysis. (Czech. English summary) **89a:90006**
Jackson, Matthew *see* **Barbarà, Salvador, 89j:90004**
Jaffray, Jean-Yves An axiomatic model of choice under risk which is compatible with the certainty effect. **89e:90005**
Jain, Hemant K. *see* **Javalgi, Rajshekhar G., (89j:90161)**
Javalgi, Rajshekhar G. (*with* Jain, Hemant K.) Integrating multiple criteria decision making models into the decision support system framework for marketing decisions. (*see* **89j:90161**)
Kiefer, Nicholas M. *see* **Easley, David, 89i:90003**
Kondrat′ev, V. V. Compatibility, coordination and optimization problems in active systems. (Russian. English summary) **89a:90007**
Kruś, Lech *see* **Bronisz, Piotr, (89f:00029)**
Lamata, M. T. *see* **Bolaños, M. J.; et al., 89a:90002**
Lavalle, Irving H. (*with* Fishburn, Peter C.) Decision analysis under states-additive SSB preferences. **89i:90005**
— *see also* **Fishburn, Peter C., 89f:90005**
Leleno, Joanna M. *see* **Sherali, H. D., 89k:90006**
Lindenberg, Siegwart The paradox of privatization in consumption. (*see* **89d:90019**)
Litvakov, B. M. *see* **Aĭzerman, M. A., 89f:90003**
Luban, Florica *see* **Dumitru, Vincențiu, 89h:90006**
Maeda, Hiroshi (*with* Murakami, Shuta) A fuzzy decision-making method and its application to a company choice problem. **89d:90003**
Mareschal, B. Aide à la décision multicritère: développements récents des méthodes PROMÉTHÉE. (English summary) [Recent extensions of PROMÉTHÉE methods for multicriterion decision] **89b:90007**
Matarazzo, Benedetto Preference ranking global frequencies in multicriterion analysis (PRAGMA). **89d:90004**
Mazurov, Vl. D. (*with* Chashchin, G. V.; Startseva, N. N.) Group decision and the cyclical dynamics of a conflicting problem of the choice of a strategy for treatment. (Russian) **89d:90005**
— Committee decisions on contradictory problems of optimization and classification. (Russian) **89e:90006**
Mohanty, B. K. *see* **Rao, J. R.; et al., 89h:90009**
Mongin, Philippe (*with* Walliser, Bernard) Infinite regressions in the optimizing theory of decision. **89b:90008**

Moral, S. *see* **Bolaños, M. J.; et al., 89a:90002**
Mullet, E. *see* **Barthélémy, Jean-Pierre, 89i:90001**
Munier, Bertrand R. Complexité et décision stratégique dans l'incertain: que peut-on retenir de la théorie? [Complexity and strategic decision under uncertainty: what can be retained of the theory?] (*see* **89f:90002**)
— A guide to decision-making under uncertainty. **89b:90009**
Murakami, Shuta *see* **Maeda, Hiroshi, 89d:90003**
Myerson, Roger B. Bayesian equilibrium and incentive-compatibility: an introduction. **89b:90010**
Nijkamp, Peter (*with* Rietveld, Piet; Spronk, J.) Open problems in the operationalization of multiple criteria decision methods. A brief survey. **89g:90007**
Ozernoĭ, V. M. Multiple criteria decision making in the USSR: a survey. **89k:90005**
Page, Talbot Pivot mechanisms as a link between probability and preference revelation. **89d:90006**
Palubinskas, Gintautas Error probability of the Bayes decision rule for normal random vectors when the model and the data do not coincide. (Russian. English and Lithuanian summaries) (Not in MR)
Pattanaik, Prasanta K. *see* **Barrett, C. R., 89f:90004**
Pavlov, I. V. A sequential decision making procedure for statistical tests of complex systems. (Russian) **89d:90007**
Persikov, V. A. *see* **Tarasenko, V. F., 89h:90010**
Rao, J. R. (*with* Tiwari, R. N.; Mohanty, B. K.) Preference structure on alternatives and judges in a group decision problem—a fuzzy approach. **89h:90009**
Rietveld, Piet *see* **Nijkamp, Peter; et al., 89g:90007**
Roemer, John E. Axiomatic bargaining theory on economic environments. **89f:90006**
Roy, Bernard (*with* Bouyssou, Denis) Comparaison, sur un cas précis, de deux modèles concurrents d'aide à la décision. [Comparison, in a precise case, of two concurrent decision-aid models] (*see* **89f:90002**)
(Rubinstein, Ariel) *see* **Barthélémy, Jean-Pierre, 89i:90002**
Rust, John Statistical models of discrete choice processes. **89a:90008**
Saari, Donald G. On the types of information and mechanism design. **89j:90007**
Sakaguchi, Minoru An entropy model for brand selection behavior—exit of the third brand. **89m:90005**
Sengupta, Jati K. Robust efficiency measures in a stochastic efficiency model. **89c:90007**
Sertel, Murat R. Characterizing fidelity for reflexive choices. **89d:90008**
Sherali, H. D. (*with* Leleno, Joanna M.) A mathematical programming approach to a Nash-Cournot equilibrium analysis for a two-stage network of oligopolies. **89k:90006**
Shneĭderman, M. V. Procedures for collective expert evaluation and their experimental investigation. **89e:90007**
Smith, J. Q. ★ Decision analysis: a Bayesian approach. **89e:90008**
Sobel, Jordan Howard Metatickles, ratificationism, and Newcomb-like problems without dominance. **89d:90009**
— Defenses and conservative revisions of evidential decision theories: metatickles and ratificationism. **89c:90008**
Spronk, J. *see* **Nijkamp, Peter; et al., 89g:90007**
Startseva, N. N. *see* **Mazurov, Vl. D.; et al., 89d:90005**
Supowit, Kenneth J. *see* **Friedman, Steven J., 89j:90006**
Szidarovszky, Ferenc (*with* Gershon, Mark; Bárdossy, A.) Application of multiobjective dynamic programming to regional natural resource management. **89d:90010**
Tarasenko, V. F. (*with* Persikov, V. A.) A procedure for the choice of alternatives in a multicriterial decision making problem in the presence of fuzzy initial information. (Russian. English summary) **89h:90010**
Tarasov, V. B. Modeling of preferences in decision-making problems by parametrized fuzzy relations. (Russian) (*see* **89c:00014**)
Teneketzis, Demosthenis *see* **Castañon, David A., 89c:90006**
Tiwari, R. N. *see* **Rao, J. R.; et al., 89h:90009**
Trapp, Rainer W. ★ "Nicht-klassischer" Utilitarismus. (German) ["Nonclassical" utilitarianism] **89e:90009**
Völker, R. *see* **Berninghaus, S., 89h:90002**
Walliser, Bernard *see* **Mongin, Philippe, 89b:90008**
Wang, Wen Tao *see* **Zheng, Qin Fen; et al., 89d:90011**
Weirich, Paul Expected utility and risk. **89a:90009**
Wu, Jian Kang *see* **Zheng, Qin Fen; et al., 89d:90011**
Yakovlev, K. N. Decision-making in multistage recognition systems in the presence of fuzzy attributes. (Russian) (*see* **89h:00001**)
Zheng, Qin Fen (*with* Wu, Jian Kang; Wang, Wen Tao) A study of decision tree classifiers. (Chinese. English summary) **89d:90011**

Items with secondary classifications in 90A05

Allais, Maurice The general theory of random choices in relation to the invariant cardinal utility function and the specific probability function. The (U, θ) model: a general overview. **89k:90019**
Anderson, Simon P. (*with* de Palma, André; Thisse, Jacques-François) A representative consumer theory of the logit model. **89m:90020**
Antsyz, S. M. *see* **Marshak, V. D.; et al.**, (Not in MR)
Arrow, Kenneth J. (*with* Raynaud, Hervé) ★ Social choice and multicriterion decision-making. **89j:90015**
Asch, Peter (*with* Quandt, Richard E.) Betting bias in "exotic" bets. **89j:90299**
Baker, John A. *see* **Radó, F., 89i:39014**
Balasko, Yves (*with* Shell, Karl) Lump-sum taxes and transfers: public debt in the overlapping-generations model. **89c:90038**
Bandyopadhyay, Taradas Revealed preference theory, ordering and the axiom of sequential path independence. **89g:90009**
Barlow, Richard Utility theory. **89d:90030**
Becker, Joao L. (*with* Sarin, Rakesh K.) Lottery dependent utility. **89a:90027**
Besanko, David (*with* Donnenfeld, Shabtai) The impact of buyers' expectations on entry deterrence. **89g:90051**
Bouyssou, Denis (*with* Vansnick, Jean-Claude) A note on the relationships between utility and value functions. **89c:90017**
Brandenburger, Adam (*with* Dekel, Eddie) Common knowledge with probability 1. **89a:90187**
Buckley, J. J. (*with* Tucker, Douglas) Extended fuzzy relations: application to fuzzy expert systems. (Not in MR)
Butko, S. N. (*with* Petrovskiĭ, A. M.; Rodionov, V. V.) Interactive multicriterial choice of variants in problems with weak constraints. **89a:90140**
Cao, Zhi Qiang (*with* Kim, Ki Hang; Roush, F. W.) ★ Incline algebra and applications. **89b:08001**
Cho, Seong-cheol *see* **Kim, Sehun, 89h:90157**
Chupin, V. G. *see* **Marshak, V. D.; et al.**, (Not in MR)
Collins, John David Belief, desire, and revision. **89i:03003**
(Condorret, Antoine, Marquis de) *see* **Daston, Lorraine J., 89b:01015**
Conrath, D. W. *see* **Irving, R. H., 89h:92068**
Cramton, P. (*with* Gibbons, Robert Scott; Klemperer, P.) Erratum: "Dissolving a partnership efficiently" [Econometrica **55** (1987), no. 3, 615–632; MR 88f:90018]. **89j:90012**
Dale, M. R. T. (*with* Narayana, T. V.) The number of decision sets involving n means. **89a:05011**
Daston, Lorraine J. Rational individuals versus laws of society: from probability to statistics. **89b:01015**
Dekel, Eddie *see* **Brandenburger, Adam, 89a:90187**
Delgado, M. (*with* Moral, S.) A definition of inclusion for evidences. **89m:60009**
Deschamps, Philippe J. A note on the maximum likelihood estimation of allocation systems. (Not in MR)
Diekmann, Andreas *see* **Paterson, Iain, 89g:90266**
Dong, Ze Qing On decision analysis. (Chinese) (Not in MR)
Donnenfeld, Shabtai *see* **Besanko, David, 89g:90051**
Drèze, Jacques H. Moral expectation with moral hazard. **89g:90038**
— ★ Essays on economic decisions under uncertainty. **89c:01098**
Farquhar, Peter H. (*with* Nakamura, Yutaka) Utility assessment procedures for polynomial-exponential functions. **89k:90021**
Fishburn, Peter C. (*with* Lavalle, Irving H.) Context-dependent choice with nonlinear and nontransitive preferences. **89k:90007**
— (*with* Roberts, Fred S.) Unique finite conjoint measurement. **89h:92074**
Folger, Tina A. *see* **Klir, G. J., 89e:94028**
Gärdenfors, Peter ★ Knowledge in flux. **89k:00015**
Gibbons, Robert Scott *see* **Cramton, P.; et al., 89j:90012**
Haller, Hans Competition in a stock market with small firms. **89h:90033**
Hurwicz, Leonid (*with* Majumdar, Mukul) Optimal intertemporal allocation mechanisms and decentralization of decisions. **89g:90075**
Intriligator, Michael D. (*with* Sheshinski, Eytan) Toward a theory of planning. **89b:90112**
Irving, R. H. (*with* Conrath, D. W.) The social context of multiperson, multiattribute decisionmaking. **89h:92068**
Jaffray, Jean-Yves Choice under risk and the security factor: an axiomatic model. **89f:90020**
— Some experimental findings on decision making under risk and their implications. **89m:90022**
Karimov, I. A. On a group expert estimation of indices measured on a ratio scale. **89j:90013**
Karotkin, Drora (*with* Nitzal, Samuel; Paroush, Jacob) The essential ranking of decision rules in small panels of experts. **89d:90016**
Kempthorne, Peter J. Controlling risks under different loss functions: the compromise decision problem. **89i:62016**
Kim, Ki Hang *see* **Cao, Zhi Qiang; et al., 89b:08001**
Kim, Sehun (*with* Cho, Seong-cheol) A shadow price in integer programming for management decision. **89h:90157**
Klemperer, P. *see* **Cramton, P.; et al., 89j:90012**
Klir, G. J. (*with* Folger, Tina A.) ★ Fuzzy sets, uncertainty, and information. **89e:94028**
Kyburg, Henry E., Jr. Higher order probabilities and intervals. **89h:03034**
Laffont, Jean-Jacques (*with* Tirole, Jean) The dynamics of incentive contracts. **89i:90020**
Lavalle, Irving H. *see* **Fishburn, Peter C., 89k:90007**
Lee, Wayne Y. (*with* Rao, Ramesh K. S.) Mean lower partial moment valuation and lognormally distributed returns. **89d:90026**
Legut, Jerzy A game of fair division with continuum of players. **89a:90169**
Lehoczky, John P. (*with* Sethi, Suresh P.; Shreve, Steven E.) A martingale formulation for optimal consumption/investment decision making. **89b:90025**
Lewis, David K. Desire as belief. **89i:03006**
Lindley, Dennis V. Using expert advice on a skew judgmental distribution. **89b:62013**
Machina, Mark J. (*with* Neilson, William S.) The Ross characterization of risk aversion: strengthening and extension. **89a:90023**
Madan, Dilip B. (*with* Owings, James C., Jr.) Decision theory with complex uncertainties. **89j:03016**
Majumdar, Mukul *see* **Hurwicz, Leonid, 89g:90075**
Marschak, Thomas Independence versus dominance in personal probability axioms. **89g:90043**
Marshak, V. D. (*with* Antsyz, S. M.; Chupin, V. G.) A model of the process of the composition of local decisions, taking cooperation into account. (Russian) (Not in MR)
Montero de Juan, Francisco Javier (*with* Tejada Cazorla, Juan) Fuzzy preferences in decision-making. **89e:90015**
Montesano, Aldo A generalized measure of risk aversion, without the independence axiom. **89f:90021**
— The risk aversion measure without the independence axiom. **89g:90044**
Moral, S. *see* **Delgado, M., 89m:60009**
von zur Muehlen, Peter *see* **Swamy, P. A. V. B.**, (Not in MR)
Nakamura, Yutaka *see* **Farquhar, Peter H., 89k:90021**
Narayana, T. V. *see* **Dale, M. R. T., 89a:05011**
Neilson, William S. *see* **Machina, Mark J., 89a:90023**
Nielsen, Lars Tyge Comparative risk aversion. **89j:90038**
Niemelä, Ilkka Decision procedure for autoepistemic logic. (*see* **89c:68004**)
Nijkamp, Peter (*with* Rietveld, Piet) Multiple objective decision analysis in regional economics. (*see* **89m:90047**)

Nitzal, Samuel *see* **Karotkin, Drora; et al., 89d:90016**

Östermark, Ralf Optimal compromising within a multicriterial conflict zone. **89b:90113**

Owings, James C., Jr. *see* **Madan, Dilip B., 89j:03016**

de Palma, André *see* **Anderson, Simon P.; et al., 89m:90020**

Paroush, Jacob *see* **Karotkin, Drora; et al., 89d:90016**

Paterson, Iain (*with* Diekmann, Andreas) A paradox in decision theory and some experimental results: the relative nature of decisions. **89g:90266**

Pawlak, Zdzisław On decision tables. (Russian summary) **89a:04002**

— On rough relations. (Russian summary) **89b:04004**

Petrovskiĭ, A. M. *see* **Butko, S. N.; et al., 89a:90140**

Podinovskiĭ, V. V. Estimation of the efficiency of decision rules in multicriterial problems. **89j:90240**

Pope, Robin Elizabeth The Bayesian approach: irreconcilable with expected utility theory? **89b:90031**

Quandt, Richard E. *see* **Asch, Peter, 89j:90299**

(Quetelet, Adolphe) *see* **Daston, Lorraine J., 89b:01015**

Radó, F. (*with* Baker, John A.) Pexider's equation and aggregation of allocations. **89i:39014**

Ramsey, James B. Probability of ruin: a useful alternative to the expected utility hypothesis in firm decision making. (*see* **89f:90002**)

Rao, Ramesh K. S. *see* **Lee, Wayne Y., 89d:90026**

Raynaud, Hervé *see* **Arrow, Kenneth J., 89j:90015**

Rietveld, Piet *see* **Nijkamp, Peter, (89m:90047)**

Roberts, Fred S. *see* **Fishburn, Peter C., 89h:92074**

Rodionov, V. V. *see* **Butko, S. N.; et al., 89a:90140**

Roush, F. W. *see* **Cao, Zhi Qiang; et al., 89b:08001**

Roy, Bernard (*with* Vincke, Ph.) Pseudo-orders: definition, properties and numerical representation. **89g:06019**

Rustem, B. (*with* Velupillai, K.) Objective functions and the complexity of policy design. **89a:90105**

Sarin, Rakesh K. *see* **Becker, Joao L., 89a:90027**

Sengupta, Jati K. Nonlinear measures of technical efficiency. **89m:90091**

Sethi, Suresh P. *see* **Lehoczky, John P.; et al., 89b:90025**

Shafer, Glenn Belief functions and possibility measures. **89c:03041**

Shell, Karl *see* **Balasko, Yves, 89c:90038**

Sheshinski, Eytan *see* **Intriligator, Michael D., 89b:90112**

Shreve, Steven E. *see* **Lehoczky, John P.; et al., 89b:90025**

Swamy, P. A. V. B. (*with* von zur Muehlen, Peter) Further thoughts on testing for causality with econometric models. (Not in MR)

Tan, Choon Peng Conditions for consensus using spectral decomposition. **89j:90014**

Tejada Cazorla, Juan *see* **Montero de Juan, Francisco Javier, 89e:90015**

Thisse, Jacques-François *see* **Anderson, Simon P.; et al., 89m:90020**

Thon, Dominique (*with* Thorlund-Petersen, Lars) Stochastic dominance and Friedman-Savage utility functions. **89j:90039**

Thorlund-Petersen, Lars *see* **Thon, Dominique, 89j:90039**

Tirole, Jean *see* **Laffont, Jean-Jacques, 89i:90020**

Troutt, Marvin D. A minimum variance of utility approach to ideal point estimation in certain biased groups. **89a:90013**

Tucker, Douglas *see* **Buckley, J. J., (Not in MR)**

Vansnick, Jean-Claude *see* **Bouyssou, Denis, 89c:90017**

Varian, Hal R. Estimating risk aversion from Arrow-Debreu portfolio choice. **89j:90030**

Velupillai, K. *see* **Rustem, B., 89a:90105**

Vilaplana, José P. Equipment replacement. (Spanish. English summary) **89k:90078**

Vinci, Thomas C. Objective chance, indicative conditionals and decision theory; or, how you can be smart, rich and keep on smoking. **89b:03042**

Vincke, Ph. *see* **Roy, Bernard, 89g:06019**

Weidner, Petra On interdependencies between objective functions and dominance sets in vector optimization. **89i:90085**

— The influence of neglecting feasible points and of varying preferences on the efficient point set. **89f:90169**

Wildenberg, Gerald Convergence-preserving functions. **89f:26012**

Ying, Mei Qian Scalarization and group decision making. (Chinese summary) **89j:90247**

Items listed otherwise than by author

Multiple criteria decision making ★ Multiple criteria decision making. **89j:90161**

Special issue:

Multiple criteria decision making ★ Multiple criteria decision making. **89j:90161**

90A06 Preferences

Akimov, V. P. (*with* Sergeev, V. M.) Determination of preferences on the basis of post-game analysis of events. **89e:90010**

Alkan, Ahmet Nonexistence of stable threesome matchings. **89m:90006**

Arsham, H. (*with* Dianich, D.) Consumer buying behavior and optimal advertising strategy: the quadratic profit function case. **89g:90008**

Asheim, Geir B. Rawlsian intergenerational justice as a Markov-perfect equilibrium in a resource technology. **89h:90011**

Badran, Yahya Preference ranking of discrete multiattribute instances. **89b:90011**

Bandyopadhyay, Taradas Extension of an order on a set to the power set: some further observations. **89d:90012**

— Revealed preference theory, ordering and the axiom of sequential path independence. **89g:90009**

Bonanno, Giacomo Advertising, perceived quality and strategic entry deterrence and accommodation. **89d:90013**

Bondareva, O. N. Finite approximations of choice on an infinite set. **89j:90008**

Borzenko, V. I. A problem of the theory of choice of options with an incomplete family of entries. (Russian. English summary) **89b:90012**

Clark, Stephen A. An extension theorem for rational choice functions. **89g:90010**

Demchenko, A. M. A membership function construction method. (Chinese summary) **89j:90009**

Dianich, D. *see* **Arsham, H., 89g:90008**

Dutta, Bhaskar Covering sets and a new Condorcet choice correspondence. **89e:90011**

Fedrizzi, Mario *see* **Kacprzyk, Janusz, 89a:90011**

Fishburn, Peter C. (*with* Lavalle, Irving H.) State-dependent SSB utility. **89h:90012**

— (*with* Lavalle, Irving H.) Context-dependent choice with nonlinear and nontransitive preferences. **89k:90007**

Gay, Antonio (*with* Modica, Salvatore) Complete irreflexive preferences: a definition. **89m:90007**

Gensemer, Susan H. On relationships between numerical representations of interval orders and semiorders. **89a:90010**

— Intransitive indifference and incomparability. **89h:90013**

Grabara, Zbigniew Choice of alternatives on the grounds of a fuzzy preference relation. (*see* **89b:03006**)

Gu, Ji Fa (*with* Wang, Xu Zhu) A class of ranking methods of alternatives. (Chinese. English summary) **89h:90014**

Hardin, Russell Pragmatic intuitions and rational choice. (*see* **89d:90019**)

Harsanyi, John C. Individual utilities and utilitarian ethics. (*see* **89d:90019**)

Heineke, J. M. (*with* Shefrin, H. M.) Exact aggregation and the finite basis property. (Not in MR)

Höhle, Ulrich Quotients with respect to similarity relations. **89g:90011**

Hurwicz, Leonid (*with* Jordan, James S.; Kannai, Yakar) On the demand generated by a smooth and concavifiable preference ordering. **89e:90012**

Jordan, James S. *see* **Hurwicz, Leonid; et al., 89e:90012**

Kacprzyk, Janusz (*with* Fedrizzi, Mario) A "soft" measure of consensus in the setting of partial (fuzzy) preferences. **89a:90011**

Kannai, Yakar *see* **Hurwicz, Leonid; et al., 89e:90012**

Karni, Edi (*with* Safra, Zvi) "Preference reversals" and the theory of decision making under risk. **89e:90013**

Kim, Jin Bai (*with* Kymn, Kern O.) Rational choice function derived from a fuzzy preference. **89j:90010**

Kymn, Kern O. *see* **Kim, Jin Bai, 89j:90010**

Lavalle, Irving H. *see* **Fishburn, Peter C., 89h:90012** *and* **89k:90007**

Lerman, I. C. Maximisation de l'association entre deux variables qualitatives ordinales. (English summary) [Maximal association between two ordinal qualitative variables] **89b:90013**

Lin, Kuan Pin (*with* Perry, Stan) A logic programming approach to revealed preference theory. **89j:90011**

— Revealed preference theory and logic programming. (Not in MR)

van Maaren, Hans Generalized pivoting and coalitions. **89g:90012**

Manski, Charles F. Ordinal utility models of decision making under uncertainty. **89h:90015**

Masarani, F. (*with* Sadik Gokturk, S.) On the probabilities of the mutual agreement match. **89e:90014**

McKelvey, Richard D. (*with* Schofield, Norman) Structural instability of the core. **89b:90014**

Modica, Salvatore *see* **Gay, Antonio, 89m:90007**

Montero de Juan, Francisco Javier (*with* Tejada Cazorla, Juan) Fuzzy preferences in decision-making. **89e:90015**

— (*with* Tejada Cazorla, Juan) A necessary and sufficient condition for the existence of Orlovsky's choice set. **89b:90015**

Penot, Jean-Paul Une vue simplifiée de la théorie de la complexité. [A simplified view of complexity theory] **89d:90014**

Perry, Stan *see* **Lin, Kuan Pin, 89j:90011**

Rochet, Jean-Charles A necessary and sufficient condition for rationalizability in a quasilinear context. **89e:90016**

Rozner, F. An arbitrage scheme for proving the maximin choice function. **89i:90006**

Sadik Gokturk, S. *see* **Masarani, F., 89e:90014**

Safra, Zvi *see* **Karni, Edi, 89e:90013**

Sakaguchi, Minoru An entropy model for brand selection behavior. Entry of a new brand. **89a:90012**

Schofield, Norman *see* **McKelvey, Richard D., 89b:90014**

Segal, Uzi (*with* Spivak, Avia; Zeira, Joseph) Precautionary saving and risk aversion. An anticipated utility approach. **89m:90008**

Sergeev, V. M. *see* **Akimov, V. P., 89e:90010**

Shefrin, H. M. *see* **Heineke, J. M., (Not in MR)**

Spivak, Avia *see* **Segal, Uzi; et al., 89m:90008**

Tavares, L. Valadares Generalized transitivity and preferences modelling: the concept of hyper-order. **89h:90016**

Tejada Cazorla, Juan *see* **Montero de Juan, Francisco Javier, 89b:90015** *and* **89e:90015**

Varian, Hal R. Revealed preference with a subset of goods. **89k:90008**

Wakker, Peter Continuity of preference relations for separable topologies. **89g:90013**

Wang, Xu Zhu *see* **Gu, Ji Fa, 89h:90014**

Yaari, Menahem E. Univariate and multivariate comparisons of risk aversion: a new approach. **89h:90017**

Zeira, Joseph *see* **Segal, Uzi; et al., 89m:90008**

Items with secondary classifications in 90A06

Anderson, Robert M. Gap-minimizing prices and quadratic core convergence. **89a:90041**

— The second welfare theorem with nonconvex preferences. **89e:90048**

Bamberg, G. (*with* Coenenberg, Adolf Gerhard) ★ Betriebswirtschaftliche Entscheidungslehre. (German) [Decision theory in industrial management] **89h:90001**

Bridges, Douglas S. The Euclidean distance construction of order homomorphisms. **89g:90037**

Buchanan, Bruce S. A model for repeat paired comparison preference tests. **89e:92049**

Busemeyer, Jerome R. (*with* Forsyth, Barbara; Nozawa, Georgie) Comparisons of elimination by aspects and suppression of aspects choice models based on choice response time. **89j:92079**

Coenenberg, Adolf Gerhard *see* **Bamberg, G., 89h:90001**

Doignon, Jean-Paul Sur les représentations minimales des semiordres et des ordres d'intervalles. (English summary) [On minimal representations of semi-orderings and

orderings of intervals] **89j:92080**
Ester, Jochen ★ Systemanalyse und mehrkriterielle Entscheidung. (German) [Systems analysis and multicriterial decision] **89f:90164**
Fishburn, Peter C. (*with* Lavalle, Irving H.) Transitivity is equivalent to independence for states-additive SSB utilities. **89f:90018**
Forsyth, Barbara *see* **Busemeyer, Jerome R.; et al., 89j:92079**
Garrido, J. M. A. *see* **Gil, María Angeles; et al., 89a:62025**
Gensemer, Susan H. Continuous semiorder representations. **89a:90029**
Giakoumakis, Vassili (*with* Monjardet, B.) Coefficients d'accord entre deux préordres totaux. (English summary) [Coefficients of agreement between two monotone quasi-orders] **89i:62092**
Gil, María Angeles (*with* Garrido, J. M. A.; Gil Álvarez, Pedro Ángel) On a principle of choice among Bayes actions and its application for comparing experiments. (French summary) **89a:62025**
Gil Álvarez, Pedro Ángel *see* **Gil, María Angeles; et al., 89a:62025**
Harsanyi, John C. Assessing other people's utilities. **89a:90032**
Hotz, V. Joseph (*with* Kydland, Finn E.; Sedlacek, Guilherme L.) Intertemporal preferences and labor supply. (Not in MR)
Hurwicz, Leonid On the implementation of social choice rules in irrational societies. **89k:90010**
Jaffray, Jean-Yves An axiomatic model of choice under risk which is compatible with the certainty effect. **89e:90005**
Kalai, Ehud Solutions to the bargaining problem. **89b:90253**
Kleinrock, Leonard (*with* Levy, Hanoch) The analysis of random polling systems. **89h:90100**
Köhler, Eckehart Guidelines for solving Sen's paradox. (*see* **89d:90019**)
Kydland, Finn E. *see* **Hotz, V. Joseph; et al.**, (Not in MR)
Lavalle, Irving H. *see* **Fishburn, Peter C., 89f:90018**
Le Breton, M. (*with* Salles, M.) On the generic emptiness of the local core of voting games. **89a:90167**
— On the core of voting games. **89a:90168**
Levy, Hanoch *see* **Kleinrock, Leonard, 89h:90100**
Marley, A. A. J. Random utility models with binary tree decomposable rank orders satisfy Tversky's elimination-by-aspects model. **89m:92056**
Martínez, M. L. Stochastic dominance for dominated families. (Spanish. English summary) **89a:90035**
(Mas-Colell, Andreu) *see* **Anderson, Robert M., 89e:90048**
Men′shikova, O. R. (*with* Podinovskiĭ, V. V.) Construction of the preference relation and the core in multicriterial problems with inhomogeneous criteria that are ordered with respect to importance. (Russian) **89g:90217**
(Mongin, Philippe) *see* **Harsanyi, John C., 89a:90032**
Monjardet, B. *see* **Giakoumakis, Vassili, 89i:62092**
Montesano, Aldo The risk aversion measure without the independence axiom. **89g:90044**
Morton, S. Strategic voting in repeated referenda. **89k:90012**
Moulin, Hervé (*with* Thomson, William L.) Can everyone benefit from growth? Two difficulties. **89j:90037**
Muellbauer, John Habits, rationality and myopia in the life cycle consumption function. (French summary) **89h:90064**
Nakamura, Yutaka Expected utility with an interval ordered structure. **89k:90023**
Nielsen, Lars Tyge Comparative risk aversion. **89j:90038**
Nozawa, Georgie *see* **Busemeyer, Jerome R.; et al., 89j:92079**
Page, Talbot Pivot mechanisms as a link between probability and preference revelation. **89d:90006**
Patrone, F. (*with* Torre, Anna) Genericity results for convex functions with applications to games and production theory. (Italian summary) **89m:90184**
Podinovskiĭ, V. V. Estimation of the efficiency of decision rules in multicriterial problems. **89j:90240**
— *see also* **Men′shikova, O. R., 89g:90217**
Salles, M. *see* **Le Breton, M., 89a:90167**
Sedlacek, Guilherme L. *see* **Hotz, V. Joseph; et al.**, (Not in MR)
Shi, Shou Yong Rothschild-Stiglitz competitive insurance market under quasilinear preferences. **89h:90053**
Storcken, Ton J. A. Some social choice problems. **89a:90018**
Svensson, L.-G. Fairness, the veil of ignorance and social choice. **89k:90014**
Thomson, William L. *see* **Moulin, Hervé, 89j:90037**
Thon, Dominique (*with* Thorlund-Petersen, Lars) Stochastic dominance and Friedman-Savage utility functions. **89j:90039**
Thorlund-Petersen, Lars *see* **Thon, Dominique, 89j:90039**
Torre, Anna *see* **Patrone, F., 89m:90184**
Trapp, Rainer W. ★ "Nicht-klassischer" Utilitarismus. (German) ["Nonclassical" utilitarianism] **89e:90009**
Varian, Hal R. Estimating risk aversion from Arrow-Debreu portfolio choice. **89j:90030**
Zhukovin, V. E. ★ Нечеткие многокритериальные модели принятия решений. (Russian) [Fuzzy multicriterial models of decision-making] **89h:90136**

90A07 Theory of group behavior

Cramton, P. (*with* Gibbons, Robert Scott; Klemperer, P.) Erratum: "Dissolving a partnership efficiently" [Econometrica **55** (1987), no. 3, 615–632; MR 88f:90018]. **89j:90012**
(Diekmann, Andreas) *see* **Paradoxical effects of social behavior, 89d:90019**
Dominique, C. Rene A note on increasing returns to advertising. (Not in MR)
Farrell, Joseph (*with* Scotchmer, Suzanne) Partnerships. **89d:90015**
Gaertner, Wulf (*with* Jungeilges, Jochen) A nonlinear model of interdependent consumer behaviour. **89h:90018**
Gensch, D. H. (*with* Javalgi, Rajshekhar G.) The role of sequential processing models in marketing research. **89b:90016**
Gibbons, Robert Scott *see* **Cramton, P.; et al., 89j:90012**
Javalgi, Rajshekhar G. *see* **Gensch, D. H., 89b:90016**
Jungeilges, Jochen *see* **Gaertner, Wulf, 89h:90018**
Karimov, I. A. On a group expert estimation of indices measured on a ratio scale. **89j:90013**
Karotkin, Drora (*with* Nitzal, Samuel; Paroush, Jacob) The essential ranking of decision rules in small panels of experts. **89d:90016**
Klemperer, P. *see* **Cramton, P.; et al., 89j:90012**
Köhler, Eckehart Guidelines for solving Sen's paradox. (*see* **89d:90019**)
Korotkova, T. I. *see* **Volkova, T. B., 89d:90018**
Miller, John Boris On safety and rivals in power-structures. **89d:90017**
(Mitter, Peter) *see* **Paradoxical effects of social behavior, 89d:90019**
Muller, Eitan (*with* Satterthwaite, Mark A.) Strategy-proofness: the existence of dominant-strategy mechanisms. **89f:90007**
Nitzal, Samuel *see* **Karotkin, Drora; et al., 89d:90016**
Nitzan, Shmuel (*with* Paroush, Jacob) ★ Collective decision making. **89b:90017**
Paroush, Jacob *see* **Nitzan, Shmuel, 89b:90017** *and* **Karotkin, Drora; et al., 89d:90016**
(Rapoport, Anatol) *see* **Paradoxical effects of social behavior, 89d:90019**
Satterthwaite, Mark A. *see* **Muller, Eitan, 89f:90007**
Scotchmer, Suzanne *see* **Farrell, Joseph, 89d:90015**
Tan, Choon Peng Conditions for consensus using spectral decomposition. **89j:90014**
Troutt, Marvin D. A minimum variance of utility approach to ideal point estimation in certain biased groups. **89a:90013**
Volkova, T. B. (*with* Korotkova, T. I.) A decomposition algorithm for constructing the boundary of a Pareto domain with a minimal level of data on the controllable system. (Russian. English summary) **89d:90018**
Vol′skiĭ, V. I. Rules for the choice of best variants on directed graphs and tournament graphs. **89e:90017**
Wooders, Myrna Holtz Stability of jurisdiction structures in economies with local public goods. **89e:90018**

Items listed otherwise than by author

Paradoxical effects of social behavior ★ Paradoxical effects of social behavior. **89d:90019**

Items with secondary classifications in 90A07

Abdou, J. Neutral veto correspondences with a continuum of alternatives. **89g:90014**
Arnold, Barry C. ★ Majorization and the Lorenz order: a brief introduction. **89a:60046**
Asheim, Geir B. Rawlsian intergenerational justice as a Markov-perfect equilibrium in a resource technology. **89h:90011**
Bamberg, G. (*with* Coenenberg, Adolf Gerhard) ★ Betriebswirtschaftliche Entscheidungslehre. (German) [Decision theory in industrial management] **89h:90001**
Coenenberg, Adolf Gerhard *see* **Bamberg, G., 89h:90001**
Èl′kin, L. N. *see* **Ilyunin, O. K.; et al., 89m:90010**
Gehrig, W. On a characterization of the Shannon concentration measure. **89h:39009**
Harel, Alon (*with* Nitzan, Shmuel) The libertarian resolution of the Paretian liberal paradox. **89h:90020**
Ilyunin, O. K. (*with* Popov, B. V.; Èl′kin, L. N.) Majority functional operators in voting theory. **89m:90010**
Ionova, I. V. (*with* Smirnova, T. G.) ★ Некоторые задачи приближенного агрегирования. (Russian) [Some problems of approximate aggregation] **89e:93005**
Isaac, R. Mark (*with* Walker, James M.) Group size effects in public goods provision: the voluntary contributions mechanism. **89a:90034**
Janowitz, M. F. Induced social welfare functions. **89h:90021**
Lensberg, Terje (*with* Thomson, William L.) Characterizing the Nash bargaining solution without Pareto-optimality. **89g:90252**
Lien, Da-Hsiang Donald Coalitions in competitive bribery games. **89f:90210**
Loewy, Michael B. The incompatibility of valued money and equilibrium policy. (Not in MR)
Moulin, Hervé Egalitarian-equivalent cost sharing of a public good. **89b:90035**
Nitzan, Shmuel *see* **Harel, Alon, 89h:90020**
Popov, B. V. *see* **Ilyunin, O. K.; et al., 89m:90010**
Sholomov, L. A. Functional possibilities and the complexity of choice mechanisms based on worst variant exclusion. **89h:90024**
— (*with* Yudin, D. B.) The complexity of multistep generalized mathematical programming schemas. **89m:90153**
Smirnova, T. G. *see* **Ionova, I. V., 89e:93005**
Svensson, L.-G. Fairness, the veil of ignorance and social choice. **89k:90014**
Thomson, William L. *see* **Lensberg, Terje, 89g:90252**
Vasin, A. A. Modeling the dynamics of group behavior. (Russian) **89f:92062**
Walker, James M. *see* **Isaac, R. Mark, 89a:90034**
Yudin, D. B. *see* **Sholomov, L. A., 89m:90153**

90A08 Social choice, voting

Abdou, J. Neutral veto correspondences with a continuum of alternatives. **89g:90014**
Aĭzerman, M. A. (*with* Gusev, L. A.; Petrov, Sergeĭ Vsevolodovich; Smirnova, I. M.; Tenenbaum, L. A.) Dynamic approach to analysis of structures described by graphs (foundations of graph-dynamics). **89i:90007**
Antsyz, S. M. *see* **Marshak, V. D.; et al.**, (Not in MR)
Arrow, Kenneth J. (*with* Raynaud, Hervé) ★ Social choice and multicriterion decision-making. **89j:90015**
Baigent, Nick Twitching weak dictators. **89h:90019**
Banks, J. S. (*with* Bordes, G. A.) Voting games, indifference, and consistent sequential choice rules. **89f:90008**
Bordes, G. A. *see* **Banks, J. S., 89f:90008**
Brams, Steven J. (*with* Felsenthal, Dan S.; Maoz, Zeev) New chairman paradoxes. (*see* **89d:90019**)
Chupin, V. G. *see* **Marshak, V. D.; et al.**, (Not in MR)
Cowen, Tyler Normative population theory. (Not in MR)
Danilov, V. I. (*with* Sotskov, A. I.) Stable blockings in mechanisms of social choice. (Russian) **89d:90020**
— (*with* Sotskov, A. I.) Coalition-stable mechanisms of group choice. (Russian) **89c:90009**
Deb, Rajat (*with* Kelsey, David) On constructing a generalized Ostrogorski paradox: necessary and sufficient conditions. **89a:90014**

Denicolò, V. Some further results on nonbinary social choice. **89i:90008**
Donaldson, David (*with* Roemer, John E.) Social choice in economic environments with dimensional variation. **89f:90009**
— (*with* Weymark, John A.) Social choice in economic environments. **89m:90009**
Ebert, Udo Rawls and Bentham reconciled. **89c:90010**
Èl'kin, L. N. *see* **Ilyunin, O. K.; et al., 89m:90010**
Emery, Michel Le scrutin proportionnel: plus fort reste ou plus forte moyenne? [Proportional polling: strongest remainder or strongest mean?] **89e:90019**
Felsenthal, Dan S. (*with* Maoz, Zeev) A comparative analysis of sincere and sophisticated voting under the plurality and approval procedures. **89b:90018**
— On combining approval with disapproval voting. **89j:90016**
— *see also* **Brams, Steven J.; et al., (89d:90019)**
Fishburn, Peter C. Corrigendum: "Axioms for approval voting: direct proof" [J. Econom. Theory **19** (1978), no. 1, 180–185; MR 80f:90017]. **89f:90010**
Gaft, M. G. Choice by relation. **89g:90015**
Gehrlein, William V. Probability calculations for transitivity of the simple majority rule. **89j:90017**
Gekker, Ruvin Veto theorems with expansion consistency conditions and without the weak Pareto principle. **89g:90016**
Gevers, Louis Walrasian social choice: some simple axiomatic approaches. **89k:90009**
Gil'burd, M. M. Heuristic methods for constructing the median in a problem of group choice. **89i:90009**
Greenberg, Joseph A strategic aspect of the strong positive association condition. **89e:90020**
Gusev, L. A. *see* **Aĭzerman, M. A.; et al., 89i:90007**
Hammond, Peter J. Consequentialist social norms for public decisions. **89b:90019**
Harel, Alon (*with* Nitzan, Shmuel) The libertarian resolution of the Paretian liberal paradox. **89h:90020**
Hartley, Richard (*with* Kilgour, D. Marc) The geometry of the uncovered set in the three-voter spatial model. **89g:90017**
Holzman, Ron To vote or not to vote: what is the quota? **89j:90018**
Hu, Ji Xuan The end of utopia: on the nondesignability of social systems. (Not in MR)
Hurwicz, Leonid On the implementation of social choice rules in irrational societies. **89k:90010**
Ilyunin, O. K. (*with* Popov, B. V.; Èl'kin, L. N.) Majority functional operators in voting theory. **89m:90010**
Inman, Robert P. Markets, governments, and the "new" political economy. (*see* **89m:90002b**)
Jain, Satish K. Characterization of monotonicity and neutrality for binary Paretian social decision rules. **89j:90019**
Janowitz, M. F. Induced social welfare functions. **89h:90021**
Kelly, J. S. Voting sets. **89a:90015**
— Social choice and computational complexity. **89d:90022**
— Minimal manipulability and local strategy-proofness. **89d:90021**
— Computational complexity. **89j:90020**
— The Ostrogorski paradox. **89m:90011**
Kelsey, David What is responsible for the "Paretian epidemic"? **89m:90012**
— *see also* **Deb, Rajat, 89a:90014**
Kennelly, B. Welfarism, IIA and Arrovian constitutional rules. **89j:90021**
Kilgour, D. Marc *see* **Hartley, Richard, 89g:90017**
Lepelley, Dominique (*with* Mbih, Boniface) The proportion of coalitionally unstable situations under the plurality rule. **89b:90020**
Lezina, Z. M. Procedures for collective choice. (Russian. English summary) **89c:90011**
MacIntyre, I. Justice, liberty, unanimity and the axioms of identity. **89h:90022**
Maoz, Zeev *see* **Felsenthal, Dan S., 89b:90018** *and* **Brams, Steven J.; et al., (89d:90019)**
Marshak, V. D. (*with* Antsyz, S. M.; Chupin, V. G.) A model of the process of the composition of local decisions, taking cooperation into account. (Russian) (Not in MR)
Maskin, Eric S. The theory of implementation in Nash equilibrium: a survey. **89c:90012**
Matsushima, Hitoshi A new approach to the implementation problem. **89g:90018**
Mbih, Boniface *see* **Lepelley, Dominique, 89b:90020**
McKelvey, Richard D. (*with* Schofield, Norman) Generalized symmetry conditions at a core point. **89a:90016**
— (*with* Ordeshook, Peter C.) Elections with limited information: a multidimensional model. **89b:90021**
Moore, John Halstead (*with* Repullo, Rafael) Subgame perfect implementation. **89k:90011**
Morton, S. Strategic voting in repeated referenda. **89k:90012**
Moulin, Hervé Condorcet's principle implies the no show paradox. **89h:90023**
Ng, Yew Kwang Hurka's gamble and Methuselah's paradox: a response to Cowen on normative population theory. (Not in MR)
Nitzan, Shmuel *see* **Harel, Alon, 89h:90020**
Nurmi, Hannu Discrepancies in the outcomes resulting from different voting schemes. **89g:90019**
Ordeshook, Peter C. *see* **McKelvey, Richard D., 89b:90021**
(Penot, Jean-Paul) *see* **Salles, M., 89f:90012**
Petrov, Sergeĭ Vsevolodovich *see* **Aĭzerman, M. A.; et al., 89i:90007**
Ponsard, Claude Fuzzy mathematical models in economics. **89k:90013**
Popov, B. V. *see* **Ilyunin, O. K.; et al., 89m:90010**
Raynaud, Hervé *see* **Arrow, Kenneth J., 89j:90015**
Repullo, Rafael *see* **Moore, John Halstead, 89k:90011**
Roemer, John E. *see* **Donaldson, David, 89f:90009**
Saari, Donald G. Symmetry, voting, and social choice. **89f:90011**
Saijo, Tatsuyoshi Strategy space reduction in Maskin's theorem: sufficient conditions for Nash implementation. **89g:90020**
Salles, M. Remarques sur le théorème d'Arrow tel qu'il est énoncé par Jean-Paul Penot. [Remarks on Arrow's theorem as formulated by Jean-Paul Penot] **89f:90012**
Scarf, Herbert E. Testing for optimality in the absence of convexity. **89e:90021**
Schofield, Norman *see* **McKelvey, Richard D., 89a:90016**
Sen, Amartya Information and invariance in normative choice. **89g:90021**
Sertel, Murat R. Explorations in aggregating choices. **89a:90017**
— Characterizing approval voting. **89g:90022**
— Choice, hull, continuity and fidelity. **89g:90023**
— A nondictatorial compromise. **89e:90022**
Sholomov, L. A. Functional possibilities and the complexity of choice mechanisms based on worst variant exclusion. **89h:90024**
Slivinski, A. Bergson social welfare functions in applied welfare analysis. **89d:90023**
Smirnova, I. M. *see* **Aĭzerman, M. A.; et al., 89i:90007**
Sot·skov, A. I. *see* **Danilov, V. I., 89c:90009** *and* **89d:90020**
Storcken, Ton J. A. Some social choice problems. **89a:90018**
— Continuity and social choice functions. **89f:90013**
Strnad, Jeff Full Nash implementation of neutral social functions. **89a:90019**
Svensson, L.-G. Fairness, the veil of ignorance and social choice. **89k:90014**
Tenenbaum, L. A. *see* **Aĭzerman, M. A.; et al., 89i:90007**
Thomson, William L. A study of choice correspondences in economies with a variable number of agents. **89j:90022**
Weymark, John A. *see* **Donaldson, David, 89m:90009**
Wriglesworth, John L. ★ Libertarian conflicts in social choice. **89g:90024**

Items with secondary classifications in 90A08

Allais, Maurice The general theory of random choices in relation to the invariant cardinal utility function and the specific probability function. The (U, θ) model: a general overview. **89k:90019**
d'Aspremont, Claude Axioms for social welfare orderings. **89a:90026**
Barbarà, Salvador (*with* Jackson, Matthew) Maximin, leximin, and the protective criterion: characterizations and comparisons. **89j:90004**
Bezembinder, Th. Problems of content and structure in utilities for social choice. **89a:90028**
Bondareva, O. N. Finite approximations of choice on an infinite set. **89j:90008**
— Axiomatics of the core and of the von Neumann-Morgenstern solution as fuzzy and nonfuzzy choice functions. **89h:90003**
Cao, Zhi Qiang (*with* Kim, Ki Hang; Roush, F. W.) ★ Incline algebra and applications. **89b:08001**
Carreras Escobar, Francesc (*with* Owen, Guillermo) Evaluation of the Catalonian Parliament, 1980–1984. **89b:90256**
Chandler, Marthe Models of voting behavior in survey research. (Not in MR)
Chun, Youngsub (*with* Thomson, William L.) Monotonicity properties of bargaining solutions when applied to economics. **89d:90252**
Daniłowicz, Czesław (*with* Nguyen Ngoc Thanh) Consensus-based partitions in the space of ordered partitions. **89i:05033**
Dasgupta, Partha Lives and well-being. **89e:92050**
Gaertner, Wulf (*with* Pattanaik, Prasanta K.) An interview with Amartya Sen. **89b:01043**
Hansen, Pierre (*with* Labbé, Martine) Algorithms for voting and competitive location on a network. **89m:90061**
Holzman, Ron Sub-core solutions of the problem of strong implementation. **89g:90251**
Jackson, Matthew *see* **Barbarà, Salvador, 89j:90004**
Kim, Ki Hang *see* **Cao, Zhi Qiang; et al., 89b:08001**
Labbé, Martine *see* **Hansen, Pierre, 89m:90061**
Maskin, Eric S. Optimal Bayesian mechanisms. **89e:90035**
Muller, Eitan (*with* Satterthwaite, Mark A.) Strategy-proofness: the existence of dominant-strategy mechanisms. **89f:90007**
Myerson, Roger B. Negotiation in games: a theoretical overview. **89b:90240**
Nguyen Ngoc Thanh *see* **Daniłowicz, Czesław, 89i:05033**
Owen, Guillermo *see* **Carreras Escobar, Francesc, 89b:90256**
Pattanaik, Prasanta K. *see* **Gaertner, Wulf, 89b:01043**
Peleg, B. Cores and capacities of compound simple games. **89a:90172**
Roush, F. W. *see* **Cao, Zhi Qiang; et al., 89b:08001**
Satterthwaite, Mark A. *see* **Muller, Eitan, 89f:90007**
(Sen, Amartya) *see* **Gaertner, Wulf, 89b:01043**
Thomson, William L. *see* **Chun, Youngsub, 89d:90252**

90A09 Portfolio theory and financial economics

Aase, Knut K. (*with* Guttorp, Peter) Estimation in models for security prices. (Not in MR)
— Contingent claims valuation when the security price is a combination of an Itô process and a random point process. **89k:90015**
Ahn, Chang Mo (*with* Thompson, Howard E.) Jump-diffusion processes and the term structure of interest rates. **89a:90020**
Albach, Horst (*with* Franke, Bernd; Werhahn, Michael) Bemerkungen zur Theorie der Investitionsketten. [Remarks on the theory of investment chains] **89m:90013**
Algoet, Paul H. (*with* Cover, Thomas M.) Asymptotic optimality and asymptotic equipartition properties of log-optimum investment. **89h:90025**
Appelbaum, E. (*with* Katz, Eliakim) Portfolio diversification and taxation. (Not in MR)
Artus, Patrick (*with* Muet, Pierre-Alain) Investissement, contraintes de débouchés d'emploi et contraintes financières: estimation d'un modèle à plusieurs régimes. [Investment, job opening constraints and financial constraints: estimation of a multiregime model] (*see* **89d:90065**)
Assaf, David *see* **Taksar, Michael; et al., 89d:90028**
Ball, Clifford A. Estimation bias induced by discrete security prices. **89g:90025**
Barron, Andrew R. (*with* Cover, Thomas M.) A bound on the financial value of information. **89k:90016**
Bell, Robert (*with* Cover, Thomas M.) Game-theoretic optimal portfolios. **89c:90013**
Bonanno, Giacomo Can good news lead to a more pessimistic choice of action? **89k:90017**
Brennan, Michael J. (*with* Schwartz, Eduardo S.) Time-invariant portfolio insurance strategies. **89c:90014**
Buchholz, Wolfgang (*with* Richter, W. F.; Schwaiger, J.) Distributional implications of equal sacrifice rules. **89e:90023**
Bühlmann, H. Entwicklungstendenzen in der Risikotheorie. [Trends of development in risk theory] **89g:90026**
Buiter, Willem H. Efficient "myopic" asset pricing in general equilibrium. A potential pitfall in excess volatility tests. **89b:90022**
Carr, Peter The valuation of sequential exchange opportunities. (Not in MR)
Centeno, Lourdes The expected utility applied to reinsurance. **89b:90023**

Cerchi, Marlene (*with* Havenner, Arthur) Cointegration and stock prices: the random walk on Wall Street revisited. (*see* **89j:62004**)

Cheung, C. Sherman (*with* Kwan, Clarence C. Y.) A note on simple criteria for optimal portfolio selection. (Not in MR)

Chuang, Chung Chu Fuzzy weighted average present value index: a fuzzy set methodology of project set evaluation in capital budgeting. **89k:90018**

Cohen, Susan I. (*with* Starks, Laura T.) Estimation risk and incentive contracts for portfolio managers. **89f:90014**

Cover, Thomas M. *see* **Bell, Robert, 89c:90013; Algoet, Paul H., 89h:90025** *and* **Barron, Andrew R., 89k:90016**

Cummins, J. David Risk-based premiums for insurance guaranty funds. (Not in MR)

Dekel, Eddie Asset demands without the independence axiom. **89m:90014**

Dermody, Jaime Cuevas (*with* Prisman, Eliezer Zeev) Term structure multiplicity and clientele in markets with transactions costs and taxes. (Not in MR)

Dubey, P. (*with* Shubik, Martin) A note on an optimal garnishing rule. **89h:90026**

Duffie, Darrell An extension of the Black-Scholes model of security valuation. **89j:90023**

Eastham, Jerome F. (*with* Hastings, Kevin J.) Optimal impulse control of portfolios. **89m:90015**

(Eisner, Robert) *see* **Artus, Patrick**, (**89d:90065**)

Farquhar, Peter H. (*with* Nakamura, Yutaka) Constant exchange risk properties. **89f:90015**

Feilmeier, Manfred Entwicklung der Lebensversicherungsmathematik im Rahmen von Datenbanken. [Development of life insurance mathematics in the framework of data banks] (*see* **89i:00018**)

Flåm, S. D. (*with* Hastings, Kevin J.) On adjustment costs, profit uncertainty and investment behavior. **89b:90024**

(Fleurbaey, Marc) *see* **Grandmont, Jean-Michel, 89f:90016**

Franke, Bernd *see* **Albach, Horst; et al., 89m:90013**

Gerber, Hans U. (*with* Shiu, Elias S. W.) Nonuniqueness of option prices. **89i:90010**

Glover, Fred (*with* Jones, C. Kenneth) A stochastic generalized network model and large-scale mean-variance algorithm for portfolio selection. **89m:90016**

Grandmont, Jean-Michel ★ Monnaie et valeur. (French) [Money and value] **89f:90016**

Guttorp, Peter *see* **Aase, Knut K.**, (Not in MR)

Hadar, Josef (*with* Seo, Tae Kun) Asset proportions in optimal portfolios. **89g:90027**

Harpaz, Giora The nonoptimality of the over-the-counter options dividend protection. (Not in MR)

Hart, Oliver D. (*with* Moore, John Halstead) Incomplete contracts and renegotiation. **89e:90024**

Hastings, Kevin J. *see* **Flåm, S. D., 89b:90024** *and* **Eastham, Jerome F., 89m:90015**

Haurie, A. (*with* Hollander, A.) A note on incremental incentives in continuous time. **89j:90024**

Havenner, Arthur *see* **Cerchi, Marlene**, (**89j:62004**)

Helms, Billy P. *see* **Jean, William H., 89d:90024**

Hollander, A. *see* **Haurie, A., 89j:90024**

Ito, Takatoshi Implicit contracts and risk aversion. **89e:90025**

Jean, William H. (*with* Helms, Billy P.) Necessary conditions for stochastic dominance: a general approach. **89d:90024**

Jones, C. Kenneth *see* **Glover, Fred, 89m:90016**

Karatzas, Ioannis (*with* Lehoczky, John P.; Shreve, Steven E.) Optimal portfolio and consumption decisions for a "small investor" on a finite horizon. **89d:90025**

Katz, Eliakim *see* **Appelbaum, E.**, (Not in MR)

Kazemi, Hossein B. A multiperiod asset-pricing model with unobservable market portfolio: a note. **89m:90017**

Kemna, A. G. Z. (*with* Vorst, Ton) The value of an option based on an average security value. **89e:90026**

Kischka, Peter Bayesian methods in multiperiod financial decision making. **89a:90021**

Klass, Michael J. *see* **Taksar, Michael; et al., 89d:90028**

Krouse, Clement G. ★ Capital markets and prices. **89a:90022**

Kuné, J. B. On optimal financing of pension programs and Aaron's rule. (French and German summaries) **89g:90028**

Kunsch, P. L. *see* **Teghem, J., Jr.**, (**89g:90136**)

Kwan, Clarence C. Y. *see* **Cheung, C. Sherman**, (Not in MR)

Lee, Cheng F. *see* **Wei, K. C. John, 89m:90019**

Lee, Wayne Y. (*with* Rao, Ramesh K. S.) Mean lower partial moment valuation and lognormally distributed returns. **89d:90026**

Lehoczky, John P. (*with* Sethi, Suresh P.; Shreve, Steven E.) A martingale formulation for optimal consumption/investment decision making. **89b:90025**

— *see also* **Karatzas, Ioannis; et al., 89d:90025**

Lewis, Alan L. A simple algorithm for the portfolio selection problem. **89b:90026**

Machina, Mark J. (*with* Neilson, William S.) The Ross characterization of risk aversion: strengthening and extension. **89a:90023**

Malcomson, James M. (*with* Spinnewyn, Frans) The multiperiod principal-agent problem. **89e:90027**

Mann, Duncan P. (*with* Wissink, Jennifer P.) Money-back contracts with double moral hazard. **89g:90029**

(Merton, Robert C.) *see* **Sethi, Suresh P., 89j:90028**

Milde, Hellmuth (*with* Riley, John G.) Signaling in credit markets. **89a:90024**

Millner, Edward L. (*with* Pratt, Michael D.; Reilly, Robert J.) A re-examination of Harrison's experimental test for risk aversion. **89m:90018**

Mills, David E. Preemptive investment timing. (Not in MR)

Milne, Frank Arbitrage and diversification in a general equilibrium asset economy. **89j:90025**

van Moeseke, Paul Efficient portfolios: risk shares and monetary policy. **89c:90015**

Moore, John Halstead *see* **Hart, Oliver D., 89e:90024**

Muet, Pierre-Alain *see* **Artus, Patrick**, (**89d:90065**)

Nakamura, Yutaka *see* **Farquhar, Peter H., 89f:90015**

Nauss, Robert M. On the use of internal rate of return in linear and integer programming. **89j:90026**

Neilson, William S. *see* **Machina, Mark J., 89a:90023**

Nielsen, Lars Tyge Portfolio selection in the mean-variance model: a note. **89a:90025**

O'Neill, William D. The coding theorem and ordinary least-squares models in economics. (*see* **89d:00007**)

Polemarchakis, H. M. Portfolio choice, exchange rates, and indeterminacy. **89j:90027**

Pope, Rulon D. A new parametric test for the structure of risk preferences. **89h:90027**

Posner, Morton J. *see* **Tapiero, Charles S., 89e:90028**

Pratt, Michael D. *see* **Millner, Edward L.; et al., 89m:90018**

Prisman, Eliezer Zeev *see* **Dermody, Jaime Cuevas**, (Not in MR)

Rao, Ramesh K. S. *see* **Lee, Wayne Y., 89d:90026**

Reilly, Robert J. *see* **Millner, Edward L.; et al., 89m:90018**

Richter, W. F. *see* **Buchholz, Wolfgang; et al., 89e:90023**

Riley, John G. *see* **Milde, Hellmuth, 89a:90024**

Riordan, Michael H. (*with* Sappington, David E. M.) Optimal contracts with public ex post information. **89d:90027**

Russel, Thomas Continuous time portfolio theory and the Schwartz/Sobolev theory of distributions. **89g:90030**

Sappington, David E. M. *see* **Riordan, Michael H., 89d:90027**

Schwaiger, J. *see* **Buchholz, Wolfgang; et al., 89e:90023**

Schwartz, Eduardo S. *see* **Brennan, Michael J., 89c:90014**

Seo, Tae Kun *see* **Hadar, Josef, 89g:90027**

Sethi, Suresh P. (*with* Taksar, Michael) A note on R. C. Merton's: "Optimum consumption and portfolio rules in a continuous-time model" [J. Econom. Theory **3** (1971), no. 4, 373–413; MR **56** #14599; erratum; MR **56** #14600]. **89j:90028**

— *see also* **Lehoczky, John P.; et al., 89b:90025**

Shapiro, Jeremy F. Stochastic programming models for dedicated portfolio selection. (*see* **89g:90136**)

Shiu, Elias S. W. *see* **Gerber, Hans U., 89i:90010**

Shreve, Steven E. *see* **Lehoczky, John P.; et al., 89b:90025** *and* **Karatzas, Ioannis; et al., 89d:90025**

Shubik, Martin *see* **Dubey, P., 89h:90026**

Spinnewyn, Frans *see* **Malcomson, James M., 89e:90027**

Starks, Laura T. *see* **Cohen, Susan I., 89f:90014**

Taksar, Michael (*with* Klass, Michael J.; Assaf, David) A diffusion model for optimal portfolio selection in the presence of brokerage fees. **89d:90028**

— *see also* **Sethi, Suresh P., 89j:90028**

Tapiero, Charles S. (*with* Posner, Morton J.) Warranty reserving. **89e:90028**

Teghem, J., Jr. (*with* Kunsch, P. L.) An interactive DSS for multiobjective investment planning. (*see* **89g:90136**)

Thompson, Howard E. *see* **Ahn, Chang Mo, 89a:90020**

Tiemann, Jonathan Exact arbitrage pricing and the minimum-variance frontier. **89c:90016**

Vaĭnu, Ya. Ya.-F. Analysis of the influence of fund-forming indices on the size of a financial stimulation fund. (Russian) (Not in MR)

Vajda, Steven A maximin investment problem. **89j:90029**

Varian, Hal R. Estimating risk aversion from Arrow-Debreu portfolio choice. **89j:90030**

Vorst, Ton *see* **Kemna, A. G. Z., 89e:90026**

Wei, K. C. John (*with* Lee, Cheng F.) The generalized Stein/Rubinstein covariance formula and its application to estimate real systematic risk. **89m:90019**

Werhahn, Michael *see* **Albach, Horst; et al., 89m:90013**

Wissink, Jennifer P. *see* **Mann, Duncan P., 89g:90029**

Items with secondary classifications in 90A09

Abdalla, Adil E. A. A characterization of employment distortions in labor contracts with asymmetric information. (Not in MR)

Ajne, Björn (*with* Palmgren, Björn) Interview with Harald Bohman. **89a:01049**

Bernanke, Ben (*with* Bohn, Henning; Reiss, Peter C.) Alternative nonnested specification tests of time-series investment models. (Not in MR)

(Bohman, Harald) *see* **Ajne, Björn, 89a:01049**

Bohn, Henning *see* **Bernanke, Ben; et al.**, (Not in MR)

de Boissieu, Christian Demande de monnaie et politique monétaire. [The demand for money and monetary policy] (*see* **89f:90002**)

Boogaert, P. (*with* Haezendonck, J.; Delbaen, F.) Limit theorems for the present value of the surplus of an insurance portfolio. **89h:62165**

Cochrane, John H. (*with* Sbordone, Argia M.) Multivariate estimates of the permanent components of GNP and stock prices. (*see* **89j:62004**)

Delbaen, F. *see* **Boogaert, P.; et al., 89h:62165**

DeMarzo, Peter M. An extension of the Modigliani-Miller theorem to stochastic economies with incomplete markets and interdependent securities. **89g:90057**

Duffie, Darrell Stochastic equilibria with incomplete financial markets. **89f:90025**

Emons, Winand Warranties, moral hazard, and the lemons problem. **89g:90039**

Garrido, José Diffusion premiums for claim severities subject to inflation. **89e:62135**

Geanakoplos, John D. (*with* Polemarchakis, H. M.) Existence, regularity, and constrained suboptimality of competitive allocations when the asset market is incomplete. **89f:90026**

Gerber, Hans U. Mathematical fun with ruin theory. **89m:62110**

Haezendonck, J. *see* **Boogaert, P.; et al., 89h:62165**

Hagen, Ole Some paradoxes in economics. (*see* **89d:90019**)

Haller, Hans Competition in a stock market with small firms. **89h:90033**

Jacque, Laurent L. (*with* Tapiero, Charles S.) Premium valuation in international insurance. **89e:62136**

Jewell, W. S. Lectures on utility and risk theory. **89b:90030**

Kast, Robert A generalisation of rational behaviour. **89e:90034**

(Labadie, Pamela) *see* **Salyer, Kevin D., 89h:90039**

Madan, Dilip B. Risk measurement in semimartingale models with multiple consumption goods. **89d:90037**

Mathur, Kamlesh (*with* Salkin, Harvey M.; Morito, Susumu) An efficient algorithm for the general multiple-choice knapsack problem (GMKP). **89b:90141**

Morito, Susumu *see* **Mathur, Kamlesh; et al., 89b:90141**

Ojeda, Mario Miguel On fiducial inference. (Spanish) (*see* **89k:00010**)

Östermark, Ralf Optimal compromising within a multicriterial conflict zone. **89b:90113**

Palmgren, Björn *see* **Ajne, Björn, 89a:01049**

Polemarchakis, H. M. *see* **Geanakoplos, John D., 89f:90026**

Ramlau-Hansen, Henrik Yields on lottery bonds. **89e:62137**

Reiss, Peter C. *see* **Bernanke, Ben; et al.**, (Not in MR)
Salkin, Harvey M. *see* **Mathur, Kamlesh; et al.**, **89b:90141**
Salyer, Kevin D. A note: "Comparative dynamics and risk premia in an overlapping generations model" [Rev. Econom. Stud. **53** (1986), no. 1, 139–152; MR 87b:90023] by P. Labadie. **89h:90039**
Sandmo, Agnar The effects of taxation on savings and risk taking. (*see* **89m:90002a**)
Sbordone, Argia M. *see* **Cochrane, John H.**, (**89j:62004**)
Segal, Uzi (*with* Spivak, Avia; Zeira, Joseph) Precautionary saving and risk aversion. An anticipated utility approach. **89m:90008**
Sengupta, Jati K. ★ Stochastic optimization and economic models. **89e:90003**
Singhal, Vinod R. Inventories, risk, and the value of the firm. **89e:90042**
Skala, Heinz J. On σ-additive priors, σ-coherence, and the existence of posteriors. **89c:62008**
Spivak, Avia *see* **Segal, Uzi; et al.**, **89m:90008**
Tapiero, Charles S. ★ Applied stochastic models and control in management. **89e:90075**
— *see also* **Jacque, Laurent L.**, **89e:62136**
Zeira, Joseph *see* **Segal, Uzi; et al.**, **89m:90008**

90A10 Utility theory

Allais, Maurice A new neo-Bernoullian theory: the Machina theory. A critical analysis. **89d:90029**
— The general theory of random choices in relation to the invariant cardinal utility function and the specific probability function. The (U, θ) model: a general overview. **89k:90019**
Anas, Alex (*with* Feng, Cheng Min) Invariance of expected utilities in logit models. **89g:90032**
Anderson, Simon P. (*with* de Palma, André; Thisse, Jacques-François) A representative consumer theory of the logit model. **89m:90020**
d'Aspremont, Claude Axioms for social welfare orderings. **89a:90026**
Atkinson, A. B. Income maintenance and social insurance. (*see* **89m:90002b**)
Auerbach, Alan J. The theory of excess burden and optimal taxation. (*see* **89m:90002a**)
Aumann, Robert J. Value, symmetry, and equal treatment: a comment on A. J. Scafuri and N. C. Yannelis: "Nonsymmetric cardinal value allocations" [Econometrica **52** (1984), no. 6, 1365–1368; MR 85m:90003]. **89b:90027**
Bamberg, G. (*with* Richter, W. F.) Decision-theoretic analysis of envisaged income tax reforms for FRG and USA. (*see* **89k:00007**)
Barlow, Richard Utility theory. **89d:90030**
Barron, F. Hutton (*with* Schmidt, Charles P.) Entropy-based selection with multiple objectives. **89k:90020**
Becker, Joao L. (*with* Sarin, Rakesh K.) Lottery dependent utility. **89a:90027**
Bell, David E. One-switch utility functions and a measure of risk. **89j:90031**
Benhabib, Jess (*with* Jafarey, Saqib; Nishimura, Kazuo) The dynamics of efficient intertemporal allocations with many agents, recursive preferences, and production. **89g:90033**
Besley, Timothy Tied-in credit with a monopoly product market. **89j:90032**
Bezembinder, Th. Problems of content and structure in utilities for social choice. **89a:90028**
Blackorby, Charles (*with* Donaldson, David) Money metric utility: a harmless normalization? **89g:90034**
Blair, Roger D. (*with* Romano, Richard E.) The influence of attitudes toward risk on the value of forecasting. **89g:90035**
Bordley, Robert F. An additive group utility for a fund manager. **89g:90036**
Bouyssou, Denis (*with* Vansnick, Jean-Claude) A note on the relationships between utility and value functions. **89c:90017**
Bridges, Douglas S. The Euclidean distance construction of order homomorphisms. **89g:90037**
Chakravarty, Satya R. Extended Gini indices of inequality. **89e:90029**
Chew, Soo Hong (*with* Epstein, Larry G.; Zilcha, Itzhak) A correspondence theorem between expected utility and smooth utility. **89i:90011**
Cohen, Michèle (*with* Jaffray, Jean-Yves) Preponderance of the certainty effect over probability distortion in decision making under risk. **89f:90017**
da Costa Werlang, Sérgio Ribeiro *see* **Dow, James**, **89c:90018**
Donaldson, David *see* **Blackorby, Charles**, **89g:90034**
Dow, James (*with* da Costa Werlang, Sérgio Ribeiro) The consistency of welfare judgments with a representative consumer. **89c:90018**
Drèze, Jacques H. Moral expectation with moral hazard. **89g:90038**
Ebert, Udo Measurement of inequality: an attempt at unification and generalization. **89j:90033**
Eells, Ellery Learning with detachment: reply to Maher. **89d:90032**
Eichhorn, W. On a class of inequality measures. **89e:90030**
Emons, Winand Warranties, moral hazard, and the lemons problem. **89g:90039**
Epstein, Larry G. *see* **Chew, Soo Hong; et al.**, **89i:90011**
Farquhar, Peter H. (*with* Nakamura, Yutaka) Utility assessment procedures for polynomial-exponential functions. **89k:90021**
Feng, Cheng Min *see* **Anas, Alex**, **89g:90032**
Fishburn, Peter C. ★ Nonlinear preference and utility theory. **89k:90022**
— (*with* Lavalle, Irving H.) Transitivity is equivalent to independence for states-additive SSB utilities. **89f:90018**
Foster, James E. (*with* Shorrocks, Anthony F.) Poverty orderings. **89b:90028**
— (*with* Shorrocks, Anthony F.) Poverty orderings and welfare dominance. **89g:90040**
Gavrilets, Yu. N. Using utility functions in economic analysis. (Russian) **89m:90021**
Gensemer, Susan H. Continuous semiorder representations. **89a:90029**
Gurevich, E. S. (*with* Naumov, G. E.) An interval representation of utility. (Russian. English summary) **89e:90031**
Hackman, Steven T. (*with* Passy, Ury) Projectively-convex sets and functions. **89f:90019**
Hagen, Ole Some paradoxes in economics. (*see* **89d:90019**)
Harrison, Terry P. (*with* Rosenthal, Richard E.) Optimizability of utility and value functions. **89a:90030**
Harsanyi, John C. Utilitarian morality in a world of very half-hearted altruists. **89a:90031**
— ★ Rational behavior and bargaining equilibrium in games and social situations. **89e:90032**
— Assessing other people's utilities. **89a:90032**
Hausman, Jerry A. Taxes and labor supply. (*see* **89m:90002a**)
Hikita, Shiro *see* **Tamura, Hiroyuki**, **89d:90033**
Honkapohja, Seppo On continuity of compensated demand. **89b:90029**
Huo, Teh M. Observational equivalence of the overlapping-generations and the cash-in-advance economies. **89a:90033**
Hurwicz, Leonid (*with* Marschak, Thomas) Discrete allocation mechanisms: dimensional requirements for resource-allocation mechanisms when desired outcomes are unbounded. **89e:90033**
Isaac, R. Mark (*with* Walker, James M.) Group size effects in public goods provision: the voluntary contributions mechanism. **89a:90034**
Ishii, Yasunori Welfare and efficiency under uncertainty. **89h:90028**
Jafarey, Saqib *see* **Benhabib, Jess; et al.**, **89g:90033**
Jaffray, Jean-Yves Choice under risk and the security factor: an axiomatic model. **89f:90020**
— Some experimental findings on decision making under risk and their implications. **89m:90022**
— *see also* **Cohen, Michèle**, **89f:90017**
Jewell, W. S. Lectures on utility and risk theory. **89b:90030**
Kadane, Joseph B. (*with* Winkler, Robert L.) Separating probability elicitation from utilities. **89i:90012**
Kanbur, S. M. Ravi (*with* Strömberg, Jan-Olov) Income transitions and income distribution dominance. **89g:90041**
Karni, Edi On the equivalence between descending bid auctions and first price sealed bid auctions. **89m:90023**
Kast, Robert A generalisation of rational behaviour. **89e:90034**
Keeney, R. L. Building models of values. **89j:90034**
Kotlikoff, Laurence J. (*with* Summers, Lawrence H.) Tax incidence. (*see* **89m:90002b**)
Lavalle, Irving H. *see* **Fishburn, Peter C.**, **89f:90018**
Leach, John Underemployment with liquidity-constrained multiperiod firms. **89c:90019**
Lin, Shiow Nan (*with* Shie, Yea-Chin) On standard fuzzy numbers operations and applications. **89j:90035**
Loomes, Graham Different experimental procedures for obtaining valuations of risky actions: implications for utility theory. (Not in MR)
Machina, Mark J. Cardinal properties of "local utility functions". **89g:90042**
Maher, Patrick Causality in the logic of decision. **89d:90031**
Marschak, Thomas Independence versus dominance in personal probability axioms. **89g:90043**
— *see also* **Hurwicz, Leonid**, **89e:90033**
Martínez, M. L. Stochastic dominance for dominated families. (Spanish. English summary) **89a:90035**
Maskin, Eric S. Optimal Bayesian mechanisms. **89e:90035**
Mehta, Ghanshyam Some general theorems on the existence of order-preserving functions. **89j:90036**
Mills, J. A. The Bayesian learning model of expectations as a solution to the Lucas critique: some empirical evidence. (*see* **89d:00007**)
(Mongin, Philippe) *see* **Harsanyi, John C.**, **89a:90032**
Montesano, Aldo A generalized measure of risk aversion, without the independence axiom. **89f:90021**
— The risk aversion measure without the independence axiom. **89g:90044**
Moulin, Hervé (*with* Thomson, William L.) Can everyone benefit from growth? Two difficulties. **89j:90037**
Moyes, P. A note on minimally progressive taxation and absolute income inequality. (Not in MR)
Musgrave, R. A. A brief history of fiscal doctrine. (*see* **89m:90002a**)
Nakamura, Yutaka Expected utility with an interval ordered structure. **89k:90023**
— *see also* **Farquhar, Peter H.**, **89k:90021**
Narens, L. Meaningfulness and the Erlanger program of Felix Klein. (French summary) **89g:90045**
Naumov, G. E. *see* **Gurevich, E. S.**, **89e:90031**
Nielsen, Lars Tyge Comparative risk aversion. **89j:90038**
Nishimura, Kazuo *see* **Benhabib, Jess; et al.**, **89g:90033**
de Palma, André *see* **Anderson, Simon P.; et al.**, **89m:90020**
Passy, Ury *see* **Hackman, Steven T.**, **89f:90019**
Pokropp, Fritz Existence of aggregates without monotonicity and continuity assumptions. **89e:90036**
Pope, Robin Elizabeth The Bayesian approach: irreconcilable with expected utility theory? **89b:90031**
Ramsey, James B. Probability of ruin: a useful alternative to the expected utility hypothesis in firm decision making. (*see* **89f:90002**)
Richter, W. F. *see* **Bamberg, G.**, (**89k:00007**)
Rogerson, William P. Price advertising and the deterioration of product quality. (Not in MR)
Romano, Richard E. *see* **Blair, Roger D.**, **89g:90035**
Rosenthal, Richard E. *see* **Harrison, Terry P.**, **89a:90030**
Sandmo, Agnar The effects of taxation on savings and risk taking. (*see* **89m:90002a**)
Sarin, Rakesh K. *see* **Becker, Joao L.**, **89a:90027**
(Scafuri, Allen J.) *see* **Aumann, Robert J.**, **89b:90027**
Scarsini, M. Dominance conditions for multivariate utility functions. **89c:90020**
Schmidt, Charles P. *see* **Barron, F. Hutton**, **89k:90020**
Serra, Pablo The excess utility functions and the welfare adjustment process. **89e:90037**
Shie, Yea-Chin *see* **Lin, Shiow Nan**, **89j:90035**
Shorrocks, Anthony F. *see* **Foster, James E.**, **89b:90028** *and* **89g:90040**
Sproule, Robert A. Consistent preferences and the allocation of effort under uncertainty. The case of risk-averse behavior. **89c:90021**
Starrett, David A. On the social risk premium. **89b:90032**
von Stengel, Bernhard Substitution decomposition of multilinear functions with applications to utility and game theory. **89e:90038**
Strömberg, Jan-Olov *see* **Kanbur, S. M. Ravi**, **89g:90041**
Summers, Lawrence H. *see* **Kotlikoff, Laurence J.**, (**89m:90002b**)

Suppes, P. Lorenz curves for various processes: a pluralistic approach to equity. **89e:90039**
Syed, Sabbir Ahmed General separable cost allocation method. **89g:90031**
Tamura, Hiroyuki (*with* Hikita, Shiro) On measurable multiattribute value functions based on finite-order independence of structural difference. **89d:90033**
Tangyan, A. S. Representation of weak ordering by a numerical function. **89k:90024**
Thisse, Jacques-François *see* **Anderson, Simon P.; et al., 89m:90020**
Thomas, Jonathan (*with* Worrall, Tim) Self-enforcing wage contracts. (Not in MR)
Thomson, William L. *see* **Moulin, Hervé, 89j:90037**
Thon, Dominique Redistributive properties of progressive taxation. **89b:90033**
— (*with* Thorlund-Petersen, Lars) Stochastic dominance and Friedman-Savage utility functions. **89j:90039**
Thorlund-Petersen, Lars *see* **Thon, Dominique, 89j:90039**
Vansnick, Jean-Claude *see* **Bouyssou, Denis, 89c:90017**
Wakker, Peter Subjective probabilities for state dependent continuous utility. **89d:90034**
Walker, James M. *see* **Isaac, R. Mark, 89a:90034**
Weiss, Michael D. Expected utility theory without continuous preferences. **89b:90034**
Winkler, Robert L. *see* **Kadane, Joseph B., 89i:90012**
Worrall, Tim *see* **Thomas, Jonathan,** (Not in MR)
Xie, Zhi Gang A model of weighted utility expectation for nonnumerical sets of outcomes. (Chinese. English summary) **89j:90040**
Yaari, Menahem E. A controversial proposal concerning inequality measurement. **89c:90022**
(Yannelis, Nicholas C.) *see* **Aumann, Robert J., 89b:90027**
Young, H. P. On dividing an amount according to individual claims or liabilities. **89f:90022**
— Distributive justice in taxation. (Not in MR)
Zaraś, Kazimierz The second stochastic inverse dominance in expected utility analysis. **89i:90013**
Zheng, Quan Decisions and utility. (Chinese) (Not in MR)
Zilcha, Itzhak *see* **Chew, Soo Hong; et al., 89i:90011**

Items with secondary classifications in 90A10

Aiyagari, S. Rao Nonmonetary steady states in stationary overlapping generations models with long lived agents and discounting: multiplicity, optimality, and consumption smoothing. **89g:90077**
Appelbaum, E. (*with* Katz, Eliakim) Portfolio diversification and taxation. (Not in MR)
Arnold, Barry C. ★ Majorization and the Lorenz order: a brief introduction. **89a:60046**
Avriel, Mordecai (*with* Diewert, Walter E.; Schaible, Siegfried; Zang, Israel) ★ Generalized concavity. **89e:90155**
Barron, E. N. (*with* Jensen, Robert) Total risk aversion, stochastic optimal control, and differential games. **89k:90203**
Brusco, Sandro Heterogeneous distribution of information and convergence to rational expectations equilibrium in a partial equilibrium model. **89j:90045**
Castaing, C. Compacité dans l'espace des mesures de probabilité de transition. [Compactness in the space of transition probability measures] **89a:46061**
de Castro, Constancio Introduction to axiomatic measurement in behavioral science. I. Order structures. (Spanish. English summary) **89m:92053**
Centeno, Lourdes The expected utility applied to reinsurance. **89b:90023**
Cowen, Tyler (*with* High, Jack) Time, bounded utility, and the St. Petersburg paradox. **89m:90172**
Dantzig, George B. (*with* McAllister, Patrick H.; Stone, John C.) Formulating an objective for an economy. **89h:90041**
Dasgupta, Partha Lives and well-being. **89e:92050**
Diekmann, Andreas *see* **Paterson, Iain, 89g:90266**
Diewert, Walter E. *see* **Avriel, Mordecai; et al., 89e:90155**
Dockner, Engelbert J. *see* **Neck, Reinhard, 89k:90040**
Drèze, Jacques H. ★ Essays on economic decisions under uncertainty. **89c:01098**
Ebert, Udo A family of aggregative compromise inequality measures. **89k:90045**
Farquhar, Peter H. (*with* Nakamura, Yutaka) Constant exchange risk properties. **89f:90015**
Feldman, Mark An example of convergence to rational expectations with heterogeneous beliefs. **89h:90043**
— Bayesian learning and convergence to rational expectations. **89b:90045**
Fishburn, Peter C. (*with* Lavalle, Irving H.) Context-dependent choice with nonlinear and nontransitive preferences. **89k:90007**
— (*with* Lavalle, Irving H.) The structure of SSB utilities for decision under uncertainty. **89f:90005**
Garrido, J. M. A. *see* **Gil, María Angeles; et al., 89a:62025**
Gay, Antonio (*with* Modica, Salvatore) Complete irreflexive preferences: a definition. **89m:90007**
Gensemer, Susan H. On relationships between numerical representations of interval orders and semiorders. **89a:90010**
Gil, María Angeles (*with* Garrido, J. M. A.; Gil Álvarez, Pedro Ángel) On a principle of choice among Bayes actions and its application for comparing experiments. (French summary) **89a:62025**
Gil Álvarez, Pedro Ángel *see* **Gil, María Angeles; et al., 89a:62025**
Gilboa, Itzhak A combination of expected utility and maximin decision criteria. **89m:90004**
Goldstein, Michael Adjusting belief structures. **89i:62011**
Hammond, Peter J. Consequentialist social norms for public decisions. **89b:90019**
— Consequentialist demographic norms and parenting rights. (Not in MR)
Harsanyi, John C. Individual utilities and utilitarian ethics. (*see* **89d:90019**)
Helms, Billy P. *see* **Jean, William H., 89d:90024**
High, Jack *see* **Cowen, Tyler, 89m:90172**
Hu, Ji Xuan The end of utopia: on the nondesignability of social systems. (Not in MR)
Hurwicz, Leonid (*with* Jordan, James S.; Kannai, Yakar) On the demand generated by a smooth and concavifiable preference ordering. **89e:90012**
Ichihashi, H. *see* **Inuiguchi, Masahiro; et al., 89b:90126**
Inuiguchi, Masahiro (*with* Ichihashi, H.; Tanaka, Hideo) Fuzzy linear programming using a multiattribute value function. (Japanese. English summary) **89b:90126**
Irtel, Hans On specific objectivity as a concept in measurement. **89a:92074**
Jaffray, Jean-Yves An axiomatic model of choice under risk which is compatible with the certainty effect. **89e:90005**
Jean, William H. (*with* Helms, Billy P.) Necessary conditions for stochastic dominance: a general approach. **89d:90024**
Jensen, Robert *see* **Barron, E. N., 89k:90203**
Jordan, James S. *see* **Hurwicz, Leonid; et al., 89e:90012**
Joyce, Paul (*with* Tavaré, Simon) Cycles, permutations and the structure of the Yule process with immigration. **89a:60168**
Kadane, Joseph B. (*with* Winkler, Robert L.) de Finetti's methods of elicitation. **89a:62014**
Kannai, Yakar *see* **Hurwicz, Leonid; et al., 89e:90012**
Karni, Edi (*with* Safra, Zvi) "Preference reversals" and the theory of decision making under risk. **89e:90013**
Katz, Eliakim *see* **Appelbaum, E.,** (Not in MR)
Kennelly, B. Welfarism, IIA and Arrovian constitutional rules. **89j:90021**
Lavalle, Irving H. *see* **Fishburn, Peter C., 89f:90005** *and* **89k:90007**
Lehoczky, John P. (*with* Sethi, Suresh P.; Shreve, Steven E.) A martingale formulation for optimal consumption/investment decision making. **89b:90025**
Lewis, Alain A. (*with* Sundaram, Rangarajan) An alternate approach to axiomatizations of the von Neumann/Morgenstern characteristic function. **89j:90310**
Luce, R. Duncan Measurement structures with Archimedean ordered translation groups. **89a:06042**
Machina, Mark J. (*with* Neilson, William S.) The Ross characterization of risk aversion: strengthening and extension. **89a:90023**
Madan, Dilip B. Risk measurement in semimartingale models with multiple consumption goods. **89d:90037**
Manski, Charles F. Ordinal utility models of decision making under uncertainty. **89h:90015**
Marley, A. A. J. Random utility models with binary tree decomposable rank orders satisfy Tversky's elimination-by-aspects model. **89m:92056**
McAllister, Patrick H. *see* **Dantzig, George B.; et al., 89h:90041**
Modica, Salvatore *see* **Gay, Antonio, 89m:90007**
Nakamura, Yutaka *see* **Farquhar, Peter H., 89f:90015**
Neck, Reinhard (*with* Dockner, Engelbert J.) On the optimality of cyclical stabilization policies: some variations on a model of Nordhaus. **89k:90040**
Neilson, William S. *see* **Machina, Mark J., 89a:90023**
Nielsen, Lars Tyge Portfolio selection in the mean-variance model: a note. **89a:90025**
Page, Talbot Pivot mechanisms as a link between probability and preference revelation. **89d:90006**
Paterson, Iain (*with* Diekmann, Andreas) A paradox in decision theory and some experimental results: the relative nature of decisions. **89g:90266**
Radner, Roy Repeated moral hazard with low discount rates. **89e:90059**
Repullo, Rafael A new characterization of the efficiency of equilibrium with incomplete markets. **89g:90061**
Roberts, Fred S. (*with* Rosenbaum, Zangwill) Tight and loose value automorphisms. **89j:92090**
Rosenbaum, Zangwill *see* **Roberts, Fred S., 89j:92090**
Rubinshteĭn, G. Sh. The canonical group of increasing functions of bounded convex variation and some of its applications. **89i:26013**
Safra, Zvi *see* **Karni, Edi, 89e:90013**
Sakaguchi, Minoru An entropy model for brand selection behavior—exit of the third brand. **89m:90005**
Schaible, Siegfried *see* **Avriel, Mordecai; et al., 89e:90155**
Sen, Pranab Kumar The harmonic Gini coefficient and affluence indexes. **89h:90068**
Sethi, Suresh P. *see* **Lehoczky, John P.; et al., 89b:90025**
Shafer, Glenn Belief functions and possibility measures. **89c:03041**
Shreve, Steven E. *see* **Lehoczky, John P.; et al., 89b:90025**
Sinha, Tapen Some applications of a model of term life insurance contracts. **89b:62213**
Slivinski, A. Bergson social welfare functions in applied welfare analysis. **89d:90023**
Stiglitz, Joseph E. Pareto efficient and optimal taxation and the new new welfare economics. (*see* **89m:90002b**)
Stone, John C. *see* **Dantzig, George B.; et al., 89h:90041**
Sundaram, Rangarajan *see* **Lewis, Alain A., 89j:90310**
Sycara, Katia Utility theory in conflict resolution. **89k:90205**
Tanaka, Hideo *see* **Inuiguchi, Masahiro; et al., 89b:90126**
Tavaré, Simon *see* **Joyce, Paul, 89a:60168**
Tavares, L. Valadares Generalized transitivity and preferences modelling: the concept of hyper-order. **89h:90016**
Trapp, Rainer W. ★ "Nicht-klassischer" Utilitarismus. (German) ["Nonclassical" utilitarianism] **89e:90009**
Varian, Hal R. Estimating risk aversion from Arrow-Debreu portfolio choice. **89j:90030**
— Revealed preference with a subset of goods. **89k:90008**
Weirich, Paul Expected utility and risk. **89a:90009**
Winkler, Robert L. *see* **Kadane, Joseph B., 89a:62014**
Yaari, Menahem E. Univariate and multivariate comparisons of risk aversion: a new approach. **89h:90017**
Zang, Israel *see* **Avriel, Mordecai; et al., 89e:90155**

90A11 Production models

Bamberg, G. (*with* Baur, Franz) Commodity futures markets and the level of production. **89k:90025**
Banker, Rajiv D. (*with* Maindiratta, Ajay) Nonparametric analysis of technical and allocative efficiencies in production. (Not in MR)
Baur, Franz *see* **Bamberg, G., 89k:90025**
Blackorby, Charles (*with* Schworm, William) The existence of input and output aggregates in aggregate production functions. **89c:90023**
Boggio, L. Errata corrige: "On the stability of production prices" [Metroeconomica 37 (1985), no. 3, 241–267; MR 87j:90028]. **89f:90023**
Böhm, Volker Returns to size vs returns to scale: the core with production revisited. **89h:90029**
Brock, William A. (*with* Majumdar, Mukul) On characterizing optimal competitive programs in terms of decentralizable conditions. **89g:90046**

Chen, Guo Quan (*with* Yu, Eden S. H.) On the properties of fuzzy production correspondence. **89h:90030**

Csaplar, Wilfrid W., Jr. (*with* Tower, Edward) Trade and industrial policy under oligopoly: comment to: "Optimal trade and industrial policy under oligopoly" [Quart. J. Econom. **101** (1986), no. 2, 383–406] by J. Eaton and G. M. Grossman. (Not in MR)

Dasgupta, Swapan (*with* Mitra, Tapan) Intertemporal optimality in a closed linear model of production. **89g:90047**

(Eaton, Jonathan) *see* **Csaplar, Wilfrid W., Jr.**, (Not in MR)

Eriksson, Jan R. The simultaneous two-step entropy model. **89h:90031**

Fabella, Raul V. Natural team sharing and team productivity. **89h:90032**

Ferreira, José António Soéiro (*with* Vidal, René Victor Valqui) A new algorithm for the economic lot size problem. (Russian and Polish summaries) (Not in MR)

Frolov, Vladimir Nicolaevich (*with* Vatolin, A. A.) Analysis of conflicting situations in problems of the short-term scheduling of production. (Russian) **89e:90040**

Fujimoto, Takao (*with* Krause, Ulrich) More theorems on joint production. **89g:90048**

Gaimon, Cheryl Simultaneous and dynamic ~~price~~, production, inventory and capacity decisions. (Not in MR)

Gambarov, L. A. ★ Оптимизация планов развития и распределения в экономико-производственных системах. (Russian) [Optimization of plans for development and distribution in economic-production systems] (Not in MR)

(Grossman, Gene M.) *see* **Csaplar, Wilfrid W., Jr.**, (Not in MR)

Haller, Hans Competition in a stock market with small firms. **89h:90033**

Heineke, J. M. (*with* Shefrin, H. M.) On some global properties of Gorman class demand systems. **89a:90036**

Herrero, Carmen (*with* Villar, Antonio) A characterization of economies with the nonsubstitution property. **89d:90035**

Hopp, Wallace J. *see* **Jones, Philip C.; et al.**, **89e:90041**

Jones, Philip C. (*with* Zydiak, James L.; Hopp, Wallace J.) Stationary dual prices and depreciation. **89e:90041**

Junius, Theo Price formation in input-output analysis. (Not in MR)

Kerimov, A. M. Properties of an optimal mapping in a problem of mathematical economics. (Russian. English and Azerbaijani summaries) **89m:90024**

Krause, Ulrich *see* **Fujimoto, Takao**, **89g:90048**

Lasserre, Pierre (*with* Ouellette, Pierre) Rate-of-return regulated cost function: Shephard's lemma and curvature properties. (Not in MR)

— (*with* Ouellette, Pierre) Errata: "Rate-of-return regulated cost function: Shephard's lemma and curvature properties" [Econom. Lett. **25** (1987), no. 4, 307–310]. (Not in MR)

Maindiratta, Ajay *see* **Banker, Rajiv D.**, (Not in MR)

Majumdar, Mukul *see* **Brock, William A.**, **89g:90046**

Mak, King-Tim Approximate separability and aggregation. **89g:90049**

Marjit, Sugata A simple model of technology transfer. (Not in MR)

Mitra, Tapan *see* **Dasgupta, Swapan**, **89g:90047**

Miyao, Takahiro *see* **Nishimura, Kazuo**, **89h:90035**

Moulin, Hervé Egalitarian-equivalent cost sharing of a public good. **89b:90035**

— A core selection for regulating a single-output monopoly. **89h:90034**

Nishimura, Kazuo (*with* Miyao, Takahiro) On aggregated growth models with nonconcave production functions. **89h:90035**

Ouellette, Pierre *see* **Lasserre, Pierre**, (Not in MR) *and* (Not in MR)

Polterovich, V. M. (*with* Spivak, V. A.) Quota variations in a production system with fixed prices. (Russian. English summary) **89a:90037**

Rubanov, I. A. (*with* Stel′makh, D. S.) Adjustment of the land fertility function. (Russian) (Not in MR)

Salvadori, Neri Fixed capital within the Sraffa framework. (Not in MR)

Schworm, William *see* **Blackorby, Charles**, **89c:90023**

Sen Gupta, Abhijit On a criterion of infinite-horizon efficiency. **89j:90041**

Sengupta, Jati K. (*with* Sfeir, Raymond E.) Minimax method of measuring productive efficiency. **89i:90014**

Sfeir, Raymond E. *see* **Sengupta, Jati K.**, **89i:90014**

Shefrin, H. M. *see* **Heineke, J. M.**, **89a:90036**

Shi, Shu Zhong Convex analysis and its applications in microeconomics. (Chinese) **89m:90025**

Singhal, Vinod R. Inventories, risk, and the value of the firm. **89e:90042**

Spivak, V. A. *see* **Polterovich, V. M.**, **89a:90037**

Stel′makh, D. S. *see* **Rubanov, I. A.**, (Not in MR)

Todd, M. J. Reformulations of economic equilibrium problems for solution by quasi-Newton and simplicial algorithms. **89e:90043**

Tower, Edward *see* **Csaplar, Wilfrid W., Jr.**, (Not in MR)

Udal′tsov, Yu. A. Game-theoretic analysis of mutually profitable strategies in exchange systems. **89h:90036**

Vatolin, A. A. *see* **Frolov, Vladimir Nicolaevich**, **89e:90040**

Vidal, René Victor Valqui *see* **Ferreira, José António Soéiro**, (Not in MR)

Villar, Antonio *see* **Herrero, Carmen**, **89d:90035**

Yu, Eden S. H. *see* **Chen, Guo Quan**, **89h:90030**

Zydiak, James L. *see* **Jones, Philip C.; et al.**, **89e:90041**

Items with secondary classifications in 90A11

Andersson, Å. E. (*with* Kuenne, R. E.) Regional economic dynamics. (*see* **89m:90047**)

Arnold, Bernhard F. ★ Minimax-Prüfpläne für die Prozeßkontrolle. (German) [Minimax sampling inspection for process control] **89f:90069**

Avriel, Mordecai (*with* Diewert, Walter E.; Schaible, Siegfried; Zang, Israel) ★ Generalized concavity. **89e:90155**

Batten, David F. (*with* Boyce, David E.) Spatial interaction, transportation, and interregional commodity flow models. (*see* **89m:90047**)

Battese, George E. (*with* Coelli, Tim J.) Prediction of firm-level technical efficiencies with a generalized frontier production function and panel data. (Not in MR)

Bayalinov, È. B. Economic interpretation of dual estimates in linear fractional programming. (Russian) **89c:90105**

Beckmann, Martin J. (*with* Thisse, Jacques-François) The location of production activities. (*see* **89m:90047**)

Berlyand, E. L. (*with* Busygin, V. P.) Models for input-output balance with input and output functions. (Russian) **89a:90049**

Boyce, David E. *see* **Batten, David F.**, (**89m:90047**)

Busygin, V. P. *see* **Berlyand, E. L.**, **89a:90049**

Coelli, Tim J. *see* **Battese, George E.**, (Not in MR)

Dasgupta, Swapan (*with* Mitra, Tapan) Characterization of intertemporal optimality in terms of decentralizable conditions: the discounted case. **89h:90055**

Dietzenbacher, E. Trade imbalance in an input-output model. (Not in MR)

Diewert, Walter E. *see* **Avriel, Mordecai; et al.**, **89e:90155**

Dubey, P. (*with* Shubik, Martin) A note on an optimal garnishing rule. **89h:90026**

Frankel, Michael L. A model of slow equilibrium dynamics for economic expansion. **89c:90029**

Gal-Or, Esther The advantages of imprecise information. **89g:90069**

Hartley, Michael J. Neoclassical econometries [econometrics]: the kernel. **89f:62090**

Kahn, Charles Milton *see* **Malueg, David A.; et al.**, **89f:90029**

Kamien, Morton I. (*with* Tauman, Yair; Zang, Israel) Optimal license fees for a new product. **89g:90059**

Karasev, A. I. (*with* Kremer, N. Sh.; Savel′eva, T. I.) ★ Математические методы и модели в планировании. (Russian) [Mathematical methods and models in planning] **89e:90002**

Karp, Larry S. Dynamic hedging with uncertain production. (Not in MR)

Krelle, Wilhelm Structural change induced by foreign trade. What are the advantages for the country? (*see* **89j:90002**)

Kremer, N. Sh. *see* **Karasev, A. I.; et al.**, **89e:90002**

Kuenne, R. E. *see* **Andersson, Å. E.**, (**89m:90047**)

Lasry, Jean-Michel EDP et anticipations rationnelles (à partir du modèle de J. Scheinkman et L. Weiss). [PDE and rational expectations (based on the model of J. Scheinkman and L. Weiss)] **89e:90063**

Majumdar, Mukul (*with* Zilcha, Itzhak) Optimal growth in a stochastic environment: some sensitivity and turnpike results. **89b:90054**

Malueg, David A. (*with* Solow, John L.; Kahn, Charles Milton) Erratum: "The durable goods monopolist and consistency with increasing costs" [Econometrica **54** (1986), no. 2, 275–294; MR 87d:90046] by Kahn. **89f:90029**

Mitra, Tapan *see* **Dasgupta, Swapan**, **89h:90055**

Morton, T. E. *see* **Udayabhanu, V.**, **89b:90098**

Mulligan, J. G. Economies of scale for the $GI/G/c$ queuing model. **89e:90104**

Nyarko, Yaw On characterizing optimality of stochastic competitive processes. **89m:90039**

Papava, V. G. A unified approach to the investigation of the properties of dynamic input-output balance models. (Russian) (Not in MR)

Rachamadugu, Ram Error bounds for EOQ. **89g:90089**

Savel′eva, T. I. *see* **Karasev, A. I.; et al.**, **89e:90002**

Schaible, Siegfried *see* **Avriel, Mordecai; et al.**, **89e:90155**

Shubik, Martin *see* **Dubey, P.**, **89h:90026**

Solow, John L. *see* **Malueg, David A.; et al.**, **89f:90029**

Tauman, Yair *see* **Kamien, Morton I.; et al.**, **89g:90059**

Thisse, Jacques-François *see* **Beckmann, Martin J.**, (**89m:90047**)

Udayabhanu, V. (*with* Morton, T. E.) Planning horizons for capacity expansion. **89b:90098**

Vilaplana, José P. Equipment replacement. (Spanish. English summary) **89k:90078**

Vogelsang, Ingo A little paradox in the design of regulatory mechanisms. (Not in MR)

Zang, Israel *see* **Avriel, Mordecai; et al.**, **89e:90155** *and* **Kamien, Morton I.; et al.**, **89g:90059**

Zilcha, Itzhak *see* **Majumdar, Mukul**, **89b:90054**

Zyabrev, N. B. A problem of optimal scheduling for the production of complex products. (Russian) **89e:90127**

90A12 Price theory

Abdalla, Adil E. A. A characterization of employment distortions in labor contracts with asymmetric information. (Not in MR)

Alexander, Donald L. The oligopoly solution tested. (Not in MR)

Alperstein, Hanna Optimal pricing policy for the service facility offering a set of priority prices. **89a:90038**

Berezneva, T. D. Convergence of price control processes under a monotone demand function. (Russian) **89g:90050**

Besanko, David (*with* Donnenfeld, Shabtai) The impact of buyers' expectations on entry deterrence. **89g:90051**

de Boissieu, Christian Demande de monnaie et politique monétaire. [The demand for money and monetary policy] (*see* **89f:90002**)

Bös, Dieter Public sector pricing. (*see* **89m:90002a**)

— Corrigendum: "Public sector pricing" [*Handbook of public economics, Vol. I*, 129–211, North-Holland, Amsterdam, 1985]. (*see* **89m:90002b**)

Brachinger, Hans-Wolfgang (*with* Schubert, Renate) Measuring price-induced changes in standard of living in least developed countries: economic validity of Laspeyres price indices and some further suggestions. (Not in MR)

Bulavskiĭ, V. A. (*with* Virchenko, M. I.; Shestakova, N. V.) Modeling of price formation in agriculture. (Russian) **89d:90036**

Burke, Jonathan L. Inactive transfer policies and efficiency in general overlapping-generations economies. **89g:90052**

Chang, Tsu Shuan *see* **Luh, Peter B.; et al.**, **89c:90024**

Corchòn, Luis C. Cost-prices with variable returns. **89j:90042**

Donnenfeld, Shabtai *see* **Besanko, David**, **89g:90051**

Fishman, Arthur Dynamic sales discriminate against uninformed consumers in a competitive market. **89m:90026**

Hart, Oliver D. (*with* Tirole, Jean) Contract renegotiation and Coasian dynamics. **89h:90037**

Heller, Walter P. Coordination failure under complete markets with applications to effective demand. **89b:90036**

Hwang, Hark *see* **Kim, Kap H.**, **89b:90037**

Karp, Larry S. Dynamic hedging with uncertain production. (Not in MR)

Kim, Kap H. (*with* Hwang, Hark) An incremental discount pricing schedule with multiple customers and single price break. **89b:90037**

(Labadie, Pamela) *see* **Salyer, Kevin D.**, **89h:90039**

Lau, Lawrence J. (*with* Ma, Barry K.) Certainty equivalence in expected profit maximization implies impossibility of loss. **89a:90039**
Li, Lode A stochastic theory of the firm. **89i:90015**
Luh, Peter B. (*with* Chang, Tsu Shuan; Ning, T.) Pricing problems with a continuum of customers as stochastic Stackelberg games. **89c:90024**
Ma, Barry K. *see* **Lau, Lawrence J., 89a:90039**
Madan, Dilip B. Risk measurement in semimartingale models with multiple consumption goods. **89d:90037**
Majumdar, Mukul Decentralization in infinite horizon economies: an introduction. **89h:90038**
Narayanaswamy, C. R. A mean-variance synthesis of corporate financial theory: a note. (Not in MR)
Ning, T. *see* **Luh, Peter B.; et al., 89c:90024**
Reisman, Haim A general approach to the arbitrage pricing theory (APT). **89e:90044**
Rothschild, Michael Asset pricing theories. **89b:90038**
Sadanand, V. Endogenously determined price-setting monopoly in an exchange economy. **89k:90026**
Salvadori, Neri Fixed capital within a von Neumann-Morishima model of growth and distribution. **89e:90045**
Salyer, Kevin D. A note: "Comparative dynamics and risk premia in an overlapping generations model" [Rev. Econom. Stud. **53** (1986), no. 1, 139–152; MR 87b:90023] by P. Labadie. **89h:90039**
Schubert, Renate *see* **Brachinger, Hans-Wolfgang**, (Not in MR)
Seidmann, Daniel J. Anticipatory pricing with negligible uncertainty. **89a:90040**
Shestakova, N. V. *see* **Bulavskiĭ, V. A.; et al., 89d:90036**
Sorger, Gerhard Reference price formation and optimal marketing strategies. **89h:90040**
Spulber, Daniel F. Bargaining and regulation with asymmetric information about demand and supply. **89d:90038**
Stephan, Gunter Competitive finite value prices: a complete characterization. **89d:90039**
Tirole, Jean *see* **Hart, Oliver D., 89h:90037**
Vasin, A. A. On a problem of economic regulation. **89j:90043**
Virchenko, M. I. *see* **Bulavskiĭ, V. A.; et al., 89d:90036**
Vogelsang, Ingo A little paradox in the design of regulatory mechanisms. (Not in MR)
Vohra, Rajiv Optimal regulation under fixed rules for income distribution. **89e:90046**
Werner, Jan Arbitrage and the existence of competitive equilibrium. **89d:90040**
Wilson, Robert B. Efficient and competitive rationing by means of priority service. (Russian) (Not in MR)

Items with secondary classifications in 90A12

Balasko, Yves The class of aggregate excess demand functions. **89d:90041**
Ball, Clifford A. Estimation bias induced by discrete security prices. **89g:90025**
(Benassy, Jean Pascal) *see* **Dehez, Pierre, (89d:90065)**
Bossert, Walter (*with* Pfingsten, Andreas) The circular and time reversal tests reconsidered in economic price index theory. **89j:62142**
Dasgupta, Swapan (*with* Mitra, Tapan) Characterization of intertemporal optimality in terms of decentralizable conditions: the discounted case. **89h:90055**
Dehez, Pierre (*with* Fitoussi, Jean-Paul) Equilibres de stagflation et indexation des salaires. [Stagflation equilibria and indexation of salaries] (*see* **89d:90065**)
Eden, Benjamin *see* **Landsburg, Steven E., 89m:90033**
Engelbrecht-Wiggans, Richard Revenue equivalence in multiobject auctions. **89d:90045**
Fitoussi, Jean-Paul *see* **Dehez, Pierre, (89d:90065)**
(Fleurbaey, Marc) *see* **Grandmont, Jean-Michel, 89f:90016**
Florenzano, Monique On an extension of the Gale-Nikaido-Debreu lemma. **89d:90046**
Grandmont, Jean-Michel ★ Monnaie et valeur. (French) [Money and value] **89f:90016**
Greenhut, Melvin L. (*with* Norman, George; Hung, Chao-shun) ★ The economics of imperfect competition. **89g:90001**
Hausch, Donald B. A model of sequential auctions. **89e:90054**
He, Lun Zhi On the problem of stability of equilibrium prices. (Chinese) (Not in MR)
Holmes, James M. (*with* Manning, Richard) Memory and market stability: the case of the cobweb. (Not in MR)
Hoy, Michael Insurance provision under a solvency requirement. **89i:62170**
Hung, Chao-shun *see* **Greenhut, Melvin L.; et al., 89g:90001**
Karni, Edi On the equivalence between descending bid auctions and first price sealed bid auctions. **89m:90023**
Kazemi, Hossein B. A multiperiod asset-pricing model with unobservable market portfolio: a note. **89m:90017**
Landsburg, Steven E. (*with* Eden, Benjamin) On the competitive resolution of trading uncertainty. **89m:90033**
Liptser, R. Sh. (*with* Yashin, A. I.) Applications of martingale methods. **89m:60105**
Majerus, David W. Price vs. quantity competition in oligopoly supergames. **89h:90048**
Manning, Richard *see* **Holmes, James M.**, (Not in MR)
McAfee, R. Preston (*with* McMillan, John) Search mechanisms. **89d:90058**
McMillan, John *see* **McAfee, R. Preston, 89d:90058**
Mitra, Tapan *see* **Dasgupta, Swapan, 89h:90055**
Movshovich, S. M. Price control in the presence of queues. (Russian) **89j:90052**
Norman, George *see* **Greenhut, Melvin L.; et al., 89g:90001**
Okuguchi, Koji (*with* Szidarovszky, Ferenc) Dynamics of the Cournot oligopoly with multi-product firms. **89h:90050**
Pfingsten, Andreas *see* **Bossert, Walter, 89j:62142**
Saari, Donald G. Some informational requirements for convergence. **89b:65119**
Scarf, Herbert E. Testing for optimality in the absence of convexity. **89e:90021**
Shi, Shu Zhong Convex analysis and its applications in microeconomics. (Chinese) **89m:90025**
Stadje, W. An optimal stopping problem with finite horizon for sums of i.i.d. random variables. **89a:60126**
Starrett, David A. On the social risk premium. **89b:90032**
Szidarovszky, Ferenc *see* **Okuguchi, Koji, 89h:90050**
Tanaka, Yasuhito On multiplicity of consistent conjectures in free entry oligopoly. **89j:90056**
Tiemann, Jonathan Exact arbitrage pricing and the minimum-variance frontier. **89c:90016**
Varian, Hal R. Revealed preference with a subset of goods. **89k:90008**
Yashin, A. I. *see* **Liptser, R. Sh., 89m:60105**

90A14 Equilibrium theory

Aiyagari, S. Rao Equilibrium existence in an overlapping generations model with altruistic preferences. **89k:90027**
Aliprantis, C. D. (*with* Brown, Donald J.; Burkinshaw, O.) Edgeworth equilibria. **89c:90025**
— (*with* Brown, Donald J.; Burkinshaw, O.) Edgeworth equilibria in production economies. **89i:90016**
— (*with* Burkinshaw, O.) The fundamental theorems of welfare economics without proper preferences. **89e:90047**
(Allais, Maurice) *see* **Malinvaud, Edmond, (89f:90002)**
Anderson, Robert M. Notions of core convergence. **89b:90039**
— Gap-minimizing prices and quadratic core convergence. **89a:90041**
— The second welfare theorem with nonconvex preferences. **89e:90048**
Andersson, Å. E. (*with* Kuenne, R. E.) Regional economic dynamics. (*see* **89m:90047**)
Araujo, Aloisio Pessoa The nonexistence of smooth demand in general Banach spaces. **89m:90027**
Arvan, Lanny Symmetric equilibrium with random entry. **89m:90028**
Back, Kerry Structure of consumption sets and existence of equilibria in infinite-dimensional spaces. **89g:90053**
Bagwell, Kyle (*with* Ramey, Garey) Advertising and limit pricing. **89e:90049**
Balasko, Yves The class of aggregate excess demand functions. **89d:90041**
— ★ Foundations of the theory of general equilibrium. **89d:90042**
Barabash, S. B. (*with* Busygin, V. P.; Radchenko, V. V.) Methods for finding solutions in applied equilibrium models. (Russian) **89b:90040**
Bénabou, Roland Search, price setting and inflation. **89g:90054**
Berliant, Marcus (*with* ten Raa, Thijs) A foundation of location theory: consumer preferences and demand. **89e:90050**
Besada, Manuel (*with* Hervés, Carlos) Existence of competitive equilibrium in an economy with no time horizon. (Spanish. English summary) **89j:90044**
— (*with* Estévez, Margarita; Hervés, Carlos) Equilibria in economies with countably many commodities. **89k:90028**
Bester, Helmut Bargaining, search costs and equilibrium price distributions. **89b:90041**
Binmore, K. G. (*with* Herrero, M. J.) Matching and bargaining in dynamic markets. **89c:90026**
— (*with* Herrero, M. J.) Security equilibrium. **89c:90027**
Blume, Lawrence E. Equilibrium and optimality in a sequence of markets with transactions costs. **89a:90042**
Bonanno, Giacomo Oligopoly equilibria when firms have local knowledge of demand. **89g:90055**
Boyer, Marcel (*with* Moreaux, Michel) Rational rationing in Stackelberg equilibria. **89d:90043**
Brown, Donald J. *see* **Aliprantis, C. D.; et al., 89c:90025** *and* **89i:90016**
Brusco, Sandro Heterogeneous distribution of information and convergence to rational expectations equilibrium in a partial equilibrium model. **89j:90045**
Burkinshaw, O. *see* **Aliprantis, C. D.; et al., 89c:90025; 89e:90047** *and* **89i:90016**
Busygin, V. P. *see* **Barabash, S. B.; et al., 89b:90040**
Chae, Suchan Short run core equivalence in an overlapping generations model. **89f:90024**
— Existence of competitive equilibrium with incomplete markets. **89b:90042**
Chatterjee, Kalyan (*with* Samuelson, Larry) Bargaining under two-sided incomplete information: the unrestricted offers case. **89m:90029**
Cho, In-Koo A refinement of sequential equilibrium. **89b:90043**
Chun, Youngsub The equal-loss principle for bargaining problems. **89d:90044**
Codsi, G. (*with* Pearson, K. R.) GEMPACK: general-purpose software for applied general equilibrium and other economic modellers. (Not in MR)
Cornes, Richard (*with* Sandler, Todd) ★ The theory of externalities, public goods, and club goods. **89g:90056**
Crémer, Jacques (*with* McLean, Richard P.) Full extraction of the surplus in Bayesian and dominant strategy auctions. **89j:90046**
Currie, David A. *see* **Levine, Paul, 89d:90051**
Danilov, V. I. (*with* Sotskov, A. I.) Steady states and core theorems. (Russian) **89j:90047**
Dantzig, George B. (*with* McAllister, Patrick H.; Stone, John C.) Formulating an objective for an economy. **89h:90041**
DeMarzo, Peter M. An extension of the Modigliani-Miller theorem to stochastic economies with incomplete markets and interdependent securities. **89g:90057**
Dierker, Egbert (*with* Lenninghaus, Jürgen) Surplus maximization and Pareto optimality. **89b:90044**
Dixit, Avinash Tax policy in open economies. (*see* **89m:90002a**)
Doup, T. M. (*with* van der Laan, G.; Talman, A. J. J.) The $(2^{n+1}-2)$-ray algorithm: a new simplicial algorithm to compute economic equilibria. **89h:90042**
Duffie, Darrell Stochastic equilibria with incomplete financial markets. **89f:90025**
Dutta, Prajit K. (*with* Mitra, Tapan) Maximum theorems for convex structures with an application to the theory of optimal intertemporal allocation. **89m:90030**
Eaves, B. Curtis Thoughts on computing market equilibrium with SLCP. **89e:90051**
Economides, Nicholas Symmetric equilibrium existence and optimality in differentiated product markets. **89k:90029**
Eden, Benjamin *see* **Landsburg, Steven E., 89m:90033**
Encaoua, David (*with* Moreaux, Michel) Concurrence et monopole naturel: une approche par la théorie des jeux. (English summary) [Competition and natural monopoly: a game-theoretical approach] **89c:90028**
Engelbrecht-Wiggans, Richard Revenue equivalence in multiobject auctions. **89d:90045**
Estévez, Margarita *see* **Besada, Manuel; et al., 89k:90028**
Feldman, Mark An example of convergence to rational expectations with heterogeneous beliefs. **89h:90043**
— Bayesian learning and convergence to rational expectations. **89b:90045**
Florenzano, Monique On an extension of the Gale-Nikaido-Debreu lemma. **89d:90046**

Frankel, Michael L. A model of slow equilibrium dynamics for economic expansion. **89c:90029**
Gale, Douglas Limit theorems for markets with sequential bargaining. **89c:90030**
— Price setting and competition in a simple duopoly model. **89j:90048**
Gaudet, Gérard (*with* Moreaux, Michel) A comparison of Bertrand and Cournot equilibrium outcomes in a differentiated nonrenewable resources duopoly. (*see* **89d:00007**)
Geanakoplos, John D. (*with* Polemarchakis, H. M.) Existence, regularity, and constrained suboptimality of competitive allocations when the asset market is incomplete. **89f:90026**
Geralavičius, V. General equilibrium when there are several types of money and continuous price-setting mechanisms. (Russian. English and Lithuanian summaries) **89e:90052**
Ginsburgh, Victor A. (*with* Van der Heyden, Ludo) On extending the Negishi approach to computing equilibria: the case of government price support policies. **89b:90046**
Hahn, Frank H. ★ Money, growth and stability. **89k:90030**
Hansen, Robert G. Auctions with endogenous quantity. **89e:90053**
Harrington, Joseph E., Jr. Oligopolistic entry deterrence under incomplete information. **89d:90047**
Hausch, Donald B. A model of sequential auctions. **89e:90054**
He, Lun Zhi On the problem of stability of equilibrium prices. (Chinese) (Not in MR)
Herrero, M. J. *see* **Binmore, K. G., 89c:90026** *and* **89c:90027**
Hervés, Carlos *see* **Besada, Manuel, 89j:90044** *and* **89k:90028**
Hildenbrand, Werner Equilibrium analysis of large economies. **89e:90055**
Hotz, V. Joseph (*with* Kydland, Finn E.; Sedlacek, Guilherme L.) Intertemporal preferences and labor supply. (Not in MR)
Howitt, Peter (*with* McAfee, R. Preston) Stability of equilibria with externalities. **89d:90048**
Huang, Peter H. The robustness of multidimensional signalling equilibria. **89a:90044**
Hung, N. M. (*with* Schmitt, Nicolas) Quality competition and threat of entry in duopoly. **89h:90044**
Idzik, Adam A dynamic production and consumption model. (Russian. English and Lithuanian summaries) **89e:90056**
Jewitt, Ian Justifying the first-order approach to principal-agent problems. **89k:90031**
Jordan, James S. A stability problem with nonstationary overlapping generations equilibria. **89g:90058**
Kahn, Charles Milton (*with* Mookherjee, Dilip) A competitive efficiency wage model with Keynesian features. **89i:90017**
— *see also* **Malueg, David A.; et al., 89f:90029**
Kajii, Atsushi Note on equilibria without ordered preferences in topological vector spaces. **89m:90031**
— A general equilibrium model with fuzzy preferences. (Not in MR)
Kamien, Morton I. (*with* Tauman, Yair; Zang, Israel) Optimal license fees for a new product. **89g:90059**
Kats, Amoz Erratum: "Location-price equilibria in a spatial model of discriminating pricing" [Econom. Lett. **25** (1987), no. 2, 105–109]. (Not in MR)
— Errata: "Location-price equilibria in a spatial model of discriminatory pricing" [Econom. Lett. **25** (1987), no. 2, 105–109]. (Not in MR)
Katz, Barbara Goody (*with* Owen, Joel) Rationed and Walrasian markets for the same good: a rational expectations determination of the relative prices. **89a:90043**
Kempf, Hubert Rational expectations, imperfect price adjustment and the optimality of monetary policy. **89i:90018**
Khan, M. Ali (*with* Vohra, Rajiv) On approximate decentralization of Pareto optimal allocations in locally convex spaces. **89h:90045**
— (*with* Vohra, Rajiv) Pareto optimal allocations of nonconvex economies in locally convex spaces. **89k:90032**
Kim, Ki Hang (*with* Roush, F. W.) Strategic tariff equilibrium and optimal tariffs. **89i:90019**
Kiyotaki, Nobuhiro Multiple expectational equilibria under monopolistic competition. (Not in MR)
Klemperer, P. (*with* Meyer, Margaret A.) Consistent conjectures equilibria. A reformulation showing nonuniqueness. (Not in MR)
Kozyrev, A. N. *see* **Makarov, Valeriĭ Leonidovich; et al., 89d:90052**
Kranüchel, Rolf ★ Kooperation auf homogenen und heterogenen Oligopolmärkten. (German) [Cooperation on homogeneous and heterogenous oligopoly markets] **89c:90031**
Kreps, David M. (*with* Ramey, Garey) Structural consistency, consistency, and sequential rationality. **89b:90047**
Kuenne, R. E. *see* **Andersson, Å. E.**, (**89m:90047**)
Kumar, K. Ravi (*with* Sudharshan, D.) Defensive marketing strategies: an equilibrium analysis based on decoupled response function models. **89f:90027**
Kydland, Finn E. *see* **Hotz, V. Joseph; et al.**, (Not in MR)
van der Laan, G. (*with* Talman, A. J. J.) Adjustment processes for finding economic equilibria. **89d:90049**
— *see also* **Doup, T. M.; et al., 89h:90042**
Labys, W. C. *see* **Takayama, T.**, (**89m:90047**)
Laffont, Jean-Jacques Incentives and the allocation of public goods. (*see* **89m:90002b**)
— (*with* Tirole, Jean) The dynamics of incentive contracts. **89i:90020**
Laitner, John Dynamic determinacy and the existence of sunspot equilibria. **89m:90032**
Landsburg, Steven E. (*with* Eden, Benjamin) On the competitive resolution of trading uncertainty. **89m:90033**
Lenninghaus, Jürgen *see* **Dierker, Egbert, 89b:90044**
Lensberg, Terje Stability and the Nash solution. **89h:90046**
Lesourne, Jacques L'auto-organisation et le marché. [Self-organization and the market] (*see* **89f:90002**)
Levine, David K. Nash equilibria equal competitive equilibria. **89d:90050**
— Efficiency and the value of money. **89m:90034**
Levine, Paul (*with* Currie, David A.) The design of feedback rules in linear stochastic rational expectations models. **89d:90051**
Loewy, Michael B. The incompatibility of valued money and equilibrium policy. (Not in MR)
Lorenz, Hans-Walter On the uniqueness of limit cycles in business cycle theory. **89e:90057**
Lucas, Robert E., Jr. (*with* Stokey, Nancy L.) La monnaie et l'intérêt sous contrainte de transaction. (English summary) [Money and interest in a cash-in-advance economy] (Not in MR)
Ma, Ching-to (*with* Moore, John Halstead; Turnbull, Stephen) Stopping agents from "cheating". **89j:90049**
— Unique implementation of incentive contracts with many agents. **89h:90047**
Mailath, George J. On the behavior of separating equilibria of signaling games with a finite set of types as the set of types becomes dense in an interval. **89f:90028**
Majerus, David W. Price vs. quantity competition in oligopoly supergames. **89h:90048**
Makarov, Valeriĭ Leonidovich (*with* Vasil′ev, V. A.; Kozyrev, A. N.; Marakulin, V. M.) Equilibrium, rationing and stability (based on results of the work of the second Novosibirsk school on mathematical economics). (Russian) **89d:90052**
Malinvaud, Edmond Maurice Allais, précurseur méconnu des modèles à générations renouvelées. [Maurice Allais, unrecognized precursor of overlapping-generations models] (*see* **89f:90002**)
Malueg, David A. (*with* Solow, John L.; Kahn, Charles Milton) Erratum: "The durable goods monopolist and consistency with increasing costs" [Econometrica **54** (1986), no. 2, 275–294; MR 87d:90046] by Kahn. **89f:90029**
Mankiw, N. Gregory Imperfect competition and the Keynesian cross. **89d:90053**
Marakulin, V. M. *see* **Makarov, Valeriĭ Leonidovich; et al., 89d:90052**
Marcotte, Patrice Un algorithme général de calcul de l'état d'équilibre d'un oligopole. (English summary) [A general algorithm for calculating the equilibrium state of an oligopoly] **89j:90050**
Marimon, Ramon (*with* Wallace, Neil) Trade using assets divisible at a cost. **89d:90054**
Mas-Colell, Andreu Four lectures on the differentiable approach to general equilibrium theory. **89j:90051**
— *see also* **Anderson, Robert M., 89e:90048**
McAfee, R. Preston *see* **Howitt, Peter, 89d:90048**
McAllister, Patrick H. *see* **Dantzig, George B.; et al., 89h:90041**
McKenzie, Lionel W. A limit theorem on the core. **89m:90035**
McLean, Richard P. *see* **Crémer, Jacques, 89j:90046**
Mehta, Ghanshyam *see* **Tarafdar, E., 89c:90036**
Menezes, C. F. *see* **Tressler, J. H.**, (Not in MR)
Meyer, Margaret A. *see* **Klemperer, P.**, (Not in MR)
Mitra, Tapan *see* **Dutta, Prajit K., 89m:90030**
Mo, Jie-Ping Entry and structures of interest groups in assignment games. **89h:90049**
Mookherjee, Dilip *see* **Kahn, Charles Milton, 89i:90017**
Moore, John Halstead *see* **Ma, Ching-to; et al., 89j:90049**
Moreaux, Michel *see* **Encaoua, David, 89c:90028; Boyer, Marcel, 89d:90043** *and* **Gaudet, Gérard**, (**89d:00007**)
Movshovich, S. M. Price control in the presence of queues. (Russian) **89j:90052**
Nachman, David C. Stochastic equilibria. **89e:90058**
Nenakhov, È. I. (*with* Primak, M. E.) ★ Линейная модель обмена с дополнительными ограничениями. (Russian) [A linear model for exchange with additional constraints] **89c:90032**
Oakland, William H. Theory of public goods. (*see* **89m:90002b**)
Okuguchi, Koji (*with* Szidarovszky, Ferenc) Dynamics of the Cournot oligopoly with multiproduct firms. **89h:90050**
— *see also* **Szidarovszky, Ferenc, 89e:90061**
Opp, Karl-Dieter The evolution of a prisoner's dilemma in the market. (*see* **89d:90019**)
Owen, Joel *see* **Katz, Barbara Goody, 89a:90043**
Panagariya, Arvind A theoretical explanation of some stylized facts of economic growth. **89h:90051**
Pavlovskaya, E. Ya. (*with* Pospelov, I. G.; Skripkin, K. G.) ★ Точка Нэша и общественно необходимые затраты труда в хозяйстве. (Russian) [The Nash point and socially necessary expenditure of labor in an economy] **89d:90055**
Pearson, K. R. *see* **Codsi, G.**, (Not in MR)
Peck, James On the existence of sunspot equilibria in an overlapping generations model. **89c:90033**
Polemarchakis, H. M. *see* **Geanakoplos, John D., 89f:90026**
Polishchuk, N. V. *see* **Pshenichnyĭ, B. N., 89a:90045**
Ponsard, Claude Quelques réflexions sur la théorie économique de l'équilibre spatial général. [Some reflections on the economic theory of general space equilibrium] (*see* **89f:90002**)
Pospelov, I. G. *see* **Pavlovskaya, E. Ya.; et al., 89d:90055**
Primak, M. E. *see* **Nenakhov, È. I., 89c:90032**
Pshenichnyĭ, B. N. (*with* Polishchuk, N. V.) On the existence of equilibrium prices in a general model of production and exchange. (Russian) **89a:90045**
Quirmbach, Herman C. Comparative statics for oligopoly: demand shift effects. **89m:90036**
ten Raa, Thijs *see* **Berliant, Marcus, 89e:90050**
Radchenko, V. V. *see* **Barabash, S. B.; et al., 89b:90040**
Radner, Roy Repeated moral hazard with low discount rates. **89e:90059**
Ramey, Garey *see* **Kreps, David M., 89b:90047** *and* **Bagwell, Kyle, 89e:90049**
Reichelstein, Stefan (*with* Reiter, Stanley) Game forms with minimal message spaces. **89g:90060**
Reiter, Stanley *see* **Reichelstein, Stefan, 89g:90060**
Repullo, Rafael The existence of equilibrium without free disposal in economies with transaction costs and incomplete markets. **89b:90048**
— A new characterization of the efficiency of equilibrium with incomplete markets. **89g:90061**
— The core of an economy with transaction costs. **89g:90062**
Richard, Scott F. (*with* Srivastava, Sanjay) Equilibrium in economies with infinitely many consumers and infinitely many commodities. **89d:90056**
Riley, John G. Ex post information in auctions. **89h:90052**
Rogerson, Richard Recursive competitive equilibrium in multi-sector economies. **89m:90037**
Roush, F. W. *see* **Kim, Ki Hang, 89i:90019**
Rubinov, A. M. Equilibrium mechanisms of efficient economic development. (Russian) **89i:90021**
Safra, Zvi On the structure of nonmanipulable equilibria. **89f:90030**

Sakai, Yoshikiyo Conditional Pareto optimality of stationary equilibrium in a stochastic overlapping generations model. **89b:90049**
(Salanié, Bernard) *see* **Lucas, Robert E., Jr.**, (Not in MR)
Samuelson, Larry *see* **Chatterjee, Kalyan, 89m:90029**
Sandler, Todd *see* **Cornes, Richard, 89g:90056**
Schmitt, Nicolas *see* **Hung, N. M., 89h:90044**
Schotter, Andrew On the economic virtues of incompetency and dishonesty. (*see* **89d:90019**)
Schulz, N. Welfare economics and the vector maximum problem. (*see* **89f:90171**)
Sedlacek, Guilherme L. *see* **Hotz, V. Joseph; et al.**, (Not in MR)
Sertel, Murat R. Regulation by participation. **89g:90063**
Shi, Shou Yong Rational expectation equilibrium under quasilinear preferences. A diagrammatic approach. **89c:90034**
— Rothschild-Stiglitz competitive insurance market under quasilinear preferences. **89h:90053**
Shimoda, Norio On the theorem of Pu. **89a:90046**
Shitovitz, Benyamin On stationary 3-period overlapping generations models. **89j:90053**
Shmyrëv, V. I. Determining equilibrium in a model of cooperation. (Russian) **89j:90054**
Shubik, Martin The unique minimal cash flow competitive equilibrium. **89c:90035**
Skripkin, K. G. *see* **Pavlovskaya, E. Ya.; et al., 89d:90055**
Solow, John L. *see* **Malueg, David A.; et al., 89f:90029**
Solow, Robert M. Monopolistic competition and the multiplier. **89e:90060**
Sosnowska, Honorata Global stability in bounded sets: application to a queueing model of a market in a shortage economy. **89j:90055**
Sot·skov, A. I. *see* **Danilov, V. I., 89j:90047**
Srivastava, Sanjay *see* **Richard, Scott F., 89d:90056**
Stiglitz, Joseph E. Pareto efficient and optimal taxation and the new new welfare economics. (*see* **89m:90002b**)
Stokey, Nancy L. *see* **Lucas, Robert E., Jr.**, (Not in MR)
Stone, John C. *see* **Dantzig, George B.; et al., 89h:90041**
Sudharshan, D. *see* **Kumar, K. Ravi, 89f:90027**
Szidarovszky, Ferenc (*with* Okuguchi, Koji) Linear and nonlinear oligopoly models. **89e:90061**
— *see also* **Okuguchi, Koji, 89h:90050**
Takayama, T. (*with* Labys, W. C.) Spatial equilibrium analysis. (*see* **89m:90047**)
Talman, A. J. J. *see* **van der Laan, G., 89d:90049** *and* **Doup, T. M.; et al., 89h:90042**
Tanaka, Yasuhito On multiplicity of consistent conjectures in free entry oligopoly. **89j:90056**
Tarafdar, E. (*with* Mehta, Ghanshyam) A generalized version of the Gale-Nikaido-Debreu theorem. **89c:90036**
Tauman, Yair *see* **Kamien, Morton I.; et al., 89g:90059**
Thiel, Stuart E. Multidimensional auctions. **89j:90057**
Tian, Guo Qiang On the constrained Walrasian and Lindahl correspondences. **89j:90058**
Tirole, Jean *see* **Laffont, Jean-Jacques, 89i:90020**
de Trenqualye, Pierre Stability of the Groves and Ledyard mechanism. **89g:90064**
Tressler, J. H. (*with* Menezes, C. F.) The comparative statics of a competitive industry facing demand uncertainty. (Not in MR)
Turnbull, Stephen *see* **Ma, Ching-to; et al., 89j:90049**
Van der Heyden, Ludo *see* **Ginsburgh, Victor A., 89b:90046**
Vasil′ev, V. A. Conditions for the finiteness of information equilibria. (Russian) **89k:90033**
— *see also* **Makarov, Valeriĭ Leonidovich; et al., 89d:90052**
Vilks, Arnis Approximate aggregation of excess demand functions. **89g:90065**
Vind, Karl Exchange equilibrium. **89g:90066**
Vislie, Jon Equilibrium in a market with sequential bargaining and random outside options. **89g:90067**
Vives, Xavier Aggregation of information in large Cournot markets. **89g:90068**
Vohra, Rajiv *see* **Khan, M. Ali, 89h:90045** *and* **89k:90032**
Wallace, Neil *see* **Marimon, Ramon, 89d:90054**
Yamamoto, Yoshitsugu Competitive equilibria in the market with indivisibility. **89c:90037**
Zame, William R. Competitive equilibria in production economies with an infinite-dimensional commodity space. **89a:90047**
Zang, Israel *see* **Kamien, Morton I.; et al., 89g:90059**
Zink, Helmut ★ Zur Rolle der Marktintransparenz in Versicherungsmarktmodellen. (German) [The role of market intransparency in insurance market models] **89j:90059**

Items with secondary classifications in 90A14

Bair, J. Un problème de dualité en programmation quasi-concave. (English summary) [A duality problem in quasiconcave programming] **89g:90182**
Bamberg, G. (*with* Baur, Franz) Commodity futures markets and the level of production. **89k:90025**
Baur, Franz *see* **Bamberg, G., 89k:90025**
(Benassy, Jean Pascal) *see* **Dehez, Pierre**, (**89d:90065**)
Berezneva, T. D. Convergence of price control processes under a monotone demand function. (Russian) **89g:90050**
Bikhchandani, Sushil Reputation in repeated second-price auctions. **89i:90104**
(Binmore, K. G.) *see* **Economic organizations as games, 89e:90246**
Böhm, Volker Returns to size vs returns to scale: the core with production revisited. **89h:90029**
Buiter, Willem H. Efficient "myopic" asset pricing in general equilibrium. A potential pitfall in excess volatility tests. **89b:90022**
Burke, Jonathan L. Inactive transfer policies and efficiency in general overlapping-generations economies. **89g:90052**
Chichilnisky, Graciela A general equilibrium theory of North-South trade. **89g:90078**
Chun, Youngsub Nash solution and timing of bargaining. **89j:90283**
— (*with* Thomson, William L.) Monotonicity properties of bargaining solutions when applied to economics. **89d:90252**
Cohen, Susan I. (*with* Starks, Laura T.) Estimation risk and incentive contracts for portfolio managers. **89f:90014**
Corchòn, Luis C. Cost-prices with variable returns. **89j:90042**
Csaplar, Wilfrid W., Jr. (*with* Tower, Edward) Trade and industrial policy under oligopoly: comment to: "Optimal trade and industrial policy under oligopoly" [Quart. J. Econom. **101** (1986), no. 2, 383–406] by J. Eaton and G. M. Grossman. (Not in MR)
van Damme, Eric ★ Stability and perfection of Nash equilibria. **89f:90205**
— The impossibility of stable renegotiation. **89m:90175**
(Dasgupta, Partha) *see* **Economic organizations as games, 89e:90246**
Debreu, Gerard Economic theory in the mathematical mode. (Chinese) **89h:90005**
Dehez, Pierre (*with* Fitoussi, Jean-Paul) Equilibres de stagflation et indexation des salaires. [Stagflation equilibria and indexation of salaries] (*see* **89d:90065**)
Dermody, Jaime Cuevas (*with* Prisman, Eliezer Zeev) Term structure multiplicity and clientele in markets with transactions costs and taxes. (Not in MR)
Doup, T. M. (*with* van den Elzen, A. H.; Talman, A. J. J.) Simplicial algorithms for solving the nonlinear complementarity problem on the simplotope. **89e:90204**
Duffie, Darrell An extension of the Black-Scholes model of security valuation. **89j:90023**
Dutta, Prajit K. Capital deepening and impatience equivalence in stochastic aggregative growth models. **89k:90038**
(Eaton, Jonathan) *see* **Csaplar, Wilfrid W., Jr.**, (Not in MR)
van den Elzen, A. H. *see* **Doup, T. M.; et al., 89e:90204**
Eplett, W. J. R. The dynamics of marginal equilibria. **89g:58187**
Fitoussi, Jean-Paul (*with* Muet, Pierre-Alain) Macrodynamique et déséquilibres: introduction. [Introduction to macrodynamics and disequilibria] (*see* **89d:90065**)
— *see also* **Dehez, Pierre**, (**89d:90065**)
(Fleurbaey, Marc) *see* **Grandmont, Jean-Michel, 89f:90016**
Forges, Françoise Can sunspots replace a mediator? **89m:90003**
Grandmont, Jean-Michel ★ Monnaie et valeur. (French) [Money and value] **89f:90016**
Greenberg, Joseph Payoffs in generalized sequential bargaining games. **89j:90309**
Greenhut, Melvin L. (*with* Norman, George; Hung, Chao-shun) ★ The economics of imperfect competition. **89g:90001**
Grikienis, Arūnas Some properties of a "non-tâtonnement" exchange process. (Russian. English and Lithuanian summaries) **89i:90023**
(Grossman, Gene M.) *see* **Csaplar, Wilfrid W., Jr.**, (Not in MR)
Hahn, Frank H. An exercise in non-Walrasian analysis. **89d:90057**
Haller, Hans Competition in a stock market with small firms. **89h:90033**
Harker, Patrick T. Accelerating the convergence of the diagonalization and projection algorithms for finite-dimensional variational inequalities. **89d:49004**
Harsanyi, John C. ★ Rational behavior and bargaining equilibrium in games and social situations. **89e:90032**
Heineke, J. M. (*with* Shefrin, H. M.) Exact aggregation and the finite basis property. (Not in MR)
Heller, Walter P. Coordination failure under complete markets with applications to effective demand. **89b:90036**
Hewings, Geoffrey J. D. (*with* Jensen, Rodney C.) Regional, interregional and multiregional input-output analysis. (*see* **89m:90047**)
Holmes, James M. (*with* Manning, Richard) Memory and market stability: the case of the cobweb. (Not in MR)
Hung, Chao-shun *see* **Greenhut, Melvin L.; et al., 89g:90001**
Ide, Toyonari (*with* Takayama, Akira) Scale economies, perverse comparative statics results, the Marshallian stability and the long-run equilibrium for a small open economy. **89g:90070**
— (*with* Takayama, Akira) Marshallian stability, long-run equilibrium and the pattern of specialization under factor-market distortions in the pure theory of international trade. **89g:90071**
Jensen, Rodney C. *see* **Hewings, Geoffrey J. D.**, (**89m:90047**)
Jovanovic, Boyan (*with* Rosenthal, Robert W.) Anonymous sequential games. **89e:90242**
Kalai, Ehud Solutions to the bargaining problem. **89b:90253**
Krouse, Clement G. ★ Capital markets and prices. **89a:90022**
Le Breton, M. On the generic nonexistence of pure strategy Nash equilibria in continuous games. **89a:90174**
Leleno, Joanna M. *see* **Sherali, H. D., 89k:90006**
van Maaren, Hans Generalized pivoting and coalitions. **89g:90012**
Macmillan, W. D. Computable space-time equilibrium models. **89k:90042**
Majumdar, Mukul Decentralization in infinite horizon economies: an introduction. **89h:90038**
Manning, Richard *see* **Holmes, James M.**, (Not in MR)
Mehta, Ghanshyam *see* **Tarafdar, E., 89e:60127**
Mills, David E. Preemptive investment timing. (Not in MR)
Milne, Frank Arbitrage and diversification in a general equilibrium asset economy. **89j:90025**
Moore, John Halstead (*with* Repullo, Rafael) Subgame perfect implementation. **89k:90011**
Muet, Pierre-Alain *see* **Fitoussi, Jean-Paul**, (**89d:90065**)
Myerson, Roger B. Bayesian equilibrium and incentive-compatibility: an introduction. **89b:90010**
Norman, George *see* **Greenhut, Melvin L.; et al., 89g:90001**
Outrata, Jiří V. On numerical solution of optimal control problems with nonsmooth objectives: application to economic models. **89m:93027**
Papageorgiou, Nikolaos S. Contributions to the theory of set valued functions and set valued measures. **89a:28007**
Polterovich, V. M. (*with* Spivak, V. A.) Quota variations in a production system with fixed prices. (Russian. English summary) **89a:90037**
Prisman, Eliezer Zeev *see* **Dermody, Jaime Cuevas**, (Not in MR)
Reisman, Haim A general approach to the arbitrage pricing theory (APT). **89e:90044**
Repullo, Rafael *see* **Moore, John Halstead, 89k:90011**
Rogerson, William P. Price advertising and the deterioration of product quality. (Not in MR)
Rosenthal, Robert W. *see* **Jovanovic, Boyan, 89e:90242**
Rothschild, Michael Asset pricing theories. **89b:90038**
Rubinfeld, Daniel L. The economics of the local public sector. (*see* **89m:90002b**)
Ruckle, William H. The linearizing projection and its application to mathematical economics. **89d:90254**

Rustem, B. (*with* Velupillai, K.) Objective functions and the complexity of policy design. **89a:90105**
Sadanand, V. Endogenously determined price-setting monopoly in an exchange economy. **89k:90026**
Scheinkman, José A. Dynamic general equilibrium models—two examples. **89h:90058**
Shao, Jun Li (*with* Xu, Ming Min) An optimal strategy for commodity auctions. (Chinese) (Not in MR)
Shefrin, H. M. *see* **Heineke, J. M.**, (Not in MR)
Sherali, H. D. (*with* Leleno, Joanna M.) A mathematical programming approach to a Nash-Cournot equilibrium analysis for a two-stage network of oligopolies. **89k:90006**
Shi, Shu Zhong Convex analysis and its applications in microeconomics. (Chinese) **89m:90025**
Shubik, Martin ★ Game theory in the social sciences. Vol. 2. **89c:90130**
Simon, Leo K. Local perfection. **89e:90231**
Singer, Ivan Infimal generators and dualities between complete lattices. **89g:06017**
Spear, Stephen E. Existence and local uniqueness of functional rational expectations equilibria in dynamic economic models. **89e:90065**
Spivak, V. A. *see* **Polterovich, V. M., 89a:90037**
Starks, Laura T. *see* **Cohen, Susan I., 89f:90014**
Stich, W. J. A. An integral for nonmeasurable correspondences and the Shapley-interval. **89f:28014**
Takayama, Akira *see* **Ide, Toyonari, 89g:90070** *and* **89g:90071**
Talman, A. J. J. *see* **Doup, T. M.; et al., 89e:90204**
Tarafdar, E. (*with* Mehta, Ghanshyam) Carathéodory selections, random fixed-point theorems and existence of equilibria. (Serbo-Croatian summary) **89e:60127**
Thomson, William L. The manipulability of the Shapley-value. **89e:90243**
— A study of choice correspondences in economies with a variable number of agents. **89j:90022**
— *see also* **Chun, Youngsub, 89d:90252**
Todd, M. J. Reformulations of economic equilibrium problems for solution by quasi-Newton and simplicial algorithms. **89e:90043**
Tower, Edward *see* **Csaplar, Wilfrid W., Jr.**, (Not in MR)
Van der Heyden, Ludo On a theorem of Scarf. **89i:90022**
Velupillai, K. *see* **Rustem, B., 89a:90105**
Werner, Jan Arbitrage and the existence of competitive equilibrium. **89d:90040**
Xu, Ming Min *see* **Shao, Jun Li**, (Not in MR)
Yannelis, Nicholas C. Fatou's lemma in infinite-dimensional spaces. **89g:28006**

Items listed otherwise than by author

Economic organizations as games ★ Economic organizations as games. **89e:90246**

90A15 Static economic models

Bonanno, Giacomo (*with* Zeeman, E. Christopher) Divergence of choices despite similarity of characteristics: an application of catastrophe theory. **89h:90054**
Campbell, D. E. Redistribution of wealth when knowledge is dispersed. **89j:90060**
Gal-Or, Esther The advantages of imprecise information. **89g:90069**
Green, Jerry R. (*with* Laffont, Jean-Jacques) Incentive theory with data compression. **89b:90050**
— (*with* Laffont, Jean-Jacques) Alternative limited communication systems: centralization versus interchange of information. **89b:90051**
Hahn, Frank H. An exercise in non-Walrasian analysis. **89d:90057**
Howe, Eric C. (*with* Johnson, Charles Royal) Linear aggregation of input-output models. **89k:90034**
Ide, Toyonari (*with* Takayama, Akira) Scale economies, perverse comparative statics results, the Marshallian stability and the long-run equilibrium for a small open economy. **89g:90070**
— (*with* Takayama, Akira) Marshallian stability, long-run equilibrium and the pattern of specialization under factor-market distortions in the pure theory of international trade. **89g:90071**
Johnson, Charles Royal *see* **Howe, Eric C., 89k:90034**
Laffont, Jean-Jacques *see* **Green, Jerry R., 89b:90050** *and* **89b:90051**
Litvakov, B. M. The structure of a set of generating graphs that arise in the theory of pseudocriteria. **89k:90035**
McAfee, R. Preston (*with* McMillan, John) Search mechanisms. **89d:90058**
McMillan, John *see* **McAfee, R. Preston, 89d:90058**
Mirkin, B. G. Modeling of the nonproductive sphere in a scheme of optimal-equilibrium functioning. (Russian) **89k:90036**
Takayama, Akira *see* **Ide, Toyonari, 89g:90070** *and* **89g:90071**
Tříska, Dušan Consumer under supply constraint: Homo secans. (Czech summary) **89j:90061**
Van der Heyden, Ludo On a theorem of Scarf. **89i:90022**
Vorkuev, B. L. ★ Анализ решений экономико-математических моделей. (Russian) [Analysis of the decisions of economic-mathematical models] **89a:90048**
Zeeman, E. Christopher *see* **Bonanno, Giacomo, 89h:90054**

Items with secondary classifications in 90A15

Abdalla, Adil E. A. A characterization of employment distortions in labor contracts with asymmetric information. (Not in MR)
Adilov, G. R. The aggregatability of large systems. (Russian. English and Azerbaijani summaries) **89h:93007**
Berliant, Marcus (*with* ten Raa, Thijs) A foundation of location theory: consumer preferences and demand. **89e:90050**
Brus, Tomek Asymmetric mixtures and catastrophes. **89m:58028**
Hartley, Michael J. Neoclassical econometries [econometrics]: the kernel. **89f:62090**
Huo, Teh M. Observational equivalence of the overlapping-generations and the cash-in-advance economies. **89a:90033**
Kajii, Atsushi Note on equilibria without ordered preferences in topological vector spaces. **89m:90031**
Kranüchel, Rolf ★ Kooperation auf homogenen und heterogenen Oligopolmärkten. (German) [Cooperation on homogeneous and heterogenous oligopoly markets] **89c:90031**
Menezes, C. F. *see* **Tressler, J. H.**, (Not in MR)
Quirmbach, Herman C. Comparative statics for oligopoly: demand shift effects. **89m:90036**
ten Raa, Thijs *see* **Berliant, Marcus, 89e:90050**
Rubinov, A. M. Equilibrium mechanisms of efficient economic development. (Russian) **89i:90021**
Tian, Guo Qiang On the constrained Walrasian and Lindahl correspondences. **89j:90058**
Tressler, J. H. (*with* Menezes, C. F.) The comparative statics of a competitive industry facing demand uncertainty. (Not in MR)
Varian, Hal R. Estimating risk aversion from Arrow-Debreu portfolio choice. **89j:90030**
Vilks, Arnis Approximate aggregation of excess demand functions. **89g:90065**
Yamada, Takeo A note on sign-solvability of linear system of equations. **89g:15005**

90A16 Dynamic economic models

Aiyagari, S. Rao Can there be short-period deterministic cycles when people are long lived? (Not in MR)
Andrusevich, V. V. (*with* Kveselava, A. D.; Kukuliev, G. Yu.) Collective behavior processes in problems of the distribution of a multidimensional resource. **89f:90031**
Balasko, Yves (*with* Shell, Karl) Lump-sum taxes and transfers: public debt in the overlapping-generations model. **89c:90038**
Basto Gonçalves, J. Control of a neoclassic economic model. **89m:90038**
Belen′kiĭ, V. Z. (*with* Belostotskiĭ, A. M.) Control of economic systems under the process of data improvement. **89g:90072**
Belostotskiĭ, A. M. *see* **Belen′kiĭ, V. Z., 89g:90072**
Blaseio, Helmuth ★ Das Kognos-Prinzip. (German) [The Kognos principle] **89d:90059**
Borisov, K. Yu. Turnpike properties of δ-optimal trajectories in models of economic dynamics. (Russian) **89k:90037**
(Boyer, Robert P.) *see* **Muet, Pierre-Alain, 89f:90034**
Buckley, J. J. Fuzzy input-output analysis. (Not in MR)
Calvo, Guillermo A. (*with* Obstfeld, Maurice) Optimal time-consistent fiscal policy with finite lifetimes. **89c:90039**
Chow, Gregory C. ★ Analysis and control of dynamic economic systems. **89d:90060**
Colonius, F. Poincaré-Bendixson theory for control problems with continuous optimal controls. **89j:90062**
Cooper, Russel J. *see* **McLaren, Keith R., 89c:90042**
Cooper, Russell Labor contracts and the role of monetary policy in an overlapping generations model. **89d:90061**
— (*with* John, Andrew) Coordinating coordination failures in Keynesian models. (Not in MR)
Dasgupta, Swapan (*with* Mitra, Tapan) Characterization of intertemporal optimality in terms of decentralizable conditions: the discounted case. **89h:90055**
Davis, M. H. A. (*with* Gómez M., Guillermo L.) The semimartingale approach to the optimal resource allocation in the controlled labour-surplus economy. **89d:90062**
— (*with* Gómez M., Guillermo L.) The martingale maximum principle and the allocation of labour surplus. **89d:90063**
Dement′ev, N. P. Estimates for the convergence of optimal trajectories in models of economic dynamics. (Russian) **89j:90063**
Dietzenbacher, E. Estimation of the Leontief inverse from the practitioner's point of view. **89g:90073**
Dockner, Engelbert J. *see* **Neck, Reinhard, 89k:90040**
Dutta, Prajit K. Capital deepening and impatience equivalence in stochastic aggregative growth models. **89k:90038**
Farrell, Joseph (*with* Shapiro, Carl) Dynamic competition with switching costs. **89b:90052**
Feichtinger, Gustav Periodic optimal control: can oscillations be optimal in autonomous economic control models? **89b:90053**
— (*with* Sorger, Gerhard) Periodic research and development. **89j:90064**
Fudenberg, Drew (*with* Tirole, Jean) Erratum: "Preemption and rent equalization in the adoption of new technology" [Rev. Econom. Stud. 52 (1985), no. 3, 383–401; MR 86k:90050]. **89g:90074**
Gómez M., Guillermo L. Discounted values and stochastic rates arising in control theory. **89c:90040**
— Attainability and reversibility of a golden age for the labour-surplus economy: a stochastic variational approach. **89j:90065**
— *see also* **Davis, M. H. A., 89d:90062** *and* **89d:90063**
Grikienis, Arūnas Some properties of a "non-tâtonnement" exchange process. (Russian. English and Lithuanian summaries) **89i:90023**
Gurman, V. I. Extensions of differential systems and their applications to the investigation of natural-economic models. (Russian) **89c:90041**
Hoag, John *see* **Neumann, Dean; et al., 89j:90068**
Holmes, James M. (*with* Manning, Richard) Memory and market stability: the case of the cobweb. (Not in MR)
Hurwicz, Leonid (*with* Majumdar, Mukul) Optimal intertemporal allocation mechanisms and decentralization of decisions. **89g:90075**
John, Andrew *see* **Cooper, Russell**, (Not in MR)
Khademian, H. Catastrophe theory: an application to a business cycle model. **89g:90076**
Kim, Kyoo *see* **Neumann, Dean; et al., 89j:90068**
Király, Júlia Inhomogeneous population in growth models. (Hungarian. English summary) (Not in MR)
Kort, Peter M. The influence of a stochastic environment on the firm's optimal dynamic investment policy. **89j:90066**
Kosarev, Yu. G. A generalized model for harmonic systems. (Russian) **89e:90062**
Krasnikova, L. I. *see* **Yastremskiĭ, A. I.**, (Not in MR)
Kukuliev, G. Yu. *see* **Andrusevich, V. V.; et al., 89f:90031**
Kveselava, A. D. *see* **Andrusevich, V. V.; et al., 89f:90031**
Lasry, Jean-Michel EDP et anticipations rationnelles (à partir du modèle de J. Scheinkman et L. Weiss). [PDE and rational expectations (based on the model of J. Scheinkman and L. Weiss)] **89e:90063**

Lorenz, Hans-Walter Goodwin's nonlinear accelerator and chaotic motion. **89k:90039**
MacLean, L. C. *see* **Sutherland, W. R. S., 89m:90041**
Majumdar, Mukul (*with* Zilcha, Itzhak) Optimal growth in a stochastic environment: some sensitivity and turnpike results. **89b:90054**
— *see also* **Hurwicz, Leonid, 89g:90075**
Mañas, Miroslav Mathematical models of the control of a national economy. (Czech. English summary) **89h:90056**
Manning, Richard *see* **Holmes, James M.**, (Not in MR)
Mashchenko, S. O. *see* **Voloshin, A. F.; et al., 89m:90042**
McLaren, Keith R. (*with* Cooper, Russel J.) Functional forms in intertemporal duality. **89c:90042**
Melekhin, V. N. *see* **Melekhina, K. V.**, (Not in MR)
Melekhina, K. V. (*with* Melekhin, V. N.) Instability of solutions of difference equations in a problem of production capacity planning. (Russian) (Not in MR)
Mitra, Tapan *see* **Dasgupta, Swapan, 89h:90055**
Mohr, Ernst^{2} Appropriation of common access natural resources through exploration: the relevance of the open-loop concept. **89f:90032**
Montrucchio, Luigi Lipschitz continuous policy functions for strongly concave optimization problems. **89f:90033**
Muet, Pierre-Alain ★ Théories et modèles de la macroéconomie. Tome I. (French) [Macroeconomic theories and models. Vol. I] **89f:90034**
Mukanov, A. A. Simultaneous functioning of the simplest models of economic dynamics. (Russian) **89j:90067**
Nasritdinov, G. On the existence of a turnpike for a model of economic growth. (Russian) (*see* **89c:00022**)
Neck, Reinhard (*with* Dockner, Engelbert J.) On the optimality of cyclical stabilization policies: some variations on a model of Nordhaus. **89k:90040**
Neumann, Dean (*with* O'Brien, Thomas; Hoag, John; Kim, Kyoo) Policy functions for capital accumulation paths. **89j:90068**
Nieuwenhuis, J. W. Some results about a Leontieff-type model. **89c:90043**
Nyarko, Yaw On characterizing optimality of stochastic competitive processes. **89m:90039**
O'Brien, Thomas *see* **Neumann, Dean; et al., 89j:90068**
Obstfeld, Maurice *see* **Calvo, Guillermo A., 89c:90039**
Okhrimenko, M. G. *see* **Voloshin, A. F.; et al., 89m:90042**
Papava, V. G. A unified approach to the investigation of the properties of dynamic input-output balance models. (Russian) (Not in MR)
Pomanskiĭ, A. B. (*with* Trofimov, G. Yu.) Flexible and stable normative economic indicators. (Russian) **89e:90064**
(Prou, Charles) *see* **Muet, Pierre-Alain, 89f:90034**
Rampa, G. (*with* Rampa, L.) Fluctuating growth with induced innovations. **89h:90057**
Rampa, L. *see* **Rampa, G., 89h:90057**
Scheinkman, José A. Dynamic general equilibrium models—two examples. **89h:90058**
Shao, Jun Li (*with* Xu, Ming Min) An optimal strategy for commodity auctions. (Chinese) (Not in MR)
Shapiro, Carl *see* **Farrell, Joseph, 89b:90052**
Shell, Karl *see* **Balasko, Yves, 89c:90038**
Sorger, Gerhard Competitive dynamic advertising. A modification of the case game. **89j:90069**
— *see also* **Feichtinger, Gustav, 89j:90064**
Spear, Stephen E. Existence and local uniqueness of functional rational expectations equilibria in dynamic economic models. **89e:90065**
Surovtsov, L. K. A turnpike theorem in a problem of the control of reversible processes. **89m:90040**
Sutherland, W. R. S. (*with* MacLean, L. C.) Sensitivity analysis of optimal growth plans with exogenous capital stocks. **89m:90041**
Taub, Bart Aggregate fluctuations as an information transmission mechanism. **89j:90070**
— Dynamic consistency of insurance contracts under enforcement by exclusion. **89j:90071**
Tauber, S. Economic modelling by lump algebras. **89d:90064**
Tirole, Jean *see* **Fudenberg, Drew, 89g:90074**
Trofimov, G. Yu. *see* **Pomanskiĭ, A. B., 89e:90064**
Tsvirkun, A. D. (*with* Yakovenko, S. Yu.) Lyapunov functions and turnpike theory. **89c:90044**
Vedina, O. I. Some estimates for a turnpike in von Neumann-Gale models of economic dynamics. (Russian) **89f:90035**
Vlasyuk, B. A. Closed-loop control of a multiproduct system of manufacturing elements. **89j:90072**
Voloshin, A. F. (*with* Mashchenko, S. O.; Okhrimenko, M. G.) An algorithm for the sequential analysis of variants for solving balance models. (Russian. English summary) **89m:90042**
Wang, Su Sheng On economic growth models. (Chinese) **89i:90024**
Xu, Ming Min *see* **Shao, Jun Li**, (Not in MR)
Yakovenko, S. Yu. Asymptotic behavior of optimal trajectories in Gale models that operate in continuous time. (Russian. English summary) **89b:90055**
— *see also* **Tsvirkun, A. D., 89c:90044**
Yastremskiĭ, A. I. (*with* Krasnikova, L. I.) Application of methods for solving minimax problems to problems of resource allocation. (Russian) (Not in MR)
Yatsenko, Yu. P. A study of an integral model for the control of the structure of economic systems. (Russian) **89m:90043**
Zaslavskiĭ, A. Ya. The turnpike of a nonlinear model of economic dynamics. (Russian. English and Lithuanian summaries) **89h:90059**
— A differential connection and related models in mathematical economics. **89m:90044**
— Turnpike sets in models of economic dynamics. (Russian. English summary) **89k:90041**
Zhang, Wei-Bin Cyclical economic development with international noninstantaneous transfer of technical knowledge. **89m:90045**
Zilcha, Itzhak *see* **Majumdar, Mukul, 89b:90054**

Items with secondary classifications in 90A16

Amman, Hans M. (*with* Jager, Henk) Constrained control algorithm for nonlinear control problems. **89h:93027**
Andersson, Å. E. (*with* Casti, J.; Christiansen, P. L.; Karlqvist, A.) Emerging paradigms in applied mathematical modelling—an introduction. **89j:92001**
Arsham, H. (*with* Dianich, D.) Consumer buying behavior and optimal advertising strategy: the quadratic profit function case. **89g:90008**
Asheim, Geir B. Rawlsian intergenerational justice as a Markov-perfect equilibrium in a resource technology. **89h:90011**
Batyrkanov, M. Sh. *see* **Lange, È. G., 89h:65058**
Bennett, Robert J. (*with* Hordijk, Leen) Regional econometric and dynamic models. (*see* **89m:90047**)
Berninghaus, S. (*with* Völker, R.) Optimale Innovationspolitik bei unvollständiger Information. (English summary) [Optimal innovation policy under incomplete information] **89h:90002**
Borisov, K. Yu. (*with* Rubinov, A. M.) Model analysis of the possibilities for the extensive growth of the Soviet economy. (Russian) (Not in MR)
(Braat, L. C.) *see* **Economic-ecological modeling, 89d:90076**
Brokate, Martin On a certain optimal harvesting problem with continuous age structure. **89d:92051**
Brusco, Sandro Heterogeneous distribution of information and convergence to rational expectations equilibrium in a partial equilibrium model. **89j:90045**
Busse, H.-G. (*with* Havsteen, B.) Analysis of life processes and economic systems by methods of thermodynamics. (*see* **89g:92002**)
Casti, J. *see* **Andersson, Å. E.; et al., 89j:92001**
Chichilnisky, Graciela A general equilibrium theory of North-South trade. **89g:90078**
Christiansen, P. L. *see* **Andersson, Å. E.; et al., 89j:92001**
Cochrane, John H. (*with* Sbordone, Argia M.) Multivariate estimates of the permanent components of GNP and stock prices. (*see* **89j:62004**)
Derzko, N. A. *see* **Seidman, Thomas I.; et al., 89b:90057**
Dianich, D. *see* **Arsham, H., 89g:90008**
Dutta, Prajit K. (*with* Mitra, Tapan) Maximum theorems for convex structures with an application to the theory of optimal intertemporal allocation. **89m:90030**
Engwerda, Jacob Christiaan ★ Regulation of linear discrete time-varying systems. **89g:93061**
Feroldi, Mathieu (*with* Sterdyniak, Henri) La dynamique du taux de change: du long au court terme. [Exchange rate dynamics: from the long to the short term] (*see* **89d:90065**)
Fitoussi, Jean-Paul (*with* Velupillai, K.) Growth and cycles in distributive shares output and employment. (*see* **89d:90065**)
Franke, Reiner (*with* Weghorst, W.) Complex dynamics in a simple input-output model without the full capacity utilization hypothesis. **89m:90046**
Fudenberg, Drew (*with* Levine, David K.) Open-loop and closed-loop equilibria in dynamic games with many players. **89c:90115**
Gehrig, W. On a characterization of the Shannon concentration measure. **89h:39009**
Goodwin, Richard M. The use of gradient dynamics in linear general disequilibrium theory. (*see* **89d:90065**)
— *see also* **Fitoussi, Jean-Paul**, (**89d:90065**)
Gorbachuk, V. M. Strange attractors in *n*-person differential games. (Russian) **89f:90218**
Gradus, Raymond H. J. M. The reaction of the firm on governmental policy: a game-theoretical approach. (*see* **89d:90002**)
Guo, Bao Ping Macroeconomic dynamic input-output control model with time-delay investment. **89g:90079**
Hahn, Frank H. ★ Money, growth and stability. **89k:90030**
Hartl, Richard F. A wheat trading model with demand and spoilage. **89h:90008**
Haurie, A. (*with* Hollander, A.) A note on incremental incentives in continuous time. **89j:90024**
Havsteen, B. *see* **Busse, H.-G.**, (**89g:92002**)
Hollander, A. *see* **Haurie, A., 89j:90024**
Hordijk, Leen *see* **Bennett, Robert J.**, (**89m:90047**)
Howitt, Peter (*with* McAfee, R. Preston) Stability of equilibria with externalities. **89d:90048**
Idzik, Adam A dynamic production and consumption model. (Russian. English and Lithuanian summaries) **89e:90056**
Ishida, Tsutomu Three-level incentive schemes using follower's strategies in differential games. **89a:90177**
Ivashchenko, P. A. ★ Адаптация в экономике. (Russian) [Adaptation in economics] **89g:90002**
Jager, Henk *see* **Amman, Hans M., 89h:93027**
Karlqvist, A. *see* **Andersson, Å. E.; et al., 89j:92001**
Kempf, Hubert Rational expectations, imperfect price adjustment and the optimality of monetary policy. **89i:90018**
Kondrat′ev, A. I. Continual strategic models. **89i:90100**
(Kurzhanskiĭ, A. B.) *see* **Lohmander, P., 89d:90074**
(Laffargue, Jean-Pierre) *see* **Feroldi, Mathieu**, (**89d:90065**)
Lange, È. G. (*with* Batyrkanov, M. Sh.) Solution of a system of linear algebraic equations of special type. (Russian) **89h:65058**
Leach, John Underemployment with liquidity-constrained multiperiod firms. **89c:90019**
Levine, David K. *see* **Fudenberg, Drew, 89c:90115**
Li, Lode A stochastic theory of the firm. **89i:90015**
(van Lierop, W. F. J.) *see* **Economic-ecological modeling, 89d:90076**
Lohmander, P. Continuous extraction under risk. **89d:90074**
Lombardo, Silvana T. New developments of a dynamic urban retail model with reference to consumers' mobility and costs for developers. (*see* **89e:90072**)
Lorenz, Hans-Walter On the uniqueness of limit cycles in business cycle theory. **89e:90057**
(Malgrange, Pierre) *see* **Goodwin, Richard M.**, (**89d:90065**)
McAfee, R. Preston *see* **Howitt, Peter, 89d:90048**
Melese, François (*with* Transue, William Raoul Reagle) Unscrambling chaos through thick and thin: an explanation. **89d:58086**
Mesterton-Gibbons, M. On the optimal policy for combined harvesting of independent species. **89d:92074a**
— Errata: "On the optimal policy for combined harvesting of independent species". **89d:92074b**

Miron A., Miguel-Angel Représentation de l'espace urbain et systèmes de référence spatiaux. [Representation of urban space and spatial reference systems] **89b:92031**

Mitra, Tapan *see* **Dutta, Prajit K., 89m:90030**

Miyao, Takahiro *see* **Nishimura, Kazuo, 89h:90035**

Moulin, Hervé A core selection for regulating a single-output monopoly. **89h:90034**

Musgrave, R. A. A brief history of fiscal doctrine. (*see* **89m:90002a**)

Nishimura, Kazuo (*with* Miyao, Takahiro) On aggregated growth models with nonconcave production functions. **89h:90035**

Okuguchi, Koji *see* **Szidarovszky, Ferenc, 89i:90098**

Petrosyan, L. A. (*with* Shiryaev, V. D.) ★ Иерархические игры. (Russian) [Hierarchical games] **89b:90255**

Rubinov, A. M. *see* **Borisov, K. Yu.**, (Not in MR)

Sakaguchi, Minoru An entropy model for brand selection behavior. Entry of a new brand. **89a:90012**

Salvadori, Neri Fixed capital within a von Neumann-Morishima model of growth and distribution. **89e:90045**

Sbordone, Argia M. *see* **Cochrane, John H.**, (**89j:62004**)

Seidman, Thomas I. (*with* Sethi, Suresh P.; Derzko, N. A.) Dynamics and optimization of a distributed sales-advertising model. **89b:90057**

Sengupta, Jati K. ★ Stochastic optimization and economic models. **89e:90003**

Sethi, Suresh P. *see* **Seidman, Thomas I.; et al., 89b:90057**

Shiryaev, V. D. *see* **Petrosyan, L. A., 89b:90255**

Slivinskas, Algimantas Asymptotic behavior of the optimal trajectories in a model for the control of renewable resources. (Russian. English and Lithuanian summaries) **89e:90071**

Song, Jian (*with* Yu, Jing Yuan) ★ Population system control. **89f:92050**

Sorger, Gerhard Reference price formation and optimal marketing strategies. **89h:90040**

Stanfel, L. E. New dynamic programming models of fisheries management. **89k:90044**

Sterdyniak, Henri *see* **Feroldi, Mathieu**, (**89d:90065**)

Szidarovszky, Ferenc (*with* Okuguchi, Koji) On the stability of an adaptive quadratic game. (Hungarian. English summary) **89i:90098**

Transue, William Raoul Reagle *see* **Melese, François, 89d:58086**

Velupillai, K. *see* **Fitoussi, Jean-Paul**, (**89d:90065**)

Võlker, R. *see* **Berninghaus, S., 89h:90002**

Vorkuev, B. L. ★ Анализ решений экономико-математических моделей. (Russian) [Analysis of the decisions of economic-mathematical models] **89a:90048**

Weghorst, W. *see* **Franke, Reiner, 89m:90046**

Yu, Jing Yuan *see* **Song, Jian, 89f:92050**

Zadrozny, Peter Analytic derivatives for estimation of discrete-time, linear-quadratic, dynamic, optimization models. **89e:49028**

Zijm, W. H. M. Asymptotic expansions for dynamic programming recursions with general nonnegative matrices. **89c:90107**

Items listed otherwise than by author

Economic-ecological modeling ★ Economic-ecological modeling. **89d:90076**

90A17 Multisectoral models

Aiyagari, S. Rao Nonmonetary steady states in stationary overlapping generations models with long lived agents and discounting: multiplicity, optimality, and consumption smoothing. **89g:90077**

Belova, L. A. (*with* Lipaev, V. V.) Forecasting of technical-economic indices of the development of complex programs for control systems. (Not in MR)

(Benassy, Jean Pascal) *see* **Dehez, Pierre**, (**89d:90065**)

Bennett, Robert J. (*with* Hordijk, Leen) Regional econometric and dynamic models. (*see* **89m:90047**)

Berlyand, E. L. (*with* Busygin, V. P.) Models for input-output balance with input and output functions. (Russian) **89a:90049**

Boiteux, Marcel Faut-il renoncer au calcul économique? [Must we renounce economic calculus?] (*see* **89f:90002**)

Borisov, K. Yu. (*with* Rubinov, A. M.) Model analysis of the possibilities for the extensive growth of the Soviet economy. (Russian) (Not in MR)

Busygin, V. P. *see* **Berlyand, E. L., 89a:90049**

Campisi, Domenico (*with* La Bella, Agostino) Transportation investment and dynamic equilibrium in a multiregional input-output system. (*see* **89f:00029**)

Chen, Ping Multiperiodicity and irregularity in growth cycles: a continuous model of monetary attractors. **89h:90060**

Chichilnisky, Graciela A general equilibrium theory of North-South trade. **89g:90078**

Cohon, Jared L. (*with* Scavone, Giuseppe; Solanki, Rajendra) Multicriterion optimization in resources planning. (*see* **89f:90171**)

Dehez, Pierre (*with* Fitoussi, Jean-Paul) Equilibres de stagflation et indexation des salaires. [Stagflation equilibria and indexation of salaries] (*see* **89d:90065**)

Dietzenbacher, E. Trade imbalance in an input-output model. (Not in MR)

Duménil, Gérard (*with* Lévy, Dominique) La concurrence capitaliste: un processus dynamique. [Capitalist competition: a dynamical process] (*see* **89d:90065**)

Feroldi, Mathieu (*with* Sterdyniak, Henri) La dynamique du taux de change: du long au court terme. [Exchange rate dynamics: from the long to the short term] (*see* **89d:90065**)

Fitoussi, Jean-Paul (*with* Muet, Pierre-Alain) Macrodynamique et déséquilibres: introduction. [Introduction to macrodynamics and disequilibria] (*see* **89d:90065**)

— (*with* Velupillai, K.) Growth and cycles in distributive shares output and employment. (*see* **89d:90065**)

— *see also* **Dehez, Pierre**, (**89d:90065**) *and* **Macrodynamics and disequilibria, 89d:90065**

Franke, Reiner (*with* Weghorst, W.) Complex dynamics in a simple input-output módel without the full capacity utilization hypothesis. **89m:90046**

Gérard-Varet, Louis-André (*with* Jordan, Robert; Kirman, Alain) Dynamique des stocks et équilibre budgétaire dans un modèle où les prix sont contraints à la baisse. [The dynamics of stocks and budgetary equilibrium in a model with falling prices] (*see* **89d:90065**)

Goodwin, Richard M. The use of gradient dynamics in linear general disequilibrium theory. (*see* **89d:90065**)

— *see also* **Fitoussi, Jean-Paul**, (**89d:90065**)

Guo, Bao Ping Macroeconomic dynamic input-output control model with time-delay investment. **89g:90079**

Haining, Robert Income diffusion and regional economics. (*see* **89e:90072**)

Hewings, Geoffrey J. D. (*with* Jensen, Rodney C.) Regional, interregional and multiregional input-output analysis. (*see* **89m:90047**)

Hordijk, Leen *see* **Bennett, Robert J.**, (**89m:90047**)

Hughes-Hallett, A. J. (*with* Petit, M. L.) The reversed trade-off problem in optimal economic policy selection. (*see* **89d:90002**)

Jensen, Rodney C. *see* **Hewings, Geoffrey J. D.**, (**89m:90047**)

Johansson, Börje (*with* Leonardi, Giorgio) Public facility location: a multiregional and multi-authority decision context. (*see* **89m:90047**)

Jordan, Robert *see* **Gérard-Varet, Louis-André; et al.**, (**89d:90065**)

Kirman, Alain *see* **Gérard-Varet, Louis-André; et al.**, (**89d:90065**)

La Bella, Agostino *see* **Campisi, Domenico**, (**89f:00029**)

(Laffargue, Jean-Pierre) *see* **Feroldi, Mathieu**, (**89d:90065**)

Leonardi, Giorgio *see* **Johansson, Börje**, (**89m:90047**)

Lévy, Dominique *see* **Duménil, Gérard**, (**89d:90065**)

Lipaev, V. V. *see* **Belova, L. A.**, (Not in MR)

(Lipietz, Alain) *see* **Duménil, Gérard**, (**89d:90065**)

Lotov, A. V. Agreement of economic models using sets of feasibility. (Russian) (*see* **89j:90003**)

Macmillan, W. D. Computable space-time equilibrium models. **89k:90042**

(Malgrange, Pierre) *see* **Goodwin, Richard M.**, (**89d:90065**)

Mitter, Peter Take-some games: the commons dilemma and a land of Cockaigne. (*see* **89d:90019**)

Mountain, Dean C. The Rotterdam model: an approximation in variable space. (Not in MR)

Muet, Pierre-Alain (*with* Topol, Richard) Un modèle post-keynésien de développement. [A post-Keynesian model of development] (*see* **89d:90065**)

— *see also* **Fitoussi, Jean-Paul**, (**89d:90065**) *and* **Macrodynamics and disequilibria, 89d:90065**

Nijkamp, Peter (*with* Rietveld, Piet; Snickars, Folke) Regional and multiregional economic models: a survey. (*see* **89m:90047**)

— (*with* Rietveld, Piet) Multiple objective decision analysis in regional economics. (*see* **89m:90047**)

— *see also* **Handbook: Regional and urban economics, 89m:90047**

Ognivtsev, S. B. An approach to the approximation of polyhedral sets. **89h:90061**

Omarov, T. F. Spatial exchange of labor resources in an isolated system. (Russian. Kazakh summary) **89e:90066**

— An approximate method for solving a macrodynamic problem of resource exchange. (Russian. Kazakh summary) **89e:90067**

Petit, M. L. *see* **Hughes-Hallett, A. J.**, (**89d:90002**)

Prasad, Kislaya Parallel distributed processing models for economic systems and games. **89j:90073**

Puu, Tõnu Structural stability as a modeling instrument in spatial economics. **89k:90043**

Ribhegge, Hermann ★ Grenzen der Theorie rationaler Erwartungen. (German) [Limits of the theory of rational expectations] **89f:90036**

Rietveld, Piet *see* **Nijkamp, Peter; et al.**, (**89m:90047**) *and* (**89m:90047**)

Rubinfeld, Daniel L. The economics of the local public sector. (*see* **89m:90002b**)

Rubinov, A. M. *see* **Borisov, K. Yu.**, (Not in MR)

Scavone, Giuseppe *see* **Cohon, Jared L.; et al.**, (**89f:90171**)

Snickars, Folke *see* **Nijkamp, Peter; et al.**, (**89m:90047**)

Solanki, Rajendra *see* **Cohon, Jared L.; et al.**, (**89f:90171**)

Sterdyniak, Henri *see* **Feroldi, Mathieu**, (**89d:90065**) *and* **Gérard-Varet, Louis-André; et al.**, (**89d:90065**)

Szpiro, George G. Hirschman versus Herfindahl: some topological properties for the use of concentration indexes. **89a:90050**

Topol, Richard *see* **Muet, Pierre-Alain**, (**89d:90065**)

Tsirlin, M. B. The method of disaggregation of aggregated input-output balances. (Russian) (Not in MR)

Velupillai, K. *see* **Fitoussi, Jean-Paul**, (**89d:90065**) *and* **Muet, Pierre-Alain**, (**89d:90065**)

Vilares, Manuel José Un modèle macroéconomique pour l'étude des changements structurels. Théorie et application à l'économie française. [A macroeconomic model for the study of structural changes. Theory and application to the French economy] (*see* **89d:90065**)

(Villa, Pierre) *see* **Vilares, Manuel José**, (**89d:90065**)

Weghorst, W. *see* **Franke, Reiner, 89m:90046**

Zhang, Wei-Bin Hopf bifurcations in multisector models of optimal economic growth. **89j:90074**

Items listed otherwise than by author

Handbook:

Regional and urban economics ★ Handbook of regional and urban economics. Vol. 1. **89m:90047**

Macrodynamics and disequilibria ★ Macrodynamique et déséquilibres. (French) [Macrodynamics and disequilibria] **89d:90065**

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Items with secondary classifications in 90A17

Adilov, G. R. The aggregatability of large systems. (Russian. English and Azerbaijani summaries) **89h:93007**

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Balasko, Yves (*with* Shell, Karl) Lump-sum taxes and transfers: public debt in the overlapping-generations model. **89c:90038**

Batten, David F. (*with* Boyce, David E.) Spatial interaction, transportation, and interregional commodity flow models. (*see* **89m:90047**)

Boyce, David E. *see* **Batten, David F.**, (**89m:90047**)

(**Boyer, Robert P.**) *see* **Muet, Pierre-Alain, 89f:90034**

Chervinskiĭ, R. A. ★ Методы синтеза систем в целевых программах. (Russian) [Methods for the design of systems in objective programs] **89d:90241**

(**Eisner, Robert**) *see* **Artus, Patrick**, (**89d:90065**)

Feichtinger, Gustav Periodic optimal control: can oscillations be optimal in autonomous economic control models? **89b:90053**

Griffith, Daniel A. *see* **Huff, James; et al., 89j:92074**

Howe, Eric C. (*with* Johnson, Charles Royal) Linear aggregation of input-output models. **89k:90034**

Huff, James (*with* Griffith, Daniel A.; Sonis, Michael; Leifer, Lloyd A.; Straussfogel, Debra) Dynamic central place theory: an appraisal and future prospects. **89j:92074**

Inman, Robert P. Markets, governments, and the "new" political economy. (*see* **89m:90002b**)

Johnson, Charles Royal *see* **Howe, Eric C., 89k:90034**

Kondrat'ev, V. V. Compatibility, coordination and optimization problems in active systems. (Russian. English summary) **89a:90007**

Krelle, Wilhelm Structural change induced by foreign trade. What are the advantages for the country? (*see* **89j:90002**)

Kuenne, R. E. *see* **Andersson, Å. E.**, (**89m:90047**)

Leifer, Lloyd A. *see* **Huff, James; et al., 89j:92074**

MacLean, L. C. *see* **Sutherland, W. R. S., 89m:90041**

Malecki, E. J. (*with* Varaiya, P.) Innovation and changes in regional structure. (*see* **89m:90047**)

Maňas, Miroslav Mathematical models of the control of a national economy. (Czech. English summary) **89h:90056**

Muet, Pierre-Alain ★ Théories et modèles de la macroéconomie. Tome I. (French) [Macroeconomic theories and models. Vol. I] **89f:90034**

— *see also* **Artus, Patrick**, (**89d:90065**)

Odum, H. T. Models for national, international, and global systems policy. (*see* **89d:90076**)

Papava, V. G. A unified approach to the investigation of the properties of dynamic input-output balance models. (Russian) (Not in MR)

(**Prou, Charles**) *see* **Muet, Pierre-Alain, 89f:90034**

Rogerson, Richard Recursive competitive equilibrium in multi-sector economies. **89m:90037**

Shell, Karl *see* **Balasko, Yves, 89c:90038**

Sonis, Michael *see* **Huff, James; et al., 89j:92074**

Straussfogel, Debra *see* **Huff, James; et al., 89j:92074**

Sutherland, W. R. S. (*with* MacLean, L. C.) Sensitivity analysis of optimal growth plans with exogenous capital stocks. **89m:90041**

Varaiya, P. *see* **Malecki, E. J.**, (**89m:90047**)

90A19 Statistical models

Acharya, Sankarshan A generalized econometric model and tests of a signalling hypothesis with two discrete signals. **89d:90066**

Bennett, Robert J. Nonlinear representation of the profit impacts of local government tax and expenditure decisions. (*see* **89e:90072**)

Brouwer, Floor *see* **Wrigley, Neil**, (**89m:90047**)

Cochrane, John H. (*with* Sbordone, Argia M.) Multivariate estimates of the permanent components of GNP and stock prices. (*see* **89j:62004**)

Drèze, Jean (*with* Stern, Nicholas) The theory of cost-benefit analysis. (*see* **89m:90002b**)

Sbordone, Argia M. *see* **Cochrane, John H.**, (**89j:62004**)

Shi, Yan (*with* Tong, Shao Cheng) A fuzzy prediction method. (Chinese. English summary) **89i:90025**

Staroverov, O. V. Stable mixtures. (Russian) **89d:90067**

Stern, Nicholas *see* **Drèze, Jean**, (**89m:90002b**)

Tong, Shao Cheng *see* **Shi, Yan, 89i:90025**

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Wrigley, Neil (*with* Brouwer, Floor) Qualitative statistical models for regional economic analysis. (*see* **89m:90047**)

Items with secondary classifications in 90A19

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Anderson, Simon P. (*with* de Palma, André; Thisse, Jacques-François) A representative consumer theory of the logit model. **89m:90020**

Bierens, Herman J. (*with* Hartog, Joop) Nonlinear regression with discrete explanatory variables, with an application to the earnings function. **89i:62177**

Brouwer, Floor (*with* Nijkamp, Peter; Scholten, H.) Hybrid log-linear models for spatial interaction and stability analysis. **89h:62176**

Chung, Ching-Fan *see* **Theil, Henri, 89m:62070**

Cooke, Justin *see* **Ludwig, D.; et al., 89c:90045**

(**Desai, Meghnad**) *see* **Sargan, John Denis, 89k:62129**

Epstein, Roy J. ★ A history of econometrics. **89d:62112**

Guttorp, Peter *see* **Aase, Knut K.**, (Not in MR)

Haining, Robert Income diffusion and regional economics. (*see* **89e:90072**)

Hartog, Joop *see* **Bierens, Herman J., 89i:62177**

Lerman, I. C. Maximisation de l'association entre deux variables qualitatives ordinales. (English summary) [Maximal association between two ordinal qualitative variables] **89b:90013**

Ludwig, D. (*with* Walters, C. J.; Cooke, Justin) Comparison of two models and two estimation methods for catch and effort data. **89c:90045**

Nijkamp, Peter *see* **Brouwer, Floor; et al., 89h:62176**

Oksanen, E. H. Principal components in econometrics. **89e:62073**

de Palma, André *see* **Anderson, Simon P.; et al., 89m:90020**

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Sargan, John Denis ★ Lectures on advanced econometric theory. **89k:62129**

Scholten, H. *see* **Brouwer, Floor; et al., 89h:62176**

Stahlecker, P. ★ A priori Information und Minimax-Schätzung im linearen Regressionsmodell. (German) [A priori information and minimax estimation in the linear regression model] **89g:62171**

Theil, Henri (*with* Chung, Ching-Fan) Information-theoretic measures of fit for univariate and multivariate linear regressions. **89m:62070**

Thisse, Jacques-François *see* **Anderson, Simon P.; et al., 89m:90020**

Walters, C. J. *see* **Ludwig, D.; et al., 89c:90045**

90A20 Economic time series analysis [see also 62M10]

Arminger, Gerhard Fallacies and paradoxes caused by heterogeneity. (*see* **89d:90019**)

Cristóbal Cristóbal, Alfredo Incomplete integral time series analysis. Parameter estimation. (Spanish. English summary) (*see* **89d:00009**)

Duong, Quang Phuc Model selection and ranking: an AHP approach to forecasts combination. (*see* **89d:00007**)

Gaskarov, D. V. (*with* Goloskokov, K. P.; Shkabardnya, A. M.) Application of mathematical programming in discriminant analysis for the solution of a forecasting problem. **89g:90080**

Ge, Yu An *see* **Liu, Kun Lin; et al., 89h:90063**

Goloskokov, K. P. *see* **Gaskarov, D. V.; et al., 89g:90080**

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Kostenko, Yu. V. *see* **Stepashko, V. S., 89f:90037**

Kotlikoff, Laurence J. (*with* Pakes, Ariél) Looking for the news in the noise. Additional stochastic implications of optimal consumption choice. (French summary) **89h:90062**

Li, Zhong Liang *see* **Liu, Kun Lin; et al., 89h:90063**

Liu, Kun Lin (*with* Li, Zhong Liang; Ge, Yu An) A discrete linear control model and its application to economic forecasting. (Chinese. English summary) **89h:90063**

Milanese, M. (*with* Tempo, R.; Vicino, A.) Optimal error predictors for economic models. **89d:90068**

Muellbauer, John Habits, rationality and myopia in the life cycle consumption function. (French summary) **89h:90064**

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Pakes, Ariél *see* **Kotlikoff, Laurence J., 89h:90062**

Shkabardnya, A. M. *see* **Gaskarov, D. V.; et al., 89g:90080**

Stepashko, V. S. (*with* Kostenko, Yu. V.) A GMDH algorithm for two-level modeling of multidimensional cyclic processes. **89f:90037**

Tempo, R. *see* **Milanese, M.; et al., 89d:90068**

Tokarev, V. V. *see* **Volkov, Yu. N., 89h:90065**

Vicino, A. *see* **Milanese, M.; et al., 89d:90068**

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Arbia, Giuseppe Problems in the estimation of the spatial autocorrelation function arising from the form of the weights matrix. (*see* **89e:90072**)

Bolstad, William M. Estimation in the multiprocess dynamic generalized linear model. (Not in MR)

Cao, Hong Xing *see* **Yin, Xiao Rong, 89m:60206**

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Havenner, Arthur *see* **Cerchi, Marlene**, (**89j:62004**)

Jeon, T. J. (*with* Park, S. J.) Multiple time series model identification using concatenated sample cross-correlations. **89j:62124**

Kozák, Josef Application of Demidenko's approach to the solution of the prediction problem. (Czech summary) **89g:62089**

Lohmander, P. Pulse extraction under risk and a numerical forestry application. **89g:90082**

Lütkepohl, Helmut ★ Prognose aggregierter Zeitreihen. (German) [Prognosis of aggregate time series] **89d:62092**

Mees, A. I. *see* **Albano, A. M.; et al., 89h:58108**

Muench, J. *see* **Albano, A. M.; et al., 89h:58108**

Park, S. J. *see* **Jeon, T. J., 89j:62124**

Pratt, John W. (*with* Schlaifer, Robert) On the interpretation and observation of laws. **89j:62151**

Rapp, P. E. *see* **Albano, A. M.; et al., 89h:58108**

Schlaifer, Robert *see* **Pratt, John W., 89j:62151**

van Schuppen, J. H. Stochastic realization problems motivated by econometric modeling. **89c:93067**

Schwartz, C. *see* **Albano, A. M.; et al., 89h:58108**

Yin, Xiao Rong (*with* Cao, Hong Xing) Multidimensional fuzzy Markov process and its application to the study of climate impact on economics. (Chinese summary) **89m:60206**

90A30 Applications to problems of human society (air pollution, etc.)

Ågren, G. I. Models for forestry. (*see* **89d:90076**)

Allard, Jacques (*with* Errico, Darrel; Reed, William J.) Irreversible investment and optimal forest exploitation. (Not in MR)

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(**Bashalkhanov, I. A.**) *see* **Brusilovskiĭ, P. M.; et al., 89d:90069**

Bather, John *see* **Benkherouf, L., 89e:90068**

Baturin, V. A.) *see* **Brusilovskiĭ, P. M.; et al., 89d:90069**
Benkherouf, L. (*with* Bather, John) Oil exploration: sequential decisions in the face of uncertainty. **89e:90068**
Bogardi, I. Water resources models. (*see* **89d:90076**)
Bolton, Roger *see* **Lakshmanan, T. R.**, (**89m:90047**)
Braat, L. C. (*with* van Lierop, W. F. J.) Environment, policy, and modeling. (*see* **89d:90076**)
— (*with* van Lierop, W. F. J.) Integrated economic-ecological modeling. (*see* **89d:90076**)
— (*with* van Lierop, W. F. J.) Evaluation. (*see* **89d:90076**)
— *see also* **Economic-ecological modeling, 89d:90076**
Brdyś, M. *see* **Coulbeck, B.; et al.**, (Not in MR)
Brusilovskiĭ, P. M. (*with* Gurman, V. I.; Drozdovskiĭ, È. E.) ★ Приложение математических моделей к анализу эколого-экономических систем. (Russian) [Application of mathematical models to the analysis of ecological-economic systems] **89d:90069**
Cave, Jonathan Long-term competition in a dynamic game: the cold fish war. **89d:90070**
Charles, Anthony T. In-season fishery management: a Bayesian model. **89j:90075**
Clark, C. W. Fisheries as renewable resources. (*see* **89d:90076**)
Clark, W. A. V. (*with* van Lierop, W. F. J.) Residential mobility and household location modelling. (*see* **89m:90047**)
Cooke, Justin *see* **Ludwig, D.; et al., 89c:90045**
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Cromer, Thomas L. Harvesting in a seasonal environment. **89d:90071**
Derzko, N. A. *see* **Seidman, Thomas I.; et al., 89b:90057**
Drozdovskiĭ, È. E. *see* **Brusilovskiĭ, P. M.; et al., 89d:90069**
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Gal-Or, Esther The informational advantages or disadvantages of horizontal mergers. (Not in MR)
Garnaev, A. Yu. *see* **Sedykh, L. G., 89b:90056**
Gaul, Wolfgang Zum Einsatz von Datenanalysemethoden in der Marktforschung. [The application of data analysis methods in market research] (*see* **89j:90002**)
Gerking, Shelby *see* **Isserman, Andrew; et al.**, (**89m:90047**)
Granberg, A. G. (*with* Suspitsyn, S. A.) ★ Введение в системное моделирование народного хозяйства. (Russian) [Introduction to systems modeling of a national economy] **89g:90081**
(Griffith, Daniel A.) *see* **Transformations through space and time, 89e:90072**
Gurman, V. I. *see* **Brusilovskiĭ, P. M.; et al., 89d:90069**
Gusev, A. A. (*with* Varlamova, O. S.) Dynamic aspects of an economic optimum for the quality of the environment. (Russian) (Not in MR)
(Haining, Robert) *see* **Transformations through space and time, 89e:90072**
Hanson, Floyd (*with* Ryan, Dennis) Optimal harvesting with density dependent random effects. **89d:90072**
Harnos, Z. Agricultural models. (*see* **89d:90076**)
Hartl, Richard F. Comment on: "The control of environmental pollution and optimal investment and employment decisions" [Optimal Control Appl. Methods **8** (1987), no. 1, 21–36; MR 87k:90080] by W. T. Lin. **89h:90067**
Heaps, Terry (*with* Helliwell, John F.) The taxation of natural resources. (*see* **89m:90002a**)
Helliwell, John F. *see* **Heaps, Terry**, (**89m:90002a**)
Hellwig, Klaus Die Erhaltung der volkswirtschaftlichen Leistungsfähigkeit. [The preservation of the productivity of the national economy] **89m:90049**
Huang, Xiao Yuan An optimal fishing strategy in fishery production. (Chinese) (Not in MR)
Ikeda, Saburo Economic-ecological models in regional total systems. (*see* **89d:90076**)
Isserman, Andrew (*with* Taylor, Carol; Gerking, Shelby; Schubert, Uwe) Regional labor market analysis. (*see* **89m:90047**)
Kanaroglou, P. S. (*with* Papageorgiou, Y. Y.) Disequilibrium in the Canadian regional system: preliminary evidence, 1961–1983. (*see* **89e:90072**)
Kogelschatz, Hartmut Zur Preisentwicklung erschöpfbarer Ressourcen. [On the price development of exhaustible resources] (*see* **89j:90002**)
Krautkraemer, Jeffrey A. The rate of discount and the preservation of natural environments. **89d:90073**
Krelle, Wilhelm Structural change induced by foreign trade. What are the advantages for the country? (*see* **89j:90002**)
(Kurzhanskiĭ, A. B.) *see* **Lohmander, P., 89d:90074**
Lakshmanan, T. R. (*with* Bolton, Roger) Regional energy and environmental analysis. (*see* **89m:90047**)
Lapa, V. G. Prediction of nonstationary random processes by adaptive combined methods. **89m:90050**
Lasserre, Pierre Dynamic duality in resource economics: theory and empirical usefulness. **89f:90038**
van Lierop, W. F. J. *see* **Clark, W. A. V.**, (**89m:90047**); **Braat, L. C.**, (**89d:90076**); *and* **Economic-ecological modeling, 89d:90076**
(Lin, Winston T.) *see* **Forster, Bruce A., 89h:90066** *and* **Hartl, Richard F., 89h:90067**
Lohmander, P. Continuous extraction under risk. **89d:90074**
— Pulse extraction under risk and a numerical forestry application. **89g:90082**
Loucks, D. P. Water quality—economic modeling. (*see* **89d:90076**)
Ludwig, D. (*with* Walters, C. J.; Cooke, Justin) Comparison of two models and two estimation methods for catch and effort data. **89c:90045**
Mace, P. *see* **White, G. N., III, 89c:90046**
Malecki, E. J. (*with* Varaiya, P.) Innovation and changes in regional structure. (*see* **89m:90047**)
McCallum, H. I. Pulse fishing may be superior to selective fishing. **89f:90039**
Mendoza, Guillermo A. Determination of efficient range of target levels in multiple objective planning. **89j:90076**
Mills, Edwin S. *see* **Nijkamp, Peter**, (**89m:90047**)
Nijkamp, Peter (*with* Mills, Edwin S.) Advances in regional economics. (*see* **89m:90047**)
— Economic modeling: shortcomings and perspectives. (*see* **89d:90076**)
— (*with* Reggiani, Aura) Entropy, spatial interaction models and discrete choice analysis: static and dynamic analogies. **89e:90069**
Odum, H. T. Models for national, international, and global systems policy. (*see* **89d:90076**)
Olsen, Trond E. (*with* Stensland, Gunnar) Optimal shutdown decisions in resource extraction. **89e:90070**
— Strategic considerations in invention and innovation; the case of natural resources revisited. (Not in MR)
Orr, C. H. *see* **Coulbeck, B.; et al.**, (Not in MR)
Papageorgiou, Y. Y. *see* **Kanaroglou, P. S.**, (**89e:90072**)
Penenko, V. V. ★ Математические модели природоохранного проектирования. (Russian) [Mathematical models for environmental protection planning] (Not in MR)
van der Ploeg, S. W. F. Models for outdoor recreation. (*see* **89d:90076**)
Primak, A. V. Models for comprehensive assessment of total pollution of atmospheric air (survey). (Not in MR)
(Pryazhinskaya, V. G.) *see* **Mathematical modeling in water resources management, 89d:90077**
Qi, Guo An Multistage decision problems in the rational exploitation of ultralean ores. (Chinese) (Not in MR)
Quyen, N. V. The optimal depletion and exploration of a nonrenewable resource. **89j:90077**
Rance, J. P. *see* **Coulbeck, B.; et al.**, (Not in MR)
Rastogi, P. N. Explanation, prediction, problem-solving and decision-making in social systems. **89f:90040**
Reed, William J. Optimal harvesting models in forest management—a survey. **89a:90051**
— *see also* **Allard, Jacques; et al.**, (Not in MR)
Reggiani, Aura *see* **Nijkamp, Peter, 89e:90069**
Richardson, Harry W. (*with* Townroe, Peter M.) Regional policies in developing countries. (*see* **89m:90047**)
Rosen, Harvey S. Housing subsidies: effects on housing decisions, efficiency, and equity. (*see* **89m:90002a**)
Ruckle, William H. Global theories of the linearizing projection with applications. **89m:90051**
Ryan, Dennis *see* **Hanson, Floyd, 89d:90072**
Schubert, Uwe *see* **Isserman, Andrew; et al.**, (**89m:90047**)
Sedykh, L. G. (*with* Garnaev, A. Yu.) Optimal control of the purification of sewage by active silt. (Russian) **89b:90056**
Seidman, Thomas I. (*with* Sethi, Suresh P.; Derzko, N. A.) Dynamics and optimization of a distributed sales-advertising model. **89b:90057**
Sethi, Suresh P. *see* **Seidman, Thomas I.; et al., 89b:90057**
Slivinskas, Algimantas Asymptotic behavior of the optimal trajectories in a model for the control of renewable resources. (Russian. English and Lithuanian summaries) **89e:90071**
Somlyódy, László (*with* Wets, Roger J.-B.) Stochastic optimization models for lake eutrophication management. (Not in MR)
Staley, M. The practice of resource modeling. (*see* **89d:90076**)
Stanfel, L. E. New dynamic programming models of fisheries management. **89k:90044**
Stensland, Gunnar *see* **Olsen, Trond E., 89e:90070**
Suspitsyn, S. A. *see* **Granberg, A. G., 89g:90081**
Taylor, Carol *see* **Isserman, Andrew; et al.**, (**89m:90047**)
Tóth, F. L. Analyzing productivity of multiple resource systems. (*see* **89d:90076**)
Townroe, Peter M. *see* **Richardson, Harry W.**, (**89m:90047**)
Varaiya, P. *see* **Malecki, E. J.**, (**89m:90047**)
Varlamova, O. S. *see* **Gusev, A. A.**, (Not in MR)
Verbon, H. A. A. Explaining pay-as-you-go financed public pension systems. **89i:90026**
Vincent, Thomas L. Renewable resource management. (*see* **89f:90171**)
Walters, C. J. *see* **Ludwig, D.; et al., 89c:90045**
Wets, Roger J.-B. *see* **Somlyódy, László**, (Not in MR)
White, G. N., III (*with* Mace, P.) Models for cooperation and conspiracy in fisheries: changing the rules of the game. **89c:90046**
Wirl, Franz Joint production of substitutable, exhaustible resources, or: is flaring gas rational? **89d:90075**

Items listed otherwise than by author

Application of mathematical models to the analysis of ecological-economic systems *see* **Brusilovskiĭ, P. M.; et al., 89d:90069**
Economic-ecological modeling ★ Economic-ecological modeling. **89d:90076**
Hanstholm ★ Transformations through space and time. **89e:90072**
Mathematical modeling in water resources management ★ Математическое моделирование в управлении водными ресурсами. (Russian) [Mathematical modeling in water resources management] **89d:90077**
NATO Advanced Study Institute:
  Transformations through Space and Time ★ Transformations through space and time. **89e:90072**
Transformations through space and time ★ Transformations through space and time. **89e:90072**

Items with secondary classifications in 90A30

Abrams, Peter The functional responses of adaptive consumers of two resources. **89c:92076**
Amrhein, Carl G. (*with* MacKinnon, Ross D.) Towards a behavioral model of a spatial labor market. (*see* **89e:90072**)
Bennett, Robert J. (*with* Hordijk, Leen) Regional econometric and dynamic models. (*see* **89m:90047**)
Berkowicz, R. *see* **Zlatev, Zahari, 89f:86015**
Brokate, Martin On a certain optimal harvesting problem with continuous age structure. **89d:92051**
Brusilovskiĭ, P. M. (*with* Nasyrov, F. S.) Bayesian decisions in ecological-economic systems. **89j:92062**
Casey, Richard M. (*with* Jameson, Donald A.) Parallel and vector processing in landscape dynamics. **89h:68155**
Castañon, David A. *see* **Luh, Peter B.; et al., 89j:90160**

Chang, Shi Chung *see* **Luh, Peter B.; et al., 89j:90160**

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Corriga, G. (*with* Salimbeni, D.; Sanna, S.; Usai, G.) An optimal control problem in forest management. **89e:92043**

Dockner, Engelbert J. *see* **Neck, Reinhard, 89k:90040**

Ehtamo, H. (*with* Ruusunen, J.; Kaitala, V.; Hämäläinen, R. P.) Solution for a dynamic bargaining problem with an application to resource management. **89j:90292**

Elderkin, Richard *see* **Cooke, Kenneth; et al., 89f:92037**

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Frischmuth, K. (*with* Szyszka, U.) On static calculation of fishing nets. (Russian and Polish summaries) **89i:70009**

Girlin, S. K. Modeling of arising developing systems. (Russian. English summary) **89b:00046**

Gockert, Dieter *see* **Metzler, Wolfgang^{2}, (89d:00007)**

Greenhut, Melvin L. (*with* Norman, George; Hung, Chao-shun) ★ The economics of imperfect competition. **89g:90001**

Grey, D. R. Harvesting under density-dependent mortality and fecundity. **89g:92041**

Griffith, Daniel A. *see* **Huff, James; et al., 89j:92074**

Gurman, V. I. Extensions of differential systems and their applications to the investigation of natural-economic models. (Russian) **89c:90041**

— (*with* Ivanova, L. I.) Models and analysis of ecological-economic systems. (Not in MR)

Hämäläinen, R. P. *see* **Ehtamo, H.; et al., 89j:90292**

Harrison, Terry P. *see* **Chatterjee, Kalyan, 89e:90240**

Hausman, Jerry A. Taxes and labor supply. (*see* **89m:90002a**)

Hirshleifer, Jack The analytics of continuing conflict. (*see* **89e:90218**)

Hordijk, Leen *see* **Bennett, Robert J., (89m:90047)**

Huff, James (*with* Griffith, Daniel A.; Sonis, Michael; Leifer, Lloyd A.; Straussfogel, Debra) Dynamic central place theory: an appraisal and future prospects. **89j:92074**

Hung, Chao-shun *see* **Greenhut, Melvin L.; et al., 89g:90001**

Ito, Takatoshi Implicit contracts and risk aversion. **89e:90025**

Ivanova, L. I. *see* **Gurman, V. I., (Not in MR)**

Jameson, Donald A. *see* **Casey, Richard M., 89h:68155**

Kaitala, V. (*with* Pohjola, M.) Optimal recovery of a shared resource stock: a differential game model with efficient memory equilibria. **89m:90187**

— *see also* **Ehtamo, H.; et al., 89j:90292**

Kaliev, E. Zh. Algorithms for solving the problem of the location of plants for processing of agricultural production without constraints on the volume of the processing. (Russian) **89m:90062**

Kher, Lov Kumar (*with* Sorooshian, Soroosh) A predictive demand model for systems planning, using noisy realization theory. **89j:93129**

Lee, Cho Seng (*with* Leitmann, G.) Continuous feedback guaranteeing uniform ultimate boundedness for uncertain linear delay systems: an application to river pollution control. **89m:65079**

Leifer, Lloyd A. *see* **Huff, James; et al., 89j:92074**

Leitmann, G. *see* **Lee, Cho Seng, 89m:65079**

Lesourne, Jacques L'auto-organisation et le marché. [Self-organization and the market] (*see* **89f:90002**)

Lin, Yi^{3} Can the world be studied in the viewpoint of systems?? (*see* **89d:00007**)

Luh, Peter B. (*with* Miao, Xi-Yi; Chang, Shi Chung; Castañon, David A.) Stochastic task selection and renewable resource allocation. **89j:90160**

MacKinnon, Ross D. *see* **Amrhein, Carl G., (89e:90072)**

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90B10 Flows in networks, deterministic

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Batta, Rajan (*with* Leifer, Lloyd A.) On the accuracy of demand point solutions to the planar, Manhattan metric, p-median problem, with and without barriers to travel. (Not in MR)

— (*with* Ghose, Anjan; Palekar, Udatta S.) Locating facilities on the Manhattan metric with arbitrarily shaped barriers and convex forbidden regions. **89m:90057**

Batten, David F. (*with* Boyce, David E.) Spatial interaction, transportation, and interregional commodity flow models. (*see* **89m:90047**)

Baturina, L. N. (*with* Lepeshinskiĭ, N. A.) Representation of the simple paths of a nondirected graph. (Russian) **89m:90058**

(Baum, Eric) *see* **Wille, L. T.; et al., 89d:90096**

Baybars, İlker (*with* Edahl, Richard H.) A heuristic method for facility planning in telecommunications networks with multiple alternate routes. (Not in MR)

Beasley, J. E. An SST-based algorithm for the Steiner problem in graphs. **89j:90089**

Beckmann, Martin J. (*with* Thisse, Jacques-François) The location of production activities. (*see* **89m:90047**)

Belenova, N. K. Uniform distribution of flow along the sink arcs of a network. (Russian. English summary) **89d:90088**

Belling-Seib, Katharina (*with* Mevert, P.; Müller, Chr.) Network flow problems with one side constraint: a comparison of three solution methods. **89e:90081**

Berman, Oded (*with* Simchi-Levi, David) Minisum location of a travelling salesman on simple networks. **89e:90082**

— (*with* Simchi-Levi, David) Finding the optimal a priori tour and location of a traveling salesman with nonhomogeneous customers. **89b:90073**

— *see also* **Simchi-Levi, David, 89e:90092**

Bernussou, J. *see* **Elsayed, H. M.; et al., 89h:90086**

Bertsekas, Dimitri P. (*with* Tseng, Paul) The RELAX codes for linear minimum cost network flow problems. **89h:90080**

— (*with* Tseng, Paul) Relaxation methods for minimum cost ordinary and generalized network flow problems. **89d:90089**

Bilal, A. Y. *see* **Elsayed, H. M.; et al., 89h:90086**

Bixby, Robert E. (*with* Marcotte, O. M.-C.; Trotter, L. E., Jr.) Packing and covering with integral feasible flows in integral supply-demand networks. **89g:90092**

Blagitko, B. Ya. (*with* Odintsova, V. I.; Rabyk, V. G.) Some features of the optimization of electrical networks in a frequency domain. (Russian. English summary) (Not in MR)

Boals, A. J. (*with* Williams, Kenneth L.) Optimizing subcase solutions for (M, N)-transitivity. (*see* **89d:00007**)

Bondarev, V. M. (*with* Rublinetskiĭ, V. I.; Sigalov, V. L.) Exact solution of the path tracing problem. (Russian. English summary) **89f:90044**

Bookbinder, James H. (*with* Reece, Kathleen E.) Vehicle routing considerations in distribution system design. (Not in MR)

Bornstein, Claudio T. (*with* Rust, R.) Minimizing a sum of staircase functions under linear constraints. **89f:90045**

Boseniuk, T. (*with* Ebeling, Werner) Evolution strategies in complex optimization: the travelling salesman problem. **89k:90050**

Bouchart, F. *see* **Goulter, I. C.**, (**89g:76003b**)

Boyce, David E. *see* **Batten, David F.**, (**89m:90047**)

Brademeyer, B. D. *see* **Safwat, K. N. A.**, (Not in MR)

Buhl, Hans Ulrich Axiomatic considerations in multi-objective location theory. **89i:90028**

Cerdeira, J. Orestes (*with* Coelho, J. Dias) Some theorems on the equivalence of the multiple traveling salesman problem and the traveling salesman problem. (Portuguese) **89g:90093**

Chand, Suresh Decision/forecast horizon results for a single facility dynamic location/relocation problem. **89g:90094**

Chang, Suk-gwon Optimal trade-off among delay, throughput and fairness in flow controlled networks. (*see* **89f:00029**)

Chau, Siu-Cheung (*with* Liestman, Arthur L.) Constructing minimal broadcast networks. **89h:90081**

— (*with* Liestman, Arthur L.) Constructing fault-tolerant minimal broadcast networks. **89h:90082**

Chen, Dao Qing A solution to the Chinese postman problem by the branch and bound method. (Chinese) (Not in MR)

Chen, Reuven Conditional minisum and minimax location-allocation problems in Euclidean space. (Not in MR)

Cheng, Ying (*with* Hwang, F. K.) Diameters of weighted double loop networks. **89k:90051**

Cherkasskiĭ, B. V. An algorithm for the decomposition of a tree into chains of bounded length. (Russian) **89m:90059**

Chrobak, Marek (*with* Poljak, Svatopluk) On common edges in optimal solutions to traveling salesman and other optimization problems. **89h:90083**

Ciurea, E. Two simple versions of dynamic flow algorithms. (Romanian summary) (Not in MR)

Coelho, J. Dias *see* **Cerdeira, J. Orestes, 89g:90093**

Colbourn, Charles J. (*with* Debroni, Bradley M.; Myrvold, Wendy J.) Estimating the coefficients of the reliability polynomial. **89h:90084**

Conley, William Cleland Traveling salesman problem solved with simulation techniques. **89h:90085**

Cooper, Colin *see* **Ahn, Sang; et al., 89c:90048**

Cornuejols, Gerard *see* **Ahn, Sang; et al., 89c:90048**

Cui, Wen-Tian (*with* Fujishige, Satoru) A primal algorithm for the submodular flow problem with minimum-mean cycle selection. (Japanese summary) **89k:90052**

— A network simplex method for the maximum balanced flow problem. (Japanese summary) **89k:90053**

Dax, Achiya An efficient algorithm for solving the rectilinear multifacility location problem. **89i:90029**

Debroni, Bradley M. *see* **Colbourn, Charles J.; et al., 89h:90084**

Deĭneko, V. G. A recursive algorithm for the solution of the traveling salesman problem. (Russian) (*see* **89f:00011**)

Desrosiers, Jacques (*with* Sauvé, Michel; Soumis, François) Lagrangian relaxation methods for solving the minimum fleet size multiple traveling salesman problem with time windows. **89e:90083**

Divoky, James J. *see* **Hung, Ming S., 89j:90093**

Dong, Chun Fei (*with* Liu, Wei Guo) The shortest path problem on a class of variable weighted networks. (Chinese) (Not in MR)

rezner, Zvi Conditional p-center problems. **89m:90060**
ror, M. (*with* Ball, Michael O.; Golden, B.) A computational comparison of algorithms for the inventory routing problem. **89b:90074**
zhabashvili, A. G. *see* **Kutkhashvili, K. V.**, (Not in MR)
beling, Werner *see* **Boseniuk, T., 89k:90050**
dahl, Richard H. *see* **Baybars, İlker**, (Not in MR)
iselt, H. A. (*with* Laporte, Gilbert; Pederzoli, G.) Optimal sizes of facilities on a linear market. (Not in MR)
lsayed, H. M. (*with* Mahmoud, Magdi S.; Bilal, A. Y.; Bernussou, J.) Adaptive alternate-routing in telephone networks: optimal and equilibrium solutions. **89h:90086**
rkut, E. (*with* Francis, R. L.; Lowe, Timothy J.) Locating two facilities on a tree subject to distance constraints. **89f:90046**
edergruen, Awi (*with* Groenevelt, H.) Polymatroidal flow network models with multiple sinks. **89k:90054**
eiring, Bruce R. Some properties of the solution space of the N-city traveling-salesman problem. **89f:90047**
ilali, A. B. (*with* Walker, W. R.) System analysis of an irrigation main canal. (*see* **89g:76003b**)
inke, G. (*with* Ahmed, Shams Uddin) Network flow methods for the asymmetric traveling salesman problem. **89b:90075**
ogel, D. B. An evolutionary approach to the traveling salesman problem. **89j:90090**
ort, J.-C. Solving a combinatorial problem via self-organizing process: an application of the Kohonen algorithm to the traveling salesman problem. **89e:90084**
rancis, R. L. *see* **Erkut, E.; et al., 89f:90046**
rieze, A. M. *see* **Ahn, Sang; et al., 89c:90048**
ujishige, Satoru *see* **Cui, Wen-Tian, 89k:90052**
alil, Zvi (*with* Tardos, Éva) An $O(n^2(m+n\log n)\log n)$ min-cost flow algorithm. **89f:90048**
allo, Giorgio (*with* Pallottino, Stefano) Shortest path algorithms. **89f:90049**
arlauskas, Algis (*with* Koval′, Veronika; Vygovskaya, R.) Investigation and optimization of reliability of transport networks. (*see* **89f:00029**)
avish, Bezalel *see* **Altinkemer, Kemal, 89b:90071**
hose, Anjan *see* **Batta, Rajan; et al., 89m:90057**
olden, B. *see* **Dror, M.; et al., 89b:90074**
oldfarb, Donald (*with* Grigoriadis, Michael D.) A computational comparison of the Dinic and network simplex methods for maximum flow. **89d:90090**
oulter, I. C. (*with* Bouchart, F.) Fuzzy programming applications in water distribution network design. (*see* **89g:76003b**)
reenberg, Harvey J. Diagnosing infeasibility in min-cost network flow problems. I. Dual infeasibility. **89b:90076**
rigoriadis, Michael D. *see* **Goldfarb, Donald, 89d:90090**
roenevelt, H. *see* **Federgruen, Awi, 89k:90054**
uan, Mei Gu The windy postman problem for a class of graphs. (Chinese) (Not in MR)
– *see also* **Lenstra, J. K.; et al., 89j:90098**
uerrero Durán, José Antonio (*with* Puerto Albandoz, Justo) Expected distances along travel directions. (Spanish. English summary) **89f:90050**
urvich, V. A. *see* **Gvishiani, A. D., 89f:90051**
vishiani, A. D. (*with* Gurvich, V. A.) Metric and ultrametric resistance spaces. (Russian) **89f:90051**
ajek, Bruce *see* **Sasaki, Galen, 89k:90060**
an, De Hong *see* **Jiang, Nai Chang**, (Not in MR)
ansen, Pierre (*with* Labbé, Martine) Algorithms for voting and competitive location on a network. **89m:90061**
artvigsen, David B. (*with* Wagner, Donald K.) Recognizing max-flow min-cut path matrices. **89d:90091**
asebe, Takayuki *see* **Kurosawa, Kaoru, 89j:90097**
assin, Refael A computing scheme for network problems with random edge lengths. **89j:90091**
edetniemi, S. T. *see* **Hedetniemi, Sandra M.; et al., 89h:90087**
edetniemi, Sandra M. (*with* Hedetniemi, S. T.; Liestman, Arthur L.) A survey of gossiping and broadcasting in communication networks. **89h:90087**
irabayashi, Ryuichi *see* **Suzuki, Hisatoshi; et al., 89a:90058**
ooker, J. N. Solving nonlinear multiple-facility network location problems. **89j:90092**
uang, Chung Hsing *see* **Ali, Agha Iqbal, 89h:90079**
uang, Mei *see* **Xia, Qing; et al., 89i:90033**
ung, Ming S. (*with* Divoky, James J.) A computational study of efficient shortest path algorithms. **89j:90093**
wang, F. K. Networks with shortest paths. (Chinese) (Not in MR)
– *see also* **Cheng, Ying, 89k:90051**
drissi, H. (*with* Loridan, P.; Michelot, C.) Approximation of solutions for location problems. **89e:90085**
shii, Hiroaki^1 *see* **Matsutomi, Tatsuo; et al., 89c:90052**
toh, Masaki *see* **Shibasaki, Masashi, 89i:90032**
toh, Yutaka *see* **Takeuchi, Masashi, 89j:90106**
anchev, D. T. Determination of the k most essential nodes in a network with parametric node and arc transmitting capacities. (Bulgarian. English and Russian summaries) **89g:90095**
acobsen, Søren B. The rearrangement process in a two-stage broadcast switching network. **89g:90096**
eromin, Bernd (*with* Körner, F.) Some remarks on two degrees of asymmetry in the traveling salesman problem. (French summary) **89j:90094**
– Untersuchungen zur Anwendbarkeit von heuristischen Verfahren beim traveling salesman problem und zur Verschärfung der Verhaltensschranken. [Investigations on the applicability of heuristic methods on the traveling salesman problem and on the sharpening of performance bounds] **89j:90095**
eworrek, Torsten (*with* Schulz, Günther) Zur Lösung des Briefträgerproblems auf gemischten Graphen. [On the solution of the Chinese postman problem for mixed graphs] **89j:90096**
iang, Nai Chang (*with* Han, De Hong) Memory condensation of the Jacobi matrix of pipe network equations and optimization of node symbols in pipe network graphs. (Chinese. English summary) (Not in MR)
Jones, E. E. The 3-vertex single source Weber location problem. **89g:90097**
Jonker, Roy (*with* Volgenant, Ton) An improved transformation of the symmetric multiple traveling salesman problem. **89b:90077**
Kaji, Ikuo *see* **Yamaguchi, Tadashi, 89j:90109**
Kaliev, E. Zh. Algorithms for solving the problem of the location of plants for processing of agricultural production without constraints on the volume of the processing. (Russian) **89m:90062**
Karloff, Howard J. How long can a Euclidean traveling salesman tour be? **89m:90063**
Karzanov, A. V. Half-integral five-terminus flows. **89d:90092**
Kataoka, Seiji (*with* Morito, Susumu) An algorithm for single constraint maximum collection problem. (Japanese summary) **89k:90055**
Kennington, Jeff *see* **Ali, Agha Iqbal; et al., 89e:90078**
Khukhashvili, N. M. A theorem on the correct decomposition of the traveling salesman problem with free boundary conditions. (Russian) **89m:90064**
Kirzhner, V. M. *see* **Vaĭner, V. G.; et al., 89j:90107** *and* **89k:90061**
Körner, F. *see* **Jeromin, Bernd, 89j:90094**
Korst, Jan H. M. *see* **Aarts, E.; et al., 89d:90086**
Kosorukov, O. A. Application of methods of decomposition to problems of synthesizing communication networks when there are undetermined factors. **89h:90088**
Koval′, Veronika *see* **Garlauskas, Algis; et al.**, (**89f:00029**)
Krasilovets, L. V. An algorithm for topological synthesis of communication networks. **89m:90065**
Kuh, Ernest S. *see* **Xiong, Xiao-Ming, 89m:90066**
Kurosawa, Kaoru (*with* Hasebe, Takayuki) Consideration on a nonlinear multicommodity flow problem in a packet switching network. **89j:90097**
Kutkhashvili, K. V. (*with* Dzhabashvili, A. G.) A method for the optimization of a net diagram. (Russian. English summary) (Not in MR)
van Laarhoven, P. J. M. *see* **Aarts, E.; et al., 89d:90086**
Labbé, Martine *see* **Hansen, Pierre, 89m:90061**
Lai, Ten Hwang (*with* Sprague, Alan) On the routability of a convex grid. **89e:90086**
Lalanne, Jean-Christophe Caractérisation de la charge des arêtes du graphe support d'un réseau nodal de commutation temporelle asynchrone. (English summary) [Characterization of the load of the vertices of the support graph of a nodal network for asynchronous time division switching] **89e:90087**
Laporte, Gilbert (*with* Nobert, Yves; Taillefer, Serge) A branch-and-bound algorithm for the asymmetrical distance-constrained vehicle routing problem. (French summary) **89a:90055**
— (*with* Nobert, Yves; Taillefer, Serge) Solving a family of multi-depot vehicle routing and location-routing problems. **89e:90088**
— *see also* **Eiselt, H. A.; et al.**, (Not in MR)
Lee, Der Tsai *see* **de Rezende, P. J.; et al., 89k:90058**
Leifer, Lloyd A. *see* **Batta, Rajan**, (Not in MR)
Lenstra, J. K. (*with* Rinnooy Kan, A. H. G.; Guan, Mei Gu) On the travelling salesman problem. (Chinese) **89j:90098**
Lepeshinskiĭ, N. A. *see* **Baturina, L. N., 89m:90058**
Levchenkov, V. S. Dynamic justification of the entropy approach for a class of communications systems. (Russian. English summary) **89f:90052**
Liestman, Arthur L. *see* **Richards, Dana S., 89f:90055; Chau, Siu-Cheung, 89h:90081; 89h:90082** *and* **Hedetniemi, Sandra M.; et al., 89h:90087**
Lin, Ya Xiong (*with* Zhao, Yong Chang) A new algorithm for the directed Chinese postman problem. **89j:90099**
Lin, Yi Xun Discrete location problems. (Chinese) (Not in MR)
Lirov, Yuval Kth shortest collision-free path planning. (Not in MR)
Liu, Wei Guo *see* **Dong, Chun Fei**, (Not in MR)
Loridan, P. *see* **Idrissi, H.; et al., 89e:90085**
Lovetskiĭ, S. E. (*with* Melamed, I. I.) Static flows in networks. (Russian. English summary) **89c:90049**
— (*with* Melamed, I. I.) Dynamic flows in networks. (Russian. English summary) **89c:90050**
Lowe, Timothy J. *see* **Erkut, E.; et al., 89f:90046**
Lozowicka Stupnicka, Teresa *see* **Stupnicki, Stefan**, (**89a:93003**)
Mahmoud, Magdi S. *see* **Elsayed, H. M.; et al., 89h:90086**
Maimon, Oded An algorithm for the Lorenz measure in locational decisions on trees. **89j:90100**
Maley, F. Miller Toward a mathematical theory of single-layer wire routing. **89i:90030**
Marcotte, O. M.-C. *see* **Bixby, Robert E.; et al., 89g:90092**
Martinich, Joseph S. A vertex-closing approach to the p-center problem. **89c:90051**
Matsutomi, Tatsuo (*with* Ishii, Hiroaki^1; Nishida, Toshio) Chance constrained round trip location problem. **89c:90052**
Mayr, R. *see* **Papageorgiou, M., 89e:90089**
Meinel, Christoph A complexity theoretic parade of network-flow-problems. **89k:90056**
Meir, A. A geometric problem involving the nearest neighbour algorithm. **89a:90056**
Melachrinoudis, Emanuel An efficient computational procedure for the rectilinear MAXIMIN location problem. (Not in MR)
Melamed, I. I. *see* **Lovetskiĭ, S. E., 89c:90049** *and* **89c:90050**
Mevert, P. *see* **Belling-Seib, Katharina; et al., 89e:90081**
Michalski, Miłosz On a class of polynomially solvable travelling salesman problems. **89h:90089**
Michelot, C. *see* **Idrissi, H.; et al., 89e:90085**
Moon, I. Douglas On eliminating vertices from a tree. (Not in MR)
Morito, Susumu *see* **Kataoka, Seiji, 89k:90055**
Müller, Chr. *see* **Belling-Seib, Katharina; et al., 89e:90081**
Murota, Kazuo Note on the universal bases of a pair of polymatroids. (Japanese summary) **89k:90057**
Myrvold, Wendy J. *see* **Colbourn, Charles J.; et al., 89h:90084**
Nguyen, Sang (*with* Pallottino, Stefano) Equilibrium traffic assignment for large scale transit networks. **89g:90098**
Nishida, Toshio *see* **Matsutomi, Tatsuo; et al., 89c:90052**
Nishizeki, T. *see* **Suzuki, Hitoshi; et al., 89h:90091**

Nobert, Yves *see* **Laporte, Gilbert; et al., 89a:90055** *and* **89e:90088**
Odintsova, V. I. *see* **Blagitko, B. Ya.; et al.**, (Not in MR)
Okamura, Haruko Multicommodity flows in graphs. II. **89b:90078**
Padberg, Manfred (*with* Rinaldi, Giovanni) Branch-and-cut approach to a variant of the traveling salesman problem. **89j:90101**
— (*with* Sung, Ting-Yi) A polynomial-time solution to Papadimitriou and Steiglitz's "traps". **89f:90053**
Palekar, Udatta S. *see* **Batta, Rajan; et al., 89m:90057**
Pallottino, Stefano *see* **Gallo, Giorgio, 89f:90049** *and* **Nguyen, Sang, 89g:90098**
Papageorgiou, M. (*with* Mayr, R.) Comparison of direct optimization algorithms for dynamic network flow control. **89e:90089**
Parulava, B. V. Development of an algorithm for solving an optimal location problem. (Russian) (Not in MR)
Pawley, G. S. *see* **Wilson, Gregory Vance, 89b:90080**
Pearn, Wen Lea New lower bounds for the capacitated arc routing problem. **89e:90090**
Pederzoli, G. *see* **Eiselt, H. A.; et al.**, (Not in MR)
Plesník, Ján Bad examples of the metric traveling salesman problem for the 2-change heuristic. (Russian and Slovak summaries) **89c:90053**
Pochet, Yves (*with* Wolsey, Laurence A.) Lot-size models with backlogging: strong reformulations and cutting planes. **89d:90093**
Poljak, Svatopluk *see* **Chrobak, Marek, 89h:90083**
Provan, J. Scott Convexity and the Steiner tree problem. **89f:90054**
Puerto Albandoz, Justo *see* **Guerrero Durán, José Antonio, 89f:90050**
Rabyk, V. G. *see* **Blagitko, B. Ya.; et al.**, (Not in MR)
Ramachandran, Vijaya The complexity of minimum cut and maximum flow problems in an acyclic network. **89g:90099**
Rana, Krishan (*with* Vickson, R. G.) A model and solution algorithm for optimal routing of a time-chartered container ship. **89d:90094**
Rao, J. R. (*with* Saraswati, K.) Facility location problem on a network under multiple criteria—fuzzy set theoretic approach. **89j:90102**
Reece, Kathleen E. *see* **Bookbinder, James H.**, (Not in MR)
de Rezende, P. J. (*with* Lee, Der Tsai; Wu, Y. F.) Rectilinear shortest paths in the presence of rectangular barriers. **89k:90058**
Richards, Dana S. (*with* Liestman, Arthur L.) Generalizations of broadcasting and gossiping. **89f:90055**
Rinaldi, Giovanni *see* **Padberg, Manfred, 89j:90101**
Rinnooy Kan, A. H. G. *see* **Lenstra, J. K.; et al., 89j:90098**
Rogers, Everett M. Progress, problems and prospects for network research: investigating relationships in the age of electronic communication technologies. **89a:90057**
Rublinetskii, V. I. *see* **Bondarev, V. M.; et al., 89f:90044**
Ruhe, G. Parametric maximal flows in generalized networks—complexity and algorithms. **89e:90091**
— Complexity results for multicriterial and parametric network flows using a pathological graph of Zadeh. (German summary) **89k:90059**
Rust, R. *see* **Bornstein, Claudio T., 89f:90045**
Safwat, K. N. A. (*with* Brademeyer, B. D.) Proof of global convergence of an efficient algorithm for predicting trip generation, trip distribution, modal split and traffic assignment simultaneously on large-scale networks. (Not in MR)
Saito, Nobuji *see* **Suzuki, Hitoshi; et al., 89h:90091**
Sapko, A. V. Solution of the traveling salesman problem of large dimension. (Russian) **89g:90100**
— An algorithm for the solution of traveling salesman problems on a multiprocessor computer complex. (Russian) **89j:90103**
Saraswati, K. *see* **Rao, J. R., 89j:90102**
Sasaki, Galen (*with* Hajek, Bruce) Optimal dynamic routing in single commodity networks by iterative methods. **89k:90060**
Saunders, Patsy B. *see* **Witzgall, Christoph J., (89f:00021)**
Sauvé, Michel *see* **Desrosiers, Jacques; et al., 89e:90083**
Schulz, Günther *see* **Jeworrek, Torsten, 89j:90096**
Sengoku, Masakazu (*with* Shinoda, Shoji) A function measuring the centrality (or mediality) of an edge in an undirected network with edge capacity. **89i:90031**
Sgurev, Vasil S. A network flow with nonlinear capacity constraints. (Russian summary) **89j:90104**
Shamsiev, R. N. *see* **Sukhov, Yu. M., 89f:90056**
Sharipova, M. M. The optimal topology of a network. (Russian) **89b:90079**
Shetty, Bala *see* **Ali, Agha Iqbal; et al., 89e:90078**
Shibasaki, Masashi (*with* Itoh, Masaki) Hybrid distance and hybrid capacity on networks. **89i:90032**
Shinoda, Shoji *see* **Sengoku, Masakazu, 89i:90031**
Shipunov, A. V. *see* **Zhozhikashvili, V. A.; et al., 89j:90112**
Sibirskiĭ, V. K. Investigation of the Weber problem and of the stability of its solution. (Russian) **89d:90095**
Sigal, I. Kh. ★ Алгоритмы и диалоговая система для решения задачи коммивояжера большой размерности на плоскости. (Russian) [Algorithms and an interactive system for the solution of the traveling salesman problem of large dimension on the plane] **89g:90101**
— An algorithm for the approximate solution of the traveling salesman problem of large dimension on a plane. (Russian) **89h:90090**
Sigalov, V. L. *see* **Bondarev, V. M.; et al., 89f:90044**
Simchi-Levi, David (*with* Berman, Oded) A heuristic algorithm for the traveling salesman location problem on networks. **89e:90092**
— *see also* **Berman, Oded, 89b:90073** *and* **89e:90082**
Soumis, François *see* **Desrosiers, Jacques; et al., 89e:90083**
Sprague, Alan *see* **Lai, Ten Hwang, 89e:90086**
Stein, D. L. *see* **Wille, L. T.; et al., 89d:90096**
Steinberg, Richard (*with* Stone, Richard E.) The prevalence of paradoxes in transportation equilibrium problems. **89j:90105**
Stone, Richard E. *see* **Steinberg, Richard, 89j:90105**
Stupnicki, Stefan (*with* Łozowicka Stupnicka, Teresa) Optimization of size and location of service system units. (*see* **89a:93003**)
Sukhov, Yu. M. (*with* Shamsiev, R. N.) Hybrid switching networks on an infinite one-dimensional lattice. (Russian) **89f:90056**
Sung, Ting-Yi *see* **Padberg, Manfred, 89f:90053**
Suzuki, Hisatoshi (*with* Hirabayashi, Ryuichi; Tsuji, Masato) The water salesman problem. (Japanese. English summary) **89a:90058**
Suzuki, Hitoshi (*with* Nishizeki, T.; Saito, Nobuji) An algorithm for multicommodity flows in a class of planar networks. **89h:90091**
Taillefer, Serge *see* **Laporte, Gilbert; et al., 89a:90055** *and* **89e:90088**
Takeuchi, Masashi (*with* Itoh, Yutaka) Centrality functions defined by minimum cuts in a network. **89j:90106**
Tardos, Éva *see* **Galil, Zvi, 89f:90048**
Thisse, Jacques-François *see* **Beckmann, Martin J., (89m:90047)**
Topkis, Donald M. A k shortest path algorithm for adaptive routing in communications networks. **89f:90057**
Trotter, L. E., Jr. *see* **Bixby, Robert E.; et al., 89g:90092**
Tseng, Paul *see* **Bertsekas, Dimitri P., 89d:90089** *and* **89h:90080**
Tsuji, Masato *see* **Suzuki, Hisatoshi; et al., 89a:90058**
Tverdokhlebov, A. S. *see* **Zhozhikashvili, V. A.; et al., 89j:90112**
Vaĭner, V. G. (*with* Zaĭtsev, I. D.; Kirzhner, V. M.) A dynamic problem of the linking of a communication network. (Russian. English summary) **89j:90107**
— (*with* Zaĭtsev, I. D.; Kirzhner, V. M.) An estimate for the optimum of an objective functional in the problem of linking a communications network. (Russian. English summary) **89k:90061**
Vasyanin, V. A. Comparative efficiency of algorithms for the optimization of packings in multiflow networks. (Russian) **89f:90058**
Vickson, R. G. *see* **Rana, Krishan, 89d:90094**
Volgenant, Ton *see* **Jonker, Roy, 89b:90077**
Vygovskaya, R. *see* **Garlauskas, Algis; et al., (89f:00029)**
Wagner, Donald K. *see* **Hartvigsen, David B., 89d:90091**
Walker, W. R. *see* **Filali, A. B., (89g:76003b)**
Walters, G. A. Optimal design of pipe networks: a review. (*see* **89g:76003b**)
Wang, Shi Ying *see* **Xia, Qing; et al., 89i:90033**
Werner, Frank On the quasi-convexity of a special job shop scheduling problem. **89j:90108**
Wille, L. T. (*with* Baskaran, G.; Stein, D. L.) Comments on: "Intractable computations without local minima" [Phys. Rev. Lett. 57 (1986), no. 21, 2764–2767; MR 87j:90054] by E. B. Baum. **89d:90096**
Williams, Kenneth L. *see* **Boals, A. J., (89d:00007)**
Wilson, Gregory Vance (*with* Pawley, G. S.) On the stability of the travelling salesman problem algorithm of Hopfield and Tank. **89b:90080**
Witzgall, Christoph J. (*with* Saunders, Patsy B.) Electronic mail and the "locator's" dilemma. (*see* **89f:00021**)
Wolsey, Laurence A. *see* **Pochet, Yves, 89d:90093**
Wu, Y. F. *see* **de Rezende, P. J.; et al., 89k:90058**
Xia, Qing (*with* Xiang, Nian De; Wang, Shi Ying; Zhang, Bo Ming; Huang, Mei) A new algorithm for nonlinear minimum cost network flow and its application. (Chinese. English summary) **89i:90033**
Xiang, Nian De *see* **Xia, Qing; et al., 89i:90033**
Xiao, Dong Optimal design of pipe network system. (Not in MR)
Xiong, Xiao-Ming (*with* Kuh, Ernest S.) A unified approach to the via minimization problem. **89m:90066**
Yamada, Takeo A network flow algorithm to find an elementary i/o matching. **89d:90097**
Yamaguchi, Tadashi (*with* Kaji, Ikuo) Some location problems on grid graphs. **89j:90109**
Yang, Cheng En The worst case analysis of the largest angle method for the travelling salesman problem—a note. **89j:90110**
Yang, Qin *see* **Zhang, Yun Zhen, 89j:90111**
Zaĭtsev, I. D. *see* **Vaĭner, V. G.; et al., 89j:90107** *and* **89k:90061**
Zambitskiĭ, D. K. (*with* Zambitskiĭ, M. K.) An algorithm for the optimal arrangement of medians on a tree with vertex probability weights. (Russian) **89c:90054**
Zambitskiĭ, M. K. *see* **Zambitskiĭ, D. K., 89c:90054**
Zhang, Bo Ming *see* **Xia, Qing; et al., 89i:90033**
Zhang, Tian Ci A brief survey of plane location problems. (Chinese) **89h:90092**
Zhang, Yun Chou The problem of the most economical way of gathering or dispersing goods. (Chinese. English summary) (Not in MR)
Zhang, Yun Zhen (*with* Yang, Qin) A shortest path algorithm for a system of dispatching goods by truck. (Chinese. English summary) **89j:90111**
Zhao, Yong Chang *see* **Lin, Ya Xiong, 89j:90099**
Zhozhikashvili, V. A. (*with* Tverdokhlebov, A. S.; Shipunov, A. V.) An algorithm for the solution of an optimization problem for bottlenecks in systems of message processing and transmission. **89j:90112**

Items with secondary classifications in 90B10

Adorf, H.-M. (*with* Murtagh, F.) Clustering based on neural network processing. **89m:92009**
Ae, Tadashi *see* **Matsumoto, Hiroshi; et al.**, (Not in MR)
Ahlswede, Rudolf (*with* Wegener, Ingo) ★ Search problems. **89c:68019**
Akhmetzyanov, A. V. *see* **Meerov, M. V.; et al.**, (Not in MR)
Alt, Helmut (*with* Welzl, Emo) Visibility graphs and obstacle-avoiding shortest paths. (German summary) **89k:68141**
Alyushkevich, V. B. *see* **Sot·skov, Yu. N., 89c:05048**
Amahashi, Atsushi On factors with all degrees odd. **89e:05152**
Amin, A. T. (*with* Siegrist, K. T.; Slater, P. J.) Pair-connected reliability of a tree and its distance degree sequences. **89h:68118**
Anderson, Richard John (*with* Mayr, Ernst) Parallelism and greedy algorithms. **89j:68057**
— A parallel algorithm for the maximal path problem. **89e:68042**
Awerbuch, B. (*with* Israeli, A.; Shiloach, Y.) Finding Euler circuits in logarithmic parallel time. **89f:68015**
Azmi, Zaki Ahmed (*with* El Din Younis, Mohamed Alaa) The application of fuzzy matrices and digraphs in network analysis. **89f:05085**
Bajaj, Chanderjit The algebraic degree of geometric optimization problems. **89c:90110**
Ball, Michael O. *see* **Ramesh, Aparna; et al., 89c:68012**

Baltsan, Avikam (*with* Sharir, M.) On the shortest paths between two convex polyhedra. **89g:68065**

Banerjee, Prithviraj *see* **West, Douglas B., 89h:68122**

Barnes, J. Wesley *see* **Jensen, Paul A., 89a:90152**

Basangova, E. O. A transportation problem on partially oriented graphs. (Russian) **89k:90104**

Ben-Ayed, Omar (*with* Boyce, David E.; Blair, Charles E., III) A general bilevel linear programming formulation of the network design problem. (Not in MR)

Bern, Marshall W. Two probabilistic results on rectilinear Steiner trees. **89c:68080**

Bertsekas, Dimitri P. (*with* Hosein, Patrick A.; Tseng, Paul) Relaxation methods for network flow problems with convex arc costs. **89h:90243**

— (*with* Eckstein, Jonathan) Dual coordinate step methods for linear network flow problems. **89k:90164**

Bhargava, Bharat (*with* Ng, Peter Lei) A dynamic majority determination algorithm for reconfiguration of network partitions. (Not in MR)

Blair, Charles E., III *see* **Ben-Ayed, Omar; et al.**, (Not in MR)

Bol'shakov, S. Yu. *see* **Davydov, È. G., 89a:90067**

Boronin, A. B. (*with* Pershin, O. Yu.) Dynamic location problems where the components of the graph of connections have a radial structure. **89h:90244**

Boyce, David E. *see* **Ben-Ayed, Omar; et al.**, (Not in MR)

Brandstädt, Andreas The computational complexity of feedback vertex set, Hamiltonian circuit, dominating set, Steiner tree, and bandwidth on special perfect graphs. (German and Russian summaries) **89b:68053**

Broder, Andrei (*with* Dolev, Danny; Fischer, Michael) Efficient fault-tolerant routings in networks. **89f:68007**

Brunacci, Francesco A. DB2 and DB2A: two useful tools for constructing Hamiltonian circuits. **89e:05136**

Burkard, Rainer E. Assignment problems: recent solution methods and applications. **89d:90146**

Caccetta, L. (*with* Giannini, L. M.) An application of discrete mathematics in the design of an open pit mine. **89i:05125**

Calamai, Paul H. (*with* Conn, A. R.) A projected Newton method for l_p norm location problems. **89d:90230**

Camerini, P. M. (*with* Galbiati, G.; Maffioli, Francesco) Algorithms for finding optimum trees: description, use and evaluation. **89e:90206**

Chaiken, Seth Extremal length and width of blocking polyhedra, Kirchhoff spaces and multiport networks. **89k:90165**

(Chandrasekaran, R.) *see* **Murty, Katta G., 89g:90227**

Chang, M. D. (*with* Engquist, M.; Finkel, Rafael A.; Meyer, R. R.) A parallel algorithm for generalized networks. **89g:90225**

Cherepakhin, A. V. *see* **Meerov, M. V.; et al.**, (Not in MR)

Cheriyan, J. (*with* Maheshwari, Sachindra Nath) Finding nonseparating induced cycles and independent spanning trees in 3-connected graphs. **89k:05055**

Chew, Kim Lin *see* **Tung, Chi Tung, 89j:90245**

Chiba, N. *see* **Nishizeki, T., 89f:05068**

Chin, Wei-Pang (*with* Ntafos, Simeon) Optimum watchman routes. **89f:68063**

Choffrut, Christian An introduction to automata network theory. (*see* **89c:68078**)

Cieslik, D. The Fermat-Steiner-Weber-problem in Minkowski spaces. **89f:90114**

Colbourn, Charles J. *see* **Ramesh, Aparna; et al., 89c:68012**

Comeau, Marc A. *see* **Thulasiraman, K., 89b:05095**

Conn, A. R. *see* **Calamai, Paul H., 89d:90230**

Cunha, Wagner Chiepa *see* **Matsumoto, Hiroshi; et al.**, (Not in MR)

Dagan, Ido (*with* Golumbic, Martin Charles; Pinter, Ron Yair) Trapezoid graphs and their coloring. **89i:05115**

Damian, Sergiu *see* **Moldovan, Grigor**, (Not in MR)

Davydov, È. G. (*with* Bol'shakov, S. Yu.) ★ Теоретико-групповые методы агрегирования в сетевых задачах. (Russian) [Group-theoretic methods for aggregation in network problems] **89a:90067**

Dearing, P. M. (*with* Shier, D. R.; Warner, Daniel D.) Maximal chordal subgraphs. **89i:05176**

Desrochers, Martin (*with* Soumis, François) A reoptimization algorithm for the shortest path problem with time windows. **89b:90102**

Dolev, Danny *see* **Broder, Andrei; et al., 89f:68007**

Dress, Andreas (*with* Havel, Timothy F.) Shortest-path problems and molecular conformation. **89e:92063**

Dupont, Peter *see* **Koebe, Manfred, 89m:68108**

Durier, R. Meilleure approximation en norme vectorielle et théorie de la localisation. (English summary) [Best approximation in a vectorial norm and localization theory] **89b:90206**

Eckstein, Jonathan *see* **Bertsekas, Dimitri P., 89k:90164**

El Din Younis, Mohamed Alaa *see* **Azmi, Zaki Ahmed, 89f:05085**

Engquist, M. *see* **Chang, M. D.; et al., 89g:90225**

Escudero, L. F. An inexact algorithm for the sequential ordering problem. **89h:90245**

Escudero, M. (*with* Fàbrega, J.; Morillo, P.) Fault-tolerant routings in double-loop networks. **89c:68010**

Fàbrega, J. *see* **Escudero, M.; et al., 89c:68010**

Federickson, Greg N. Fast algorithms for shortest paths in planar graphs, with applications. **89g:68024**

Feldman, Paul (*with* Friedman, Joel; Pippenger, Nicholas) Wide-sense nonblocking networks. **89g:94052**

Fellows, Michael R. (*with* Friesen, Donald K.; Langston, Michael A.) On finding optimal and near-optimal lineal spanning trees. **89m:68040**

Finkel, Rafael A. *see* **Chang, M. D.; et al., 89g:90225**

Fischer, Michael *see* **Broder, Andrei; et al., 89f:68007**

Fishburn, Peter C. (*with* Pollak, Henry O.) Proportional allocation schemes for tour costs. **89a:90074**

Fleischmann, Bernhard A new class of cutting planes for the symmetric travelling salesman problem. **89g:90226**

Fotheringham, A. Stewart (*with* Knudsen, Daniel C.) Modeling discontinuous change in the spatial pattern of retail outlets: a methodology. (*see* **89e:90072**)

Friedman, Joel A lower bound on strictly nonblocking networks. **89k:05056**

— *see also* **Feldman, Paul; et al., 89g:94052**

Friesen, Donald K. *see* **Fellows, Michael R.; et al., 89m:68040**

Frieze, A. M. On the exact solution of random travelling salesman problems with medium size integer coefficients. **89g:90104**

Fukushima, Masao (*with* Itoh, Takehisa) A dual approach to asymmetric traffic equilibrium problems. **89f:90060**

Füredi, Z. Matchings and covers in hypergraphs. **89i:05214**

Galbiati, G. *see* **Camerini, P. M.; et al., 89e:90206**

Galil, Zvi (*with* Landau, Gad M.; Yung, Mordechai M.) Distributed algorithms in synchronous broadcasting networks. **89a:68086**

— (*with* Schieber, Baruch) On finding most uniform spanning trees. **89e:05069**

Gavril, Fănică Generating the maximum spanning trees of a weighted graph. **89a:68099**

Giannini, L. M. *see* **Caccetta, L., 89i:05125**

Golumbic, Martin Charles (*with* Hammer, P. L.) Stability in circular arc graphs. **89g:05061**

— *see also* **Dagan, Ido; et al., 89i:05115**

Gondran, Michel (*with* Minoux, M.) ★ Graphes et algorithmes. (French) [Graphs and algorithms] **89i:90090**

Gonzalez, Teofilo F. (*with* Lee, Sing-Ling) A 1.6 approximation algorithm for routing multiterminal nets. **89a:68088**

Gröflin, H. On switching paths polyhedra. **89a:90089**

Guignard, Monique A Lagrangean dual ascent algorithm for simple plant location problems. **89b:90152**

Gulyanitskiĭ, L. F. An approach to the metrization of a permutation space and its use in problems of discrete optimization. (Russian) **89j:90255**

Gurvich, V. A. Equivalence of problems of calculating schemes, optimal flows and static equilibrium. (Russian) **89g:90170**

Hagihara, Ken'ichi *see* **Manabe, Yoshifumi; et al., 89i:68067**

Hajek, Bruce *see* **Sasaki, Galen, 89e:90170**

Hammer, P. L. *see* **Golumbic, Martin Charles, 89g:05061**

Hansen, Pierre *see* **Roucairol, Catherine, 89c:05047**

Harary, Frank (*with* Schuster, Seymour) Interpolation theorems for the independence and domination numbers of spanning trees. **89i:05163**

Havel, Timothy F. *see* **Dress, Andreas, 89e:92063**

He, Xin (*with* Yesha, Yaacov) A nearly optimal parallel algorithm for constructing depth first spanning trees in planar graphs. **89e:05071**

Hertz, A. *see* **de Werra, D., 89j:05037**

Heydemann, M.-C. (*with* Meyer, J.-C.; Sotteau, D.) On the forwarding index problem for small graphs. **89f:05108**

Hirata, Hironori *see* **Sugai, Yasuo**, (**89f:00029**)

Hoang, C. T. (*with* Reed, B. A.) A note on short cycles in digraphs. **89a:05072**

Hoede, Cornelis Crystallization: a new type of heuristic for the traveling salesman problem and other combinatorial optimization problems. **89h:90187**

Hosein, Patrick A. *see* **Bertsekas, Dimitri P.; et al., 89h:90243**

Ikeda, Hideto *see* **Kitagawa, Fumio, 89k:90087**

Imase, Makoto (*with* Manabe, Yoshifumi) Fault-tolerant routing in a κ-connected network. **89k:68005**

— *see also* **Soneoka, Terunao; et al., 89m:90079**

Israeli, A. *see* **Awerbuch, B.; et al., 89f:68015**

Itai, Alon (*with* Rodeh, Michael) The multi-tree approach to reliability in distributed networks. **89k:68006**

Itoh, Takehisa *see* **Fukushima, Masao, 89f:90060**

Jain, Anjani (*with* Mamer, John W.) Approximations for the random minimal spanning tree with application to network provisioning. **89h:90188**

Jamison, Beverly (*with* Olariu, Stephan) On the semi-perfect elimination. **89e:05169**

Jensen, Paul A. (*with* Barnes, J. Wesley) ★ Network flow programming. **89a:90152**

Johansson, Börje (*with* Leonardi, Giorgio) Public facility location: a multiregional and multi-authority decision context. (*see* **89m:90047**)

Jung, Hermann (*with* Mehlhorn, Kurt) Parallel algorithms for computing maximal independent sets in trees and for updating minimum spanning trees. **89f:68025**

Karpiński, M. (*with* Wagner, Klaus Werner) The computational complexity of graph problems with succinct multigraph representation. (German summary) **89e:68052**

Kawaguchi, Kimio *see* **Wada, Koichi; et al., 89b:68015**

Kinsella, John A. Simulated annealing—new developments in combinatorial optimization. **89d:90175**

Kitagawa, Fumio (*with* Ikeda, Hideto) An existential problem of a weight-controlled subset and its application to school timetable construction. **89k:90087**

Knudsen, Daniel C. *see* **Fotheringham, A. Stewart**, (**89e:90072**)

Koebe, Manfred (*with* Dupont, Peter) Single-layer channel routing. (German and Russian summaries) **89m:68108**

Kokhova, S. V. (*with* Kosorukov, O. A.) A class of dynamic problems on the optimal allocation of resources on network graphs. **89j:90085**

Korach, E. (*with* Moran, Shlomo; Zaks, S.) The optimality of distributive constructions of minimum weight and degree restricted spanning trees in a complete network of processors. **89b:68012**

Kosorukov, O. A. *see* **Kokhova, S. V., 89j:90085**

Kostochka, A. Upper bounds on the chromatic number of graphs. (Russian) **89d:05075**

Kozyrev, V. P. Finding spanning trees that are optimal with respect to several ranked criteria. (Russian) **89m:05044**

Krishnakumar, Bhaskaran *see* **Malmberg, Charles J.; et al., 89b:90064**

van Laarhoven, P. J. M. ★ Theoretical and computational aspects of simulated annealing. **89m:90136**

Labys, W. C. *see* **Takayama, T.**, (**89m:90047**)

Lahaije, P. D. M. (*with* Wester, R. H. H.) Efficient road-map management for a car navigation system. **89m:90113**

Landau, Gad M. *see* **Galil, Zvi; et al., 89a:68086**

Langston, Michael A. *see* **Fellows, Michael R.; et al., 89m:68040**

Laporte, Gilbert (*with* Mercure, Hélène; Nobert, Yves) Cutting planes based on bin packing solutions for the capacitated vehicle routing problem. **89e:90143**

Lee, Sing-Ling *see* **Gonzalez, Teofilo F., 89a:68088**

Lenhart, W. (*with* Pollack, Richard; Sack, J.; Seidel, R.; Sharir, M.; Suri, Subhash; Toussaint, Godfried T.; Whitesides, S.; Yap, Chee-Keng) Computing the link center of a simple polygon. **89k:68145**
Leonardi, Giorgio *see* **Johansson, Börje**, (**89m:90047**)
Liao, Wuwell Towards the solution of the graph bipartitioning problem. **89a:82028**
Liestman, Arthur L. (*with* Peters, Joseph G.) Broadcast networks of bounded degree. **89k:94110**
Luo, Yupin *see* **Wada, Koichi; et al., 89b:68015**
Madan, B. B. *see* **Zubair, M., 89a:68111**
Maffioli, Francesco *see* **Camerini, P. M.; et al., 89e:90206**
Maggs, Bruce M. (*with* Plotkin, Serge A.) Minimum-cost spanning tree as a path-finding problem. **89a:68091**
Maheshwari, Sachindra Nath *see* **Cheriyan, J., 89k:05055**
Mahmassani, Hani S. (*with* Mouskos, Kyriacos C.) Some numerical results on the diagonalization algorithm for network assignment with asymmetric interactions between cars and trucks. (Not in MR)
Malmborg, Charles J. (*with* Krishnakumar, Bhaskaran; Simons, Gene R.) A mathematical overview of warehousing systems with single/dual order-picking cycles. **89b:90064**
Mamer, John W. *see* **Jain, Anjani, 89h:90188**
Manabe, Yoshifumi (*with* Hagihara, Ken'ichi; Tokura, Nobuki) The minimum track number of the narrower channel in the single-row single-layer routing. **89i:68067**
— *see also* **Imase, Makoto, 89k:68005** *and* **Soneoka, Terunao; et al., 89m:90079**
Marcotte, Patrice A note on a bilevel programming algorithm by LeBlanc and Boyce. (Not in MR)
Masuda, Sumio (*with* Nakajima, Kazuo) An optimal algorithm for finding a maximum independent set of a circular-arc graph. **89e:68101**
Matsumoto, Hiroshi (*with* Cunha, Wagner Chiepa; Yamashita, Masafumi; Ae, Tadashi) Time complexity of response time estimation of multichannel communication networks. (Not in MR)
Mayr, Ernst *see* **Anderson, Richard John, 89j:68057**
Meerov, M. V. (*with* Akhmetzyanov, A. V.; Cherepakhin, A. V.) Modelling of nonstationary flows in closed-loop systems of oil and gas pipelines. (Not in MR)
Mehlhorn, Kurt *see* **Jung, Hermann, 89f:68025**
Mercure, Hélène *see* **Laporte, Gilbert; et al., 89e:90143**
Meyer, J.-C. *see* **Heydemann, M.-C.; et al., 89f:05108**
Meyer, R. R. *see* **Chang, M. D.; et al., 89g:90225**
Minoux, M. (*with* Pinson, E.) Lower bounds to the graph partitioning problem through generalized linear programming and network flows. (French summary) **89e:05159**
— *see also* **Gondran, Michel, 89i:90090**
Moffat, A. (*with* Takaoka, Tadao) An all pairs shortest path algorithm with expected time $O(n^2 \log n)$. **89c:68050**
Mohr, Th. (*with* Pasche, C.) A parallel shortest path algorithm. (German summary) **89j:90256**
Moldovan, Grigor (*with* Damian, Sergiu) On some generalizations of an optimization problem for distributed data bases. (Romanian summary) (Not in MR)
Moran, Shlomo *see* **Korach, E.; et al., 89b:68012**
Morillo, P. *see* **Escudero, M.; et al., 89c:68010**
Morozov, V. V. A method for solving systems of algebraic equations that arise in the design of tree-type networks. **89k:90167**
Mouskos, Kyriacos C. *see* **Mahmassani, Hani S.**, (Not in MR)
Mulmuley, Ketan (*with* Vazirani, Umesh V.; Vazirani, Vijay V.) Matching is as easy as matrix inversion. **89a:68092**
Mulvey, John M. *see* **Zenios, Stavros A., 89d:90231**
Murtagh, F. *see* **Adorf, H.-M., 89m:92009**
Murty, Katta G. A correction to a result in linear programming. Correction to: "Recognition of Gilmore-Gomory traveling salesman problem" [Discrete Appl. Math. **14** (1986), no. 3, 231–238; MR 87i:90301] by R. Chandrasekaran. **89g:90227**
Nakajima, Kazuo *see* **Masuda, Sumio, 89e:68101**
Nedelchev, K. Ts. *see* **Tokarev, D. D.; et al., 89d:05112**
Ng, Peter Lei *see* **Bhargava, Bharat**, (Not in MR)
Nieminen, Juhani The center and the distance center of a Ptolemaic graph. **89f:05109**
Ning, Qi An $O(|V|^3)$ algorithm for finding minimum weight triangle-free perfect 2-matchings. (Chinese) (Not in MR)
Nishizeki, T. (*with* Chiba, N.) ★ Planar graphs: theory and algorithms. **89f:05068**
Nobert, Yves *see* **Laporte, Gilbert; et al., 89e:90143**
Ntafos, Simeon *see* **Chin, Wei-Pang, 89f:68063**
Nulton, James D. (*with* Salamon, Peter) Statistical mechanics of combinatorial optimization. **89b:82144**
Ó'Dúnlaing, Colm A tight lower bound for the complexity of path-planning for a disc. **89k:68148**
Okamura, Haruko Paths in k-edge-connected graphs. **89k:05061**
Olariu, Stephan *see* **Jamison, Beverly, 89e:05169**
Pan, V. (*with* Reif, John H.) Extension of the parallel nested dissection algorithm to path algebra problems. **89b:68033**
— (*with* Reif, John H.) Parallel nested dissection for path algebra computations. **89a:65204**
Pasche, C. *see* **Mohr, Th., 89j:90256**
Peleg, David (*with* Simons, Barbara) On fault tolerant routings in general networks. **89a:68175**
— (*with* Upfal, Eli) The generalized packet routing problem. **89k:68071**
Pershin, O. Yu. *see* **Boronin, A. B., 89h:90244**
Peters, Joseph G. *see* **Liestman, Arthur L., 89k:94110**
Petkov, Ĭ. S. *see* **Tokarev, D. D.; et al., 89d:05112**
Pinson, E. *see* **Minoux, M., 89e:05159**
Pinter, Ron Yair *see* **Dagan, Ido; et al., 89i:05115**
Pippenger, Nicholas *see* **Feldman, Paul; et al., 89g:94052**
Plotkin, Serge A. *see* **Maggs, Bruce M., 89a:68091**
Polesskiĭ, V. P. Obstructions to a partition of a graph into trees. (Russian) **89i:05219**
Pollack, Richard *see* **Lenhart, W.; et al., 89k:68145**
Pollak, Henry O. *see* **Fishburn, Peter C., 89a:90074**
Provan, J. Scott Substitutes and complements in constrained linear models. **89c:90072**
— Shortest enclosing walks and cycles in embedded graphs. **89k:68149**
Pulat, P. Simin On the relation of max-flow to min-cut for generalized networks. **89m:90160**
Pulskamp, Richard J. Constructing a map from a table of intercity distances. **89g:15023**
Radó, F. The Euclidean multifacility location problem. **89j:90162**
Ramesh, Aparna (*with* Ball, Michael O.; Colbourn, Charles J.) Bounds for all-terminal reliability in planar networks. **89c:68012**
Reed, B. A. *see* **Hoang, C. T., 89a:05072**
Reibiger, Albrecht Grundlagen der Netzwerktheorie. [The foundations of network theory] (Not in MR)
Reif, John H. *see* **Pan, V., 89a:65204** *and* **89b:68033**
Robert, Yves Systolic algorithms for path-finding problems. (*see* **89c:68078**)
Rodeh, Michael *see* **Itai, Alon, 89k:68006**
Rohnert, Hans Time and space efficient algorithms for shortest paths between convex polygons. (Not in MR)
Romeuf, Jean-François Shortest path under rational constraint. **89j:68124**
Rouault, Alain ★ Superconcentrateurs. (French) [Superconcentrators] **89a:05091**
Roucairol, Catherine (*with* Hansen, Pierre) Problème de la bipartition minimale d'un graphe. (English summary) [The minimal bipartition problem for a graph] **89c:05047**
Rust, John Statistical models of discrete choice processes. **89a:90008**
Rytter, Wojciech On efficient parallel computations of costs of paths on a grid graph. **89j:68071**
Sack, J. *see* **Lenhart, W.; et al., 89k:68145**
Sakamoto, Akio *see* **Shimamoto, Takashi; et al., 89m:68113**
Salamon, Peter *see* **Nulton, James D., 89b:82144**
Sasaki, Galen (*with* Hajek, Bruce) The time complexity of maximum matching by simulated annealing. **89e:90170**
Savelsbergh, M. W. P. Local search in routing problems with time windows. **89b:90109**
Schieber, Baruch *see* **Galil, Zvi, 89e:05069**
Schulz, Reinald ★ Über das Feedback-Vertex-Set-Problem. (German) [On the feedback-vertex-set problem] **89e:05187**
Schuster, Seymour *see* **Harary, Frank, 89i:05163**
Segal, Moshe (*with* Topkis, Donald M.) Acyclic k-connected subgraphs for distributed alternate routing in communications networks. **89m:68112**
Seidel, R. *see* **Lenhart, W.; et al., 89k:68145**
Seress, Ákos Quick gossiping without duplicate transmissions. **89e:05018**
— Gossips by conference calls. **89d:05134**
— Quick gossiping by conference calls. **89d:05022**
Sharir, M. *see* **Baltsan, Avikam, 89g:68065** *and* **Lenhart, W.; et al., 89k:68145**
Sherali, H. D. Bounds on penalties for dummy arcs in transportation networks. **89h:90246**
Shier, D. R. *see* **Dearing, P. M.; et al., 89i:05176**
Shiloach, Y. *see* **Awerbuch, B.; et al., 89f:68015**
Shimamoto, Takashi (*with* Sakamoto, Akio; Ushida, Akio) On routability for channel routing problem. **89m:68113**
Siegrist, K. T. *see* **Amin, A. T.; et al., 89h:68118**
Simons, Barbara *see* **Peleg, David, 89a:68175**
Simons, Gene R. *see* **Malmborg, Charles J.; et al., 89b:90064**
Slater, P. J. *see* **Amin, A. T.; et al., 89h:68118**
Soneoka, Terunao (*with* Manabe, Yoshifumi; Imase, Makoto) A design of reliable networks using node redundancy. **89m:90079**
Sonis, Michael Transportation flows within central-place systems. **89j:90180**
Sotskov, Yu. N. (*with* Alyushkevich, V. B.) Stability of the optimal orientation of the edges of a mixed graph. (Russian. English summary) **89c:05048**
Sotteau, D. *see* **Heydemann, M.-C.; et al., 89f:05108**
Soumis, François *see* **Desrochers, Martin, 89b:90102**
Sugai, Yasuo (*with* Hirata, Hironori) Hierarchical simulated annealing optimization in partition problem. (*see* **89f:00029**)
Suri, Subhash *see* **Lenhart, W.; et al., 89k:68145**
Sussman-Fort, Stephen E. Approximate direct-search minimax circuit optimization. **89m:94024**
Sysło, Maciej M. A solvable case of the set-partitioning problem. **89c:05053**
Takaoka, Tadao *see* **Moffat, A., 89c:68050**
Takayama, T. (*with* Labys, W. C.) Spatial equilibrium analysis. (*see* **89m:90047**)
Tamir, Arie Improved complexity bounds for center location problems on networks by using dynamic data structures. **89k:90136**
Tarhio, Jorma (*with* Ukkonen, Esko) A greedy approximation algorithm for constructing shortest common superstrings. **89j:68064**
Tchuente, Maurice Computation on finite networks of automata. (*see* **89c:68078**)
Thulasiraman, K. (*with* Comeau, Marc A.) Maximum-weight markings in marked graphs: algorithms and interpretations based on the simplex method. **89b:05095**
Tiwari, Prasoon Lower bounds on communication complexity in distributed computer networks. **89a:68013**
Tokarev, D. D. (*with* Petkov, Ĭ. S.; Nedelchev, K. Ts.) Determination of the minimum graph between two points in a given network. (Bulgarian. English and Russian summaries) **89d:05112**
Tokura, Nobuki *see* **Manabe, Yoshifumi; et al., 89i:68067**
Topkis, Donald M. *see* **Segal, Moshe, 89m:68112**
Toussaint, Godfried T. *see* **Lenhart, W.; et al., 89k:68145**
Truemper, Klaus *see* **Tseng, F. T., 89b:05070**
Tseng, F. T. (*with* Truemper, Klaus) Addendum: "A decomposition of the matroids with the max-flow min-cut property" [Discrete Appl. Math. **15** (1986), no. 2-3, 329–364; MR 88b:05046]. **89b:05070**
Tseng, Paul *see* **Bertsekas, Dimitri P.; et al., 89h:90243**
Tsin, Yung Hyang On handling vertex deletion in updating minimum spanning trees. (Not in MR)
Tung, Chi Tung (*with* Chew, Kim Lin) A bicriterion Pareto-optimal path algorithm. **89j:90245**
Ukkonen, Esko *see* **Tarhio, Jorma, 89j:68064**
Upfal, Eli *see* **Peleg, David, 89k:68071**
Ushida, Akio *see* **Shimamoto, Takashi; et al., 89m:68113**

Vaidya, Pravin Minimum spanning trees in k-dimensional space. **89i:68104**

Vazirani, Umesh V. *see* **Mulmuley, Ketan; et al., 89a:68092**

Vazirani, Vijay V. *see* **Mulmuley, Ketan; et al., 89a:68092**

Wada, Koichi (*with* Kawaguchi, Kimio; Luo, Yupin) Fault-tolerant network routings for $(k+1)$-node connected and $(k+1)$-edge connected graphs. **89b:68015**

Wagner, Klaus Werner *see* **Karpiński, M., 89e:68052**

Wang, Wen Zhang An iterative method and its applications. (Chinese. English summary) **89k:94107**

Wang, Zhe Min On the generalized form of the maxflow-mincut theorem in real vector spaces. (Chinese) (Not in MR)

Warner, Daniel D. *see* **Dearing, P. M.; et al., 89i:05176**

Wegener, Ingo *see* **Ahlswede, Rudolf, 89c:68019**

Welzl, Emo *see* **Alt, Helmut, 89k:68141**

Wendel, H. The general minimum fill-in problem. **89d:05122**

de Werra, D. (*with* Hertz, A.) Consecutive colorings of graphs. (German summary) **89j:05037**

West, Douglas B. (*with* Banerjee, Prithviraj) On the construction of communication networks satisfying bounded fan-in of service ports. **89h:68122**

Wester, R. H. H. *see* **Lahaije, P. D. M., 89m:90113**

Whitesides, S. *see* **Lenhart, W.; et al., 89k:68145**

(Wotschke, Jean E.) *see* **Ahlswede, Rudolf, 89c:68019**

Yamashita, Masafumi *see* **Matsumoto, Hiroshi; et al.,** (Not in MR)

Yap, Chee-Keng *see* **Lenhart, W.; et al., 89k:68145**

Yesha, Yaacov *see* **He, Xin, 89e:05071**

Yung, Mordechai M. *see* **Galil, Zvi; et al., 89a:68086**

Zaks, S. *see* **Korach, E.; et al., 89b:68012**

Zenios, Stavros A. (*with* Mulvey, John M.) Relaxation techniques for strictly convex network problems. **89d:90231**

Zhang, Fu Zhen On the best Euclidean fit to a distance matrix. (Chinese. English summary) **89b:15040**

Zubair, M. (*with* Madan, B. B.) Efficient systolic algorithm for finding bridges in a connected graph. **89a:68111**

90B15 Flows in networks, probabilistic

Adlakha, V. G. *see* **Kulkarni, V. G., 89a:90060**

Akimaru, Haruo (*with* Ikeda, Tatsuhiko; Takahashi, Haruhisa) Optimum design of alternative routing systems with partial overflow scheme. **89h:90093**

Andreatta, Giovanni Shortest path models in stochastic networks. **89j:90113**

— (*with* Romeo, Luciano) Stochastic shortest paths with recourse. **89e:90093**

Anily, S. (*with* Federgruen, Awi) Ergodicity in parametric nonstationary Markov chains: an application to simulated annealing methods. **89g:90102**

Bard, Jonathan F. (*with* Miller, Jeanne L.) Probabilistic shortest path problems with budgetary constraints. (Not in MR)

Barma, Mustansir *see* **Dhar, Deepak; et al., 89a:90059**

Basharin, G. P. (*with* Kurenkov, B. E.) The analysis of redundant flows in channel switching networks. (Russian) **89e:90094**

Batta, Rajan Single server queueing-location models with rejection. (Not in MR)

Berman, Oded (*with* Simchi-Levi, David) The traveling salesman location problem on stochastic networks. **89m:90067**

Carey, Malachy (*with* Srinivasan, Ashok) Congested network flows: time-varying demands and start-time policies. **89e:90095**

Chakrabarti, B. K. *see* **Dhar, Deepak; et al., 89a:90059**

Daduna, Hans Busy periods for subnetworks in stochastic networks: mean value analysis. **89g:90103**

Dhar, Deepak (*with* Barma, Mustansir; Chakrabarti, B. K.; Taraphder, A.) The travelling salesman problem on a randomly diluted lattice. **89a:90059**

Disney, Ralph L. (*with* Kiessler, Peter C.) ★ Traffic processes in queueing networks. **89b:90081**

Federgruen, Awi *see* **Anily, S., 89g:90102**

Frieze, A. M. On the exact solution of random travelling salesman problems with medium size integer coefficients. **89g:90104**

Gavioli, Ilario *see* **Rossi, Francesco A., 89j:90116**

Ikeda, Tatsuhiko *see* **Akimaru, Haruo; et al., 89h:90093**

Jaillet, Patrick A priori solution of a traveling salesman problem in which a random subset of the customers are visited. **89j:90114**

Kamburowski, Jerzy On the computational complexity of the shortest route and maximum flow problems in stochastic networks. **89i:90034**

— An overview of the computational complexity of the PERT shortest route and maximum flow problems in stochastic networks. **89j:90115**

Kelly, F. P. Routing in circuit-switched networks: optimization, shadow prices and decentralization. **89k:90062**

Khan, Z. A. (*with* Sakaguchi, Minoru) A multiobjective stochastic shortest-route problem. **89h:90094**

Kiessler, Peter C. *see* **Disney, Ralph L., 89b:90081**

Kulkarni, V. G. (*with* Adlakha, V. G.) Markov and Markov-regenerative PERT networks. **89a:90060**

Kurenkov, B. E. *see* **Basharin, G. P., 89e:90094**

Laporte, Gilbert (*with* Louveaux, François; Mercure, Hélène) Models and exact solutions for a class of stochastic location-routing problems. **89m:90068**

Louveaux, François *see* **Laporte, Gilbert; et al., 89m:90068**

Mercure, Hélène *see* **Laporte, Gilbert; et al., 89m:90068**

Miller, Jeanne L. *see* **Bard, Jonathan F.,** (Not in MR)

Murga, E. I. (*with* Roenko, N. V.) On the solution of a two-stage stochastic problem on the k-median. (Russian. English summary) **89h:90095**

Nowlan, Steven J. Gain variation in recurrent error propagation networks. (Not in MR)

Ohta, Satoru (*with* Ueda, Hiromi) A rearrangement algorithm for three-stage switching networks. (Not in MR)

Płoszajski, Grzegorz *see* **Winnicki, Andrzej, (89g:00019)**

Roenko, N. V. *see* **Murga, E. I., 89h:90095**

Romeo, Luciano *see* **Andreatta, Giovanni, 89e:90093**

Rossi, Francesco A. (*with* Gavioli, Ilario) Aspects of heuristic methods in the "probabilistic traveling salesman problem" (PTSP). **89j:90116**

Sakaguchi, Minoru *see* **Khan, Z. A., 89h:90094**

Serfozo, Richard F. Equitable transit charges for multi-administration telecommunications networks. **89b:90082**

Simchi-Levi, David *see* **Berman, Oded, 89m:90067**

Srinivasan, Ashok *see* **Carey, Malachy, 89e:90095**

Srinivasan, Mandyam M. On extending the scope of bounding techniques for closed queueing networks. **89f:90059**

Takahashi, Haruhisa *see* **Akimaru, Haruo; et al., 89h:90093**

Taraphder, A. *see* **Dhar, Deepak; et al., 89a:90059**

Ueda, Hiromi *see* **Ohta, Satoru,** (Not in MR)

Winnicki, Andrzej (*with* Płoszajski, Grzegorz) Optimisation problem for by-pass routes creation in the case of a teletransmission line break-down. (*see* **89g:00019**)

Zachary, Stan Control of stochastic loss networks, with applications. **89e:90096**

Items with secondary classifications in 90B15

Afanas′eva, L. G. On the ergodicity of an open queueing network. (Russian) **89e:60179**

Ahmed, N. U. (*with* Dabbous, T. E.; Lee, Y. W.) Dynamic routing for computer queueing networks. **89g:90106**

Anantharam, Venkatachalam Probabilistic proof of the interchangeability of $\cdot/M/1$ queues in series. **89e:60181**

— Modelling the flow of coalescing data streams through a processor. **89d:60170**

Asmussen, Søren ★ Applied probability and queues. **89a:60208**

Baccelli, F. (*with* Fayolle, G.) Analysis of models reducible to a class of diffusion processes in the positive quarter plane. **89b:60168**

Bollobás, B. (*with* Fenner, T. I.; Frieze, A. M.) An algorithm for finding Hamilton paths and cycles in random graphs. **89h:05049**

Borovkov, A. A. Asymptotic analysis of communication networks. **89a:60243**

(Boxma, O. J.) *see* **Queueing theory and its applications, 89e:60004**

Charnes, A. (*with* Cooper, W. W.; Golany, B.; Masters, J.) Optimal design modifications by geometric programming and constrained stochastic network models. **89d:90240**

(Cohen, J. W.) *see* **Queueing theory and its applications, 89e:60004** *and* **Le Gall, Pierre, 89m:60239**

Cohen, Joel E. Subadditivity, generalized products of random matrices and operations research. **89g:60300**

Cooper, W. W. *see* **Charnes, A.; et al., 89d:90240**

Cui, Wen-Tian (*with* Fujishige, Satoru) A primal algorithm for the submodular flow problem with minimum-mean cycle selection. (Japanese summary) **89k:90052**

Dabbous, T. E. *see* **Ahmed, N. U.; et al., 89g:90106**

Faigle, Ulrich (*with* Schrader, Rainer) On the convergence of stationary distributions in simulated annealing algorithms. **89b:90173**

Fayolle, G. *see* **Baccelli, F., 89b:60168**

Fenner, T. I. *see* **Bollobás, B.; et al., 89h:05049**

Foley, Robert D. (*with* Kiessler, Peter C.) Positive correlations in a three-node Jackson queueing network. **89m:60227**

Fox, Dale R. Block cutpoint decomposition for Markovian queueing systems. **89d:90101**

Frieze, A. M. Finding Hamilton cycles in sparse random graphs. **89h:05050**

— *see also* **Bollobás, B.; et al., 89h:05049**

Fuhrmann, Steve W. (*with* Wang, Yung Terng) Analysis of cyclic service systems with limited service: bounds and approximations. **89j:90123**

Fujishige, Satoru *see* **Cui, Wen-Tian, 89k:90052**

van Ginneken, L. P. P. P. (*with* Otten, R. H. J. M.) An inner loop criterion for simulated annealing. **89g:90177**

Golany, B. *see* **Charnes, A.; et al., 89d:90240**

Ho, Yu-Chi Perturbation analysis of discrete event dynamical systems. (Chinese) (Not in MR)

den Hollander, W. Th. F. (*with* Weiss, G. H.) On the range of a constrained random walk. **89j:60097**

Hwang, F. K. Networks with shortest paths. (Chinese) (Not in MR)

Jaffe, Jeffrey M. (*with* Rosberg, Zvi) Maximal throughput in a tandem multi-hop radio network. **89k:68007**

Ji, Chuanshu Sequential scheduling of priority queues and arm-acquiring bandits. **89k:60139**

Kel′bert, M. Ya. (*with* Kontsevich, M. L.; Rybko, A. N.) Jackson networks on countable graphs. **89m:60235**

Kiessler, Peter C. *see* **Foley, Robert D., 89m:60227**

Kijima, Masaaki Some results for uniformizable semi-Markov processes. **89d:60165**

Kogan, Ya. A. (*with* Pukhal′skiĭ, A. A.) Tandem queue with finite intermediate waiting room and blocking in heavy traffic. (Russian summary) **89d:60179**

Kolesnik, A. D. Statistical simulation of a closed queueing system with variable intensity of call generation. (Russian) **89d:90103**

Kontsevich, M. L. *see* **Kel′bert, M. Ya.; et al., 89m:60235**

Koplik, J. (*with* Redner, S.; Wilkinson, David John) Transport and dispersion in random networks with percolation disorder. **89b:82131**

Körner, J. (*with* Marton, K.) Graphs that split entropies. **89k:05083**

Kruskal, Clyde P. (*with* Snir, Marc; Weiss, Alan) The distribution of waiting times in clocked multistage interconnection networks. **89k:68008**

Kulkarni, V. G. Minimal spanning trees in undirected networks with exponentially distributed arc weights. **89e:05072**

Lee, Y. W. *see* **Ahmed, N. U.; et al., 89g:90106**

Le Gall, Pierre Some comments on the work of J. W. Cohen and new results in the theory of queueing networks. **89m:60239**

Litvinenko, A. E. *see* **Zakusilo, O. K., 89a:68017**

Marton, K. *see* **Körner, J., 89k:05083**

Masters, J. *see* **Charnes, A.; et al., 89d:90240**

McDiarmid, Colin General percolation and oriented matroids. **89g:60309**

Mikhailov, A. S. Graph identification by simulated annealing. **89f:05139**

Otten, R. H. J. M. *see* **van Ginneken, L. P. P. P., 89g:90177**

Parekh, Shyam (*with* Walrand, Jean) Quick simulation of excessive backlogs in networks of queues. **89c:60109**
Pukhal'skiĭ, A. A. *see* **Kogan, Ya. A., 89d:60179**
Redner, S. *see* **Koplik, J.; et al., 89b:82131**
Rhee, WanSoo T. (*with* Talagrand, Michel) A sharp deviation inequality for the stochastic traveling salesman problem. **89m:60065**
Rosberg, Zvi *see* **Jaffe, Jeffrey M., 89k:68007**
Rybko, A. N. *see* **Kel'bert, M. Ya.; et al., 89m:60235**
Schrader, Rainer *see* **Faigle, Ulrich, 89b:90173**
Schweitzer, Paul J. *see* **Seidmann, Abraham; et al.,** (Not in MR)
Seidmann, Abraham (*with* Schweitzer, Paul J.; Shalev-Oren, Sarit) Computerized closed queueing network models of flexible manufacturing systems: a comparative evaluation. (Not in MR)
Shalev-Oren, Sarit *see* **Seidmann, Abraham; et al.,** (Not in MR)
Snir, Marc *see* **Kruskal, Clyde P.; et al., 89k:68008**
Stidham, Shaler, Jr. Scheduling, routing, and flow control in stochastic networks. **89b:60228**
Syski, R. Markov processes and teletraffic. **89k:60113**
— *see also* **Queueing theory and its applications, 89e:60004**
Talagrand, Michel *see* **Rhee, WanSoo T., 89m:60065**
Tsitsiklis, John N. A survey of large time asymptotics of simulated annealing algorithms. **89d:90177**
Walrand, Jean *see* **Parekh, Shyam, 89c:60109**
Wang, Yung Terng *see* **Fuhrmann, Steve W., 89j:90123**
Weisbuch, Gérard Patterns in random Boolean nets. (*see* **89b:58064**)
Weiss, Alan *see* **Kruskal, Clyde P.; et al., 89k:68008**
Weiss, G. H. *see* **den Hollander, W. Th. F., 89j:60097**
Wilkinson, David John *see* **Koplik, J.; et al., 89b:82131**
Zakusilo, O. K. (*with* Litvinenko, A. E.) Optimization of the operation of a computer network by queueing theory methods. (Russian) **89a:68017**
Zambitskiĭ, D. K. (*with* Zambitskiĭ, M. K.) An algorithm for the optimal arrangement of medians on a tree with vertex probability weights. (Russian) **89c:90054**
Zambitskiĭ, M. K. *see* **Zambitskiĭ, D. K., 89c:90054**
Ziedins, Ilze Quasistationary distributions and one-dimensional circuit-switched networks. **89g:60233**

Items listed otherwise than by author

Birthday:
Cohen, Jacob Willem ★ Queueing theory and its applications. **89e:60004**
Queueing theory and its applications ★ Queueing theory and its applications. **89e:60004**

90B20 Highway traffic

Baklan, V. V. (*with* Shkvarchenko, T. V.) A probabilistic model for transportation flow. (Russian) **89h:90096**
Barceló Bugeda, Jaume Simulation and applications to traffic control. (Spanish. English summary) **89k:90063**
van Doorn, Erik A. *see* **Mehta, Madan Lal, 89g:90105**
Eid, Shawki Z. *see* **Mahmoud, Magdi S., 89b:90084**
Friesz, Terry L. *see* **Tobin, Roger L., 89j:90120**
Fukushima, Masao (*with* Itoh, Takehisa) A dual approach to asymmetric traffic equilibrium problems. **89f:90060**
— *see also* **Itoh, Takehisa; et al., 89e:90097**
Glasserman, Paul Infinitesimal perturbation analysis of a birth and death process. **89b:90083**
Gomes, Luiz F. A. M. On stochastic games related to traffic equilibration. **89f:90061**
Guélat, Jacques *see* **Marcotte, Patrice, 89b:90085**
Ibaraki, Toshihide *see* **Itoh, Takehisa; et al., 89e:90097**
Itoh, Takehisa (*with* Fukushima, Masao; Ibaraki, Toshihide) An iterative method for variational inequalities with application to traffic equilibrium problems. (Japanese summary) **89e:90097**
— *see also* **Fukushima, Masao, 89f:90060**
Mahmassani, Hani S. (*with* Mouskos, Kyriacos C.) Some numerical results on the diagonalization algorithm for network assignment with asymmetric interactions between cars and trucks. (Not in MR)
Mahmoud, Magdi S. (*with* Eid, Shawki Z.) Optimization of freeway traffic control problems. **89b:90084**
Marcotte, Patrice (*with* Guélat, Jacques) Adaptation of a modified Newton method for solving the asymmetric traffic equilibrium problem. **89b:90085**
Mathur, M. C. (*with* Satsangi, P. S.) Integrating physical system-theoretic and entropy-maximizing approaches of transport analysis. **89d:90098**
Mehta, Madan Lal (*with* van Doorn, Erik A.) Inequalities for Charlier polynomials with application to teletraffic theory. **89g:90105**
Miyake, Kou Analysis for loss system with finite sources which require several channels simultaneously. **89j:90117**
Mouskos, Kyriacos C. *see* **Mahmassani, Hani S.,** (Not in MR)
Prajapati, M. B. Traffic modelling: "coming to stop" model. (Not in MR)
Puu, Tõnu Catastrophe theory applied to the refraction of traffic. (*see* **89c:00028**)
Ross, Paul Traffic dynamics. **89j:90118**
Satsangi, P. S. *see* **Mathur, M. C., 89d:90098**
Schochet, Steven The instant-response limit in Whitham's nonlinear traffic-flow model: uniform well-posedness and global existence. **89k:90064**
Shkvarchenko, T. V. *see* **Baklan, V. V., 89h:90096**
Stein, S. K. An inequality between two speed averages. **89j:90119**
Tobin, Roger L. (*with* Friesz, Terry L.) Sensitivity analysis for equilibrium network flow. **89j:90120**
Weiss, Manfred Fuzzy-Theorie—Anwendungsprinzipien und Anwendungen im Verkehrswesen. [Fuzzy theory—principles of application and applications in traffic theory] **89f:90062**

Items with secondary classifications in 90B20

Androsov, S. M. (*with* Gluzman, B. Yu.; Oslon, V. A.) Methods for the program realization of algorithms for searching for the shortest distances on a graph in a transportation automatic control system. (Russian. English summary) **89f:05105**
Bertsimas, Dimitris (*with* Papaconstantinou, Xenophon) On the steady-state solution of the $M/C_2(a,b)/s$ queueing system. **89b:60207**
Cascetta, Ennio (*with* Nguyen, Sang) A unified framework for estimating or updating origin/destination matrices from traffic counts. (Not in MR)
Dembo, Ron S. (*with* Tulowitzki, Ulrich) Computing equilibria on large multicommodity networks: an application of truncated quadratic programming algorithms. **89j:90216**
Disney, Ralph L. (*with* Kiessler, Peter C.) ★ Traffic processes in queueing networks. **89b:90081**
Falin, G. I. Calculation of a hybrid switching system with a floating threshold in the presence of buffers. **89k:90067**
Gluzman, B. Yu. *see* **Androsov, S. M.; et al., 89f:05105**
Kiessler, Peter C. *see* **Disney, Ralph L., 89b:90081**
Kuh, Ernest S. *see* **Xiong, Xiao-Ming, 89m:90066**
Meier-Hellstern, Kathleen S. The analysis of a queue arising in overflow models. **89m:90070**
Nguyen, Sang *see* **Cascetta, Ennio,** (Not in MR)
Oslon, V. A. *see* **Androsov, S. M.; et al., 89f:05105**
Papaconstantinou, Xenophon *see* **Bertsimas, Dimitris, 89b:60207**
Ross, Keith W. (*with* Yao, David D.) Optimal dynamic scheduling in Jackson networks. **89j:90151**
Savelsbergh, M. W. P. Local search in routing problems with time windows. **89b:90109**
Syski, R. Markov processes and teletraffic. **89k:60113**
Tulowitzki, Ulrich *see* **Dembo, Ron S., 89j:90216**
Virtamo, Jorma T. Reciprocity of blocking probabilities in multiservice loss systems. **89f:90066**
Xiong, Xiao-Ming (*with* Kuh, Ernest S.) A unified approach to the via minimization problem. **89m:90066**
Yao, David D. *see* **Ross, Keith W., 89j:90151**
Zachary, Stan Control of stochastic loss networks, with applications. **89e:90096**

90B22 Queueing theory, service models, etc. [see also 60K25]

Abe, Olajide Queuing with lane selection. **89k:90065**
Ahmed, N. U. (*with* Dabbous, T. E.; Lee, Y. W.) Dynamic routing for computer queueing networks. **89g:90106**
Akimaru, Haruo (*with* Kuribayashi, Hiroshi; Inoue, Takeshi) Approximate evaluation for mixed delay and loss systems with renewal and Poisson inputs. **89d:90099**
Alidrisi, Mustafa M. Linear programming model for the optimal control of a queueing network. **89b:90086**
Apostolopoulos, Theodore K. Resource sharing among N conflicting queues—queue size distribution and response measures. (Not in MR)
Aralbaev, T. Z. (*with* Nazimov, A. B.; Galimov, R. È.) Peculiarities of the computer decomposition of a group code for calculating the routes of a server. (Russian. Tajiki summary) (Not in MR)
Bertsimas, Dimitris (*with* Papaconstantinou, Xenophon) Analysis of the stationary $E_k/C_2/s$ queueing system. **89j:90121**
Boxma, O. J. (*with* Groenendijk, Wim P.) Waiting times in discrete-time cyclic-service systems. **89g:90107**
Brandwajn, Alexandre (*with* Jow, Yung-Li Lily) An approximation method for tandem queues with blocking. **89b:90087**
Brière, G. (*with* Chaudhry, M. L.) Computational analysis of single-server bulk-arrival queues $M^X/G/1$. **89d:90100**
Cao, Xi-Ren Realization probability in multi-class closed queuing networks. **89k:90066**
— The static property of a perturbed multiclass closed queueing network and decomposition. **89j:90122**
— *see also* **Heidelberger, Philip; et al., 89i:90036**
Chakravarthy, Srinivasaraghavan (*with* Neuts, Marcel F.) Algorithms for the design of finite-capacity service units. **89m:90069**
Chan, R. H. Iterative methods for overflow queuing models. II. **89g:90108**
Chang, Chin Fu *see* **Chang, Chung Ju, 89e:90098**
Chang, Chung Ju (*with* Chang, Chin Fu) Performance evaluation of a finite queue with random routing. (Chinese summary) **89e:90098**
Chaudhry, M. L. *see* **Brière, G., 89d:90100**
Chernyak, V. V. Mathematical methods for optimizing the number of workers of a control apparatus. (Russian) **89e:90099**
Chung, K. P. Steady state solution and convergence rate of time-dependent Markov chains of queuing networks. **89g:90109**
— Steady state solution and convergence rate of time-dependent Markov chains of queuing networks. (*see* **89d:00007**)
Dabbous, T. E. *see* **Ahmed, N. U.; et al., 89g:90106**
Davis, Mark M. *see* **Kwan, Stephen K.; et al., 89h:90101**
van Dijk, Nico M. (*with* Lamond, Bernard F.) Simple bounds for finite single-server exponential tandem queues. **89e:90100**
— On Jackson's product form with "jump-over" blocking. **89h:90097**
Dimitrov, M. Ts. A single-server $PH|G|1$ system with an infinite buffer. (Russian. English and Bulgarian summaries) **89f:90063**
Doshi, Bharat (*with* Wong, Wing Shing) Exact solution of a simple finite infinite source interaction model. **89c:90055**
Dudin, A. N. Optimal control of a two-rate queueing system with inertial switching. **89e:90101**
Ephremides, Anthony *see* **Rao, Ramesh R., 89m:90072**
Falin, G. I. Calculation of a hybrid switching system with a floating threshold in the presence of buffers. **89k:90067**
Federgruen, Awi (*with* Groenevelt, H.) $M/G/c$ queueing systems with multiple customer classes: characterization and control of achievable performance under nonpreemptive priority rules. **89f:90064**

Fox, Dale R. Block cutpoint decomposition for Markovian queueing systems. **89d:90101**
Fuhrmann, Steve W. (*with* Wang, Yung Terng) Analysis of cyclic service systems with limited service: bounds and approximations. **89j:90123**
Galimov, R. È. *see* **Aralbaev, T. Z.; et al.**, (Not in MR)
Ghosal, A. (*with* Gujaria, S. C.) Note on the best order for queues in series. **89b:90088**
Greenberg, Betsy S. (*with* Wolff, Ronald W.) Optimal order of servers for tandem queues in light traffic. **89b:90089**
Greenwood, Allen G. *see* **Kwan, Stephen K.; et al., 89h:90101**
Groenendijk, Wim P. *see* **Boxma, O. J., 89g:90107**
Groenevelt, H. *see* **Federgruen, Awi, 89f:90064**
Gujaria, S. C. *see* **Ghosal, A., 89b:90088**
Gupta, U. C. Steady state results for the transportation system with k classes of vehicles. **89h:90098**
Guseĭnov, B. A. (*with* Ushakov, I. A.) Use of generating functions for the construction of a Pareto set. (Russian) **89e:90102**
Harel, Arie Sharp bounds and simple approximations for the Erlang delay and loss formulas. **89i:90035a**
— Erratum to: "Sharp bounds and simple approximations for the Erlang delay and loss formulas". **89i:90035b**
Heidelberger, Philip (*with* Cao, Xi-Ren; Zazanis, Michael A.; Suri, Rajan) Convergence properties of infinitesimal perturbation analysis estimates. **89i:90036**
Hipp, Sabine K. (*with* Holzbaur, Ulrich D.) Decision processes with monotone hysteretic policies. **89h:90099**
Hirayama, Tetsuji Nonpreemptive scheduling of a finite-source queue with two customer classes. (Japanese summary) **89d:90102**
Ho, Yu-Chi Perturbation analysis of discrete event dynamical systems. (Chinese) (Not in MR)
Hofri, Micha Reduced state-space heuristics for symmetric Markovian queueing systems. **89j:90124**
Holzbaur, Ulrich D. *see* **Hipp, Sabine K., 89h:90099**
Inoue, Takeshi *see* **Akimaru, Haruo; et al., 89d:90099**
Jain, Sudha (*with* Templeton, J. G. C.) Statistical inference for $G/M/1$ queueing system. **89j:90125**
Jow, Yung-Li Lily *see* **Brandwajn, Alexandre, 89b:90087**
Kelton, W. David *see* **Murray, Joseph R., 89e:90105**
Kleinrock, Leonard (*with* Levy, Hanoch) The analysis of random polling systems. **89h:90100**
Kolesnik, A. D. Statistical simulation of a closed queueing system with variable intensity of call generation. (Russian) **89d:90103**
Kruskal, Clyde P. (*with* Snir, Marc; Weiss, Alan) The distribution of waiting times in clocked multistage interconnection networks. (*see* **89b:68010**)
Kumar, Uma (*with* Kumar, Vinod^2) Queue length distributions of the $M/G/I$ queueing system: some information theoretic approximations. **89k:90068**
Kumar, Vinod^2 *see* **Kumar, Uma, 89k:90068**
Kuribayashi, Hiroshi *see* **Akimaru, Haruo; et al., 89d:90099**
Kwan, Stephen K. (*with* Davis, Mark M.; Greenwood, Allen G.) A simulation model for determining variable worker requirements in a service operation with time-dependent customer demand. **89h:90101**
Lakshmanan, V. S. (*with* Thathachar, Mandayam A. L.) Dynamic arrival routing—a generalized problem and an optimal routing algorithm. **89a:90061**
Lamond, Bernard F. *see* **van Dijk, Nico M., 89e:90100**
Larson, Richard C. Perspectives on queues: social justice and the psychology of queueing. **89b:90090**
Lee, Ho Woo $M/G/1$ queue with exceptional first vacation. **89h:90102**
Lee, Y. W. *see* **Ahmed, N. U.; et al., 89g:90106**
Levy, Hanoch *see* **Kleinrock, Leonard, 89h:90100**
Lin, Qi Ning *see* **Luo, Zhong Zhou**, (Not in MR)
Luo, Rong Gui Serial queueing system with two service mechanisms. **89h:90103**
Luo, Zhong Zhou (*with* Lin, Qi Ning) Four-stage cyclic finite queuing systems. (Chinese. English summary) (Not in MR)
Martin, Gene E. (*with* Pankoff, L. D.) Optimal customer decisions in a $G/M/c$ queue. **89h:90104**
McKenna, James Extensions and applications of RECAL in the solution of closed product-form queueing networks. **89g:90110**
Meier-Hellstern, Kathleen S. The analysis of a queue arising in overflow models. **89m:90070**
Menaldi, José-Luis (*with* Robin, Maurice) On the control of queueing systems with failures and repairs. **89h:90105**
Mesa López-Colmenar, Juan Antonio Reduction of dimensionality in minimax stochastic dynamical localization: the nonfinite state space. (Spanish. English summary) **89g:90111**
Mikadze, I. S. (*with* Mikadze, Z. I.; Shakaya, O. N.) Analysis of a multiprocessor queueing system and a multimachine queueing system taking account of equipment reliability. (Russian. English and Georgian summaries) **89h:90106**
Mikadze, Z. I. *see* **Mikadze, I. S.; et al., 89h:90106**
Mizuno, Norihiro Some thoughts on an $O(N^3)$-algorithm for the optimal control of arrivals in a $GI/M/1/N$ queue. **89f:90065**
Mueller, Bruno W. An approximate product form for a class of degradable queueing networks. **89e:90103**
Mulligan, J. G. Economies of scale for the $GI/G/c$ queuing model. **89e:90104**
Murray, Joseph R. (*with* Kelton, W. David) The transient behavior of the $M/E_k/2$ queue and steady-state simulation. **89e:90105**
Myrzanov, Zh. E. *see* **Pereverzev, S. V., 89h:90107**
Nain, Ph. Interchange arguments for classical scheduling problems in queues. **89m:90071**
Nazimov, A. B. *see* **Aralbaev, T. Z.; et al.**, (Not in MR)
Neuts, Marcel F. *see* **Chakravarthy, Srinivasaraghavan, 89m:90069**
Ong, Kim L. (*with* Taaffe, Michael R.) Approximating nonstationary $\mathrm{Ph}(t)/\mathrm{Ph}(t)/1/c$ queueing systems. **89j:90126**
Pankoff, L. D. *see* **Martin, Gene E., 89h:90104**
Papaconstantinou, Xenophon *see* **Bertsimas, Dimitris, 89j:90121**
Parekh, Shyam (*with* Walrand, Jean) A quick simulation method for excessive backlogs in networks of queues. **89j:90127**
Pereverzev, S. V. (*with* Myrzanov, Zh. E.) A problem of approximate integration arising in the theory of queueing systems. (Russian) **89h:90107**
Pourbabai, Behnam Tandem behavior of an $M/M/1/N \to G/M/1$ queuing system. **89g:90112**
Pyatkov, S. N. A two-channel queueing system with losses and transfer of demand from one queue to another. **89e:90106**
Rao, Ramesh R. (*with* Ephremides, Anthony) On the stability of interacting queues in a multiple-access system. **89m:90072**
Rech, Paul *see* **Rothkopf, Michael H., 89b:90091**
Reiman, Martin I. (*with* Simon, Burton) An interpolation approximation for queueing systems with Poisson input. (Not in MR)
Ridder, Ad A linear programming problem in separable closed queueing networks. **89j:90128**
Ripley, B. D. Simulation methodology—an introduction for queueing theorists. **89h:90108**
Robin, Maurice *see* **Menaldi, José-Luis, 89h:90105**
Rothkopf, Michael H. (*with* Rech, Paul) Perspectives on queues: combining queues is not always beneficial. **89b:90091**
Schechner, Zvi *see* **Yao, David D., 89j:90130**
Shakaya, O. N. *see* **Mikadze, I. S.; et al., 89h:90106**
Simon, Burton *see* **Reiman, Martin I.**, (Not in MR)
Snir, Marc *see* **Kruskal, Clyde P.; et al.**, (**89b:68010**)
Srinivasan, Mandyam M. An approximation for mean waiting times in cyclic server systems with nonexhaustive service. **89j:90129**
Suri, Rajan *see* **Heidelberger, Philip; et al., 89i:90036**
Taaffe, Michael R. *see* **Ong, Kim L., 89j:90126**
Takahashi, Yoshitaka On the relationship between work load and waiting time in single server queues with batch inputs. **89e:90107**
Templeton, J. G. C. *see* **Jain, Sudha, 89j:90125**
Thathachar, Mandayam A. L. *see* **Lakshmanan, V. S., 89a:90061**
Tian, Nai Shuo On the transient solution of $M/M/1$ systems. (Chinese) (Not in MR)
Ushakov, I. A. *see* **Guseĭnov, B. A., 89e:90102**
Virtamo, Jorma T. Reciprocity of blocking probabilities in multiservice loss systems. **89f:90066**
Walrand, Jean *see* **Parekh, Shyam, 89j:90127**
Wang, Rong Xin *see* **Xu, Guang Hui, 89k:90069**
Wang, Yung Terng *see* **Fuhrmann, Steve W., 89j:90123**
Weiss, Alan *see* **Kruskal, Clyde P.; et al.**, (**89b:68010**)
Whitt, Ward A light-traffic approximation for single-class departure processes from multi-class queues. **89i:90037**
Wolff, Ronald W. *see* **Greenberg, Betsy S., 89b:90089**
Wong, Wing Shing *see* **Doshi, Bharat, 89c:90055**
Xu, Guang Hui (*with* Wang, Rong Xin) Approximation theory of stochastic service systems. (Chinese) **89k:90069**
Yao, David D. The arrangement of servers in an ordered-entry system. **89b:90092**
— (*with* Schechner, Zvi) Decentralized control of service rates in a closed Jackson network. **89j:90130**
Zazanis, Michael A. *see* **Heidelberger, Philip; et al., 89i:90036**

Items with secondary classifications in 90B22

Abate, Joseph (*with* Whitt, Ward) Transient behavior of the $M/M/1$ queue via Laplace transforms. **89e:60178**
— (*with* Whitt, Ward) The correlation functions of RBM and $M/M/1$. **89g:60275**
— (*with* Whitt, Ward) Simple spectral representations for the $M/M/1$ queue. **89m:60214**
Abol′nikov, Lev On some inventory control problems with state-dependent parameters. **89a:60235**
Afanas′ev, B. A. Systems with hidden servicing under conditions of a heavy load. I. **89d:60168**
Afanas′eva, L. G. On the ergodicity of an open queueing network. (Russian) **89e:60179**
Aisbett, Janet Cyclic audit of a multichannel system. **89f:60105**
Aĭssani, D. Estimation quantitative de la norme de déviation de l'opérateur de transition d'un systéme $M/G/1$. (English summary) [Quantitative estimate of the deviation norm of the transition operator of an $M/G/1$ system] **89m:60215**
Akbulatov, N. A. The length of a queue in an $M_2|G_2|1|\infty$ system with a certain kind of service discipline with no interruption. (Russian) **89e:60180**
Akhmedov, T. I. *see* **Kolotenko, G. A., 89h:92023**
Akimaru, Haruo *see* **Takahashi, Haruhisa, 89i:60193**
Akyildiz, I. F. Product form approximations for queueing networks with multiple servers and blocking. (Not in MR)
Al′bores, F. Kh. (*with* Bocharov, P. P.) A single-server service system of finite capacity with distributions of phase type and absolute priority. (Russian. English summary) **89b:60206**
Aldous, David (*with* Shepp, L. A.) The least variable phase type distribution is Erlang. **89h:60115**
Alperstein, Hanna Optimal pricing policy for the service facility offering a set of priority prices. **89a:90038**
Altiok, Tayfur Queues with group arrivals and exhaustive service discipline. **89d:60169**
Amosova, N. N. (*with* Gillert, H.; Küchler, U.; Maksimov, Yu. D.) ★ Bedienungstheorie. (German) [Queuing theory] **89a:60207**
Anantharam, Venkatachalam Probabilistic proof of the interchangeability of $\cdot/M/1$ queues in series. **89e:60181**
— Modelling the flow of coalescing data streams through a processor. **89d:60170**
Andropov, V. M. Analytical methods of analyzing the functioning of the distributed multi-microprocessor systems. **89m:60216**
Arndt, Klaus *see* **Sulanke, H., 89m:60244**
Asmussen, Søren (*with* Johansen, Helle) Über eine Stetigkeitsfrage betreffend das Bedienungssystem $GI/GI/s$. (English and Russian summaries) [On a robustness problem for the $GI/GI/s$ queue] **89j:60122**
— ★ Applied probability and queues. **89a:60208**
— The heavy traffic limit of a class of Markovian queueing models. **89g:60276**
Assimakopoulos, Nikitas Two-stage service system. **89a:60209**

— A waiting system with two stages. **89e:60183**
Avi-Itzhak, Benjamin (*with* Halfin, Shlomo) Response times in $M/M/1$ time-sharing schemes with limited number of service positions. **89e:90121**
Baccelli, F. (*with* Fayolle, G.) Analysis of models reducible to a class of diffusion processes in the positive quarter plane. **89b:60168**
— (*with* Makowski, Armand M.) Letter to the editor: "Stability and bounds for single server queues in random environment" [Comm. Statist. Stochastic Models **2** (1986), no. 2, 281–291; MR 87m:60206]. **89i:60178**
Basawa, I. V. (*with* Prabhu, N. U.) Large sample inference from single server queues. **89m:60217**
Basharin, G. P. (*with* Kurenkov, B. E.) The analysis of redundant flows in channel switching networks. (Russian) **89e:90094**
Belokurov, D. V. Finite-dimensional distributions of the length of the queue in priority systems. (Russian) **89a:60210**
Belyaev, K. P. *see* **D′yakonova, E. E., 89a:60215**
Bertsimas, Dimitris (*with* Papaconstantinou, Xenophon) On the steady-state solution of the $M/C_2(a,b)/s$ queueing system. **89b:60207**
Blanc, J. P. C. On a numerical method for calculating state probabilities for queueing systems with more than one waiting line. **89a:60211**
— On the relaxation times of open queueing networks. **89m:60218**
— (*with* Iasnogorodski, R.; Nain, Ph.) Analysis of the $M/GI/1 \to \cdot/M/1$ queueing model. **89e:60184**
Bocharov, P. P. *see* **Al′bores, F. Kh., 89b:60206**
Boxma, O. J. (*with* Groenendijk, Wim P.) Two queues with alternating service and switching times. **89j:60123**
— *see also* **Queueing theory and its applications, 89e:60004**
Brandt, Andreas On stationary queue length distributions for $G/M/s/r$ queues. **89d:60158**
— (*with* Sulanke, H.) On the $GI/M/\infty$ queue with batch arrivals of constant size. **89f:60106a**
— (*with* Sulanke, H.) Acknowledgement of priority. Comment on: "On the $GI/M/\infty$ queue with batch arrivals of constant size". **89f:60106b**
Brekhov, O. M. (*with* Karshiev, A. Sh.) An exponential two-node multiphase queueing system with loss of customers. (Russian. English summary) **89f:60107**
Brière, G. (*with* Chaudhry, M. L.) Computational analysis of single-server bulk-arrival queues: $GI^X/M/1$. **89c:60102**
— *see also* **Chaudhry, M. L.; et al., 89g:60278**
Brodi, S. M. (*with* Migalko, N. A.) A queueing model with variable number of servers. **89j:60124**
Brun, M. A. *see* **Fayolle, G., 89i:60179**
Chabanyuk, V. S. ★ Одна задача Скорохода и диффузионная аппроксимация систем массового обслуживания. (Russian) [A problem of Skorokhod and the diffusion approximation of queueing systems] **89d:60171**
Chan, R. H. Iterative methods for overflow queueing models. I. **89b:60210**
Chang, Sheng-Lin *see* **Kao, Edward P. C.**, (Not in MR)
Chatterjee, U. (*with* Mukherjee, S. P.) Two bulk queueing models with vacation periods. **89f:60108**
Chaudhry, M. L. (*with* Madill, B. R.; Brière, G.) Computational analysis of steady-state probabilities of $M/G^{a,b}/1$ and related nonbulk queues. **89g:60278**
— (*with* Medhi, J.; Sim, S. H.; Templeton, J. G. C.) On a two-heterogeneous-server Markovian queue with general bulk service rules. **89a:60212**
— A letter from Dr. Chaudhry: "On the connection between the stationary distributions of the states of a bulk queueing system" [Tamkang J. Management Sci. **7** (1986), no. 2, 23–30; MR 87k:60232] by G. S. Mokaddis. **89e:60185**
— *see also* **Brière, G., 89c:60102**
Clark, Gordon M. *see* **Taaffe, Michael R., 89a:60232**
Coffman, E. G., Jr. (*with* Mitrani, I.) Storage of the single-server queue. **89m:60219**
Cohen, J. W. A two-queue, one-server model with priority for the longer queue. **89d:60172**
— Boundary value problems in queueing theory. **89f:60109**
— *see also* **Queueing theory and its applications, 89e:60004** *and* **Le Gall, Pierre**, **89m:60239**
Conolly, Brian W. Topics in the theory of queues. **89k:60130**
Conway, Adrian E. (*with* de Souza e Silva, Edmundo; Lavenberg, S. S.) Mean value analysis by chain of product form queueing networks. **89k:90080**
Daduna, Hans Optimal control of a queueing system with an exponential and an Erlangian server and renewal input stream. **89a:60213**
— Busy periods for subnetworks in stochastic networks: mean value analysis. **89g:90103**
Dahan, Simon (*with* Todor, Fabian) Divers problèmes de moments dans les modèles de files d'attente $M/G/1$. [Various moment problems in $M/G/1$ queueing models] **89b:60211**
Daley, D. J. Certain optimality properties of the first-come first-served discipline for $G/G/s$ queues. **89a:60214**
Danielyan, È. A. (*with* Saakyan, V. G.) The moments of waiting times in the priority models $Mr|Gr|1|\infty$ under a critical load. (Russian. Armenian summary) (Not in MR)
— A limit theorem for the waiting time in an $M|G|1|\infty$ model when the traffic intensity is equal to one. (Russian. English and Armenian summaries) **89c:60103**
— (*with* Liese, Friedrich) $M/G/1/\infty$-queuing-model with unit traffic-intensity in continuous time. **89d:60173**
Dass, J. *see* **Sharma, Om Prakash, 89k:60147**
van Dijk, Nico M. (*with* Puterman, Martin L.) Perturbation theory for Markov reward processes with applications to queueing systems. **89h:60108**
— Perturbation theory for unbounded Markov reward processes with applications to queueing. **89h:60109**
— Finite source blocking systems with multi-level active and idle periods. **89m:60220**
— A formal proof for the insensitivity of simple bounds for finite multiserver nonexponential tandem queues based on monotonicity results. **89h:60154**
— A proof of simple insensitive bounds for a pure overflow system. **89m:60221**
— Blocking of finite source inputs which require simultaneous servers with general think and holding times. **89m:60222**
— (*with* van der Wal, Jan) Simple bounds and monotonicity results for finite multi-server exponential tandem queues. **89m:60223**
Disney, Ralph L. (*with* Kiessler, Peter C.) ★ Traffic processes in queueing networks. **89b:90081**
van Doorn, Erik A. (*with* Regterschot, G. J. K.) Conditional PASTA. **89j:60125**
van Doremalen, Jan (*with* Wessels, Jaap) A recursive aggregation-disaggregation method to approximate large-scale closed queueing networks with multiple job types. **89k:60131**
Doshi, Bharat Queueing systems with vacations—a survey. **89b:60212**
— (*with* Kaufman, J. S.) Sojourn time in an $M/G/1$ queue with Bernoulli feedback. **89k:60132**
Drabkin, L. *see* **Khusanov, M., 89g:60287**
Drogou, M. *see* **Proust, C.; et al.**, (Not in MR)
Dshalalow, Jewgeni On a multichannel transportation loss system with controlled input and controlled service. **89m:60224a**
— Corrections to: "On a multichannel transportation loss system with controlled input and controlled service" [J. Appl. Math. Simulation **1** (1987), no. 1, 41–55]. **89m:60224b**
— On a duality principle in processes of servicing machines with double control. **89m:60225**
Dukhovnyĭ, A. M. Combined feedback in systems with batch arrival and service. (Russian) **89f:60110**
Dvurečenskij, Anatolij On a discrete modified $M/GI/c/\infty$ queue. (Russian and Slovak summaries) **89c:60104**
— (*with* Ososkov, G. A.) On a generalized discrete queueing system with infinitely many servers. **89b:60213**
— Joint distribution of the busy and idle periods of a discrete modified $GI/GI/c/\infty$ queue. (Russian and Czech summaries) **89d:60175**
D′yakonova, E. E. (*with* Belyaev, K. P.) Estimates of the speed of convergence in the limit theorems for batch-processing systems with heavy traffic. **89a:60215**
Elias, S. S. *see* **Mokaddis, G. S.; et al., 89e:60192**
Fakinos, D. Duality relations for certain single server queues. **89m:60226**
Falin, G. I. Multichannel queueing systems with repeated calls under high intensity of repetition. (German and Russian summaries) **89e:60186**
— The convergence of queueing processes in structurally complex systems with losses to stationary processes. (Russian) **89h:60155**
— On a multiclass batch arrival retrial queue. **89g:60279**
— Ergodicity, stability and insensitivity for a class of networks with channel switching. **89j:60126**
— Quasi-input stream for an $M/G/1/\infty$ system. **89k:60133**
Favier, G. Numerically efficient adaptive identification algorithms. (French summary) **89e:93206**
Fayolle, G. (*with* Brun, M. A.) On a system with impatience and repeated calls. **89i:60179**
— *see also* **Baccelli, F., 89b:60168**
Federgruen, Awi (*with* Green, Linda) Queueing systems with service interruptions. **89a:60216**
— (*with* Green, Linda) Queueing systems with service interruptions. II. **89h:60156**
Finkel, David *see* **Gelenbe, Erol, 89a:60217**
Foley, Robert D. (*with* Kiessler, Peter C.) Positive correlations in a three-node Jackson queueing network. **89m:60227**
— *see also* **Kiessler, Peter C.; et al., 89d:60177**
Foucher, J. M. *see* **Proust, C.; et al.**, (Not in MR)
Foucheyrand, E. *see* **Proust, C.; et al.**, (Not in MR)
Fukagawa, Yukinori (*with* Yanaru, Torao; Yoshida, Sho) A queueing system with server's walking-time and serial service. (Not in MR)
Gail, H. R. (*with* Hantler, S. L.; Taylor, B. Alan) Analysis of a nonpreemptive priority multiserver queue. **89i:60180**
Ge, Yu Bo Generalized state-dependent Erlangian queues: the V-sojourn times before the relative arrival times. (Chinese) **89k:60134**
Gelenbe, Erol (*with* Finkel, David) Stationary deterministic flows. II. The single-server queue. **89a:60217**
Ghosal, A. (*with* Madan, Sudhir) Identification of waiting time distribution of $M/G/1$, $M^x/G/1$, $GI^r/M/1$ queueing systems. **89d:60176**
Gillert, H. *see* **Amosova, N. N.; et al., 89a:60207**
Giorno, V. (*with* Nobile, A. G.; Ricciardi, Luigi M.) On some time-nonhomogeneous diffusion approximations to queueing systems. **89a:60218**
Glynn, Peter W. (*with* Iglehart, Donald L.) Simulation methods for queues: an overview. **89k:60135**
Gray, William J. (*with* Scott, Meckinley) An $M/G/1$ type vacation queuing model with exceptional service for certain customers. **89m:60228**
Green, Linda *see* **Federgruen, Awi, 89a:60216; 89h:60156** *and* **Svoronos, Antony, 89h:60162**
Grigelionis, B. (*with* Mikulevičius, R.) Functional limit theorems for queueing systems under heavy traffic. I. (Russian) **89e:60187**
— (*with* Mikulevičius, R.) Functional limit theorems for queueing systems under heavy traffic. II. (Russian. English and Lithuanian summaries) **89e:60188**
Grishechkin, S. A. Investigation of queueing systems with random choice discipline by branching process methods. **89j:60127**
Groenendijk, Wim P. *see* **Boxma, O. J., 89j:60123**
Gulati, H. L. *see* **Heydari, Ahmad Pour Darvish, 89b:60216**
Gupta, P. K. *see* **Mittal, S. P., 89g:60291** *and* **Sharma, B. B.**, (Not in MR)
Halfin, Shlomo *see* **Avi-Itzhak, Benjamin, 89e:90121**
Hanschke, Thomas Explicit formulas for the characteristics of the $M/M/2/2$ queue with repeated attempts. **89a:60219**
Hantler, S. L. *see* **Gail, H. R.; et al., 89i:60180**
Harel, Arie (*with* Zipkin, Paul H.) Strong convexity results for queueing systems. **89a:60220**
Harris, Carl M. (*with* Prabhu, N. U.) Stochastic comparisons for single-server queues. **89b:60214**
— (*with* Marchal, William G.) State dependence in $M/G/1$ server-vacation models. **89g:60280**
Harrison, J. Michael (*with* Williams, Ruth J.) Brownian models of open queueing networks with homogeneous customer populations. **89b:60215**
— Brownian models of queueing networks with heterogeneous customer populations. **89c:60105**
Haviv, Moshe (*with* Ritov, Yakov) The variance of the waiting time in a queueing system with jockeying. **89e:60189**

— (*with* Ritov, Yakov) Erratum: “The variance of the waiting time in a queueing system with jockeying” [Comm. Statist. Stochastic Models **4** (1988), no. 1, 161–182; MR 89e:60189]. **89m:60229**

Heydari, Ahmad Pour Darvish On bulk arrivals in biseries channels linked in series with a common channel. **89e:60190**

— (*with* Gulati, H. L.) On multi-input bi-tandem queue modelling. **89b:60216**

Heyde, C. C. Asymptotic efficiency results for the method of moments with application to estimation for queueing processes. **89i:60181**

Hirayama, Tetsuji Optimal service assignment in a finite-source queue. **89j:90148**

Hooghiemstra, Gerard Comment to: “Asymptotic behaviour of a stopping time related to cumulative sum procedures and single-server queues” [J. Appl. Probab. **24** (1987), no. 1, 200–214; MR 88h:60136] by W. Stadje. **89b:60162**

— A path construction for the virtual waiting time of an $M/G/1$ queue. **89a:60221**

Hordijk, Arie Insensitivity, sensitivity and partial insensitivity for some queueing models. **89k:60136**

Hsu, Lie Fern (*with* Tapiero, Charles S.) Maintenance of an unreliable $M/G/1$ queue-like job shop. **89b:60217**

— (*with* Tapiero, Charles S.) A Bayes approach to quality control of an $M/G/1$ queue. **89b:62209**

Hussain, Tahir (*with* Lone, A. G.; Ikram, Mohd.) On multi-queue with bulk arrivals and service parameters depending upon queue numbers. **89m:60231**

— Queues in series with arrivals and departures in bulks. **89k:60137**

Iasnogorodski, R. *see* **Blanc, J. P. C.; et al., 89e:60184**

Iglehart, Donald L. *see* **Glynn, Peter W., 89k:60135**

Ikeda, Zyūkiti (*with* Nishida, Toshio) Stability of $M/G/1$ queue with balking. **89g:60281**

— (*with* Nishida, Toshio) $M/G/1$ queue with balking. **89m:60232**

Ikram, Mohd. *see* **Hussain, Tahir; et al., 89m:60231**

Iliadis, Ilias (*with* Lien, Luke Y.-C.) Resequencing delay for a queueing system with two heterogeneous servers under a threshold-type scheduling. **89b:60218**

Ivanov, N. N. A queueing system with parallel batch servicing. (Russian. English summary) **89b:60219**

Ivanovskiĭ, V. B. Estimation of the service characteristics of a single-server discrete system from empirical data. (Russian. English summary) **89b:60220**

Jacob, M. J. (*with* Madhusoodanan, T. P.) Transient solution for a finite capacity $M/G^{a,b}/1$ queueing system with vacations to the server. **89k:60138**

— (*with* Madhusoodanan, T. P.) Transient solution of an $M/G/1$ queueing system with group arrivals and vacations to the server. **89m:60233**

Jaffe, Jeffrey M. (*with* Rosberg, Zvi) Maximal throughput in a tandem multi-hop radio network. **89k:68007**

Jagerman, D. Approximations for waiting time in $GI/G/1$ systems. **89c:60106**

Ji, Chuanshu Sequential scheduling of priority queues and arm-acquiring bandits. **89k:60139**

Jin, Xing (*with* Yu, Ke Ming) On the convergence rates for the virtual waiting time of a $GI/G/1$ system. (Chinese. English summary) **89g:60282**

— On Berry-Esseen rate for queue length of the $GI/G/K$ system in heavy traffic. **89i:60182**

Johansen, Helle *see* **Asmussen, Søren, 89j:60122**

Johri, Pravin K. (*with* Katehakis, Michael N.) Scheduling service in tandem queues attended by a single server. **89g:60283**

Kao, Edward P. C. (*with* Chang, Sheng-Lin) Modeling time-dependent arrivals to service systems: a case in using a piecewise-polynomial rate function in a nonhomogeneous Poisson process. (Not in MR)

Karshiev, A. Sh. *see* **Brekhov, O. M., 89f:60107**

Kashyap, B. R. K. *see* **Liu, Liming; et al., 89d:60183**

Katayama, Tsuyoshi A cyclic service tandem queueing model with parallel queues in the first stage. **89m:60234**

— Mean sojourn times in a multi-stage tandem queue served by a single server. (Japanese summary) **89g:60284**

Katehakis, Michael N. *see* **Johri, Pravin K., 89g:60283**

Kaufman, J. S. *see* **Doshi, Bharat, 89k:60132**

Keilson, J. (*with* Servi, L. D.) Dynamics of the $M/G/1$ vacation model. **89g:60285**

— (*with* Ramaswamy, Ravi) The backlog and depletion-time process for $M/G/1$ vacation models with exhaustive service discipline. **89f:60111**

Kella, Offer (*with* Yechiali, Uri) Priorities in $M/G/1$ queue with server vacations. **89b:60221**

Kelly, F. P. On a class of approximations for closed queueing networks. **89m:60236**

Khomichkov, I. I. Calculation of the characteristics of a queueing system with repeated customers and with paired connections. **89g:60286**

Khusanov, M. (*with* Drabkin, L.) The relation between two potentials in the queueing system $M|G|1|\infty$. (Russian) **89g:60287**

(Kiefer, Jack Carl) *see* **Prabhu, N. U., 89a:60228**

Kiessler, Peter C. On the equivalence of input and output processes in networks of infinite server queues. **89g:60288**

— (*with* Melamed, B.; Yadin, M.; Foley, Robert D.) Analysis of a three-node queueing network. **89d:60177**

— *see also* **Disney, Ralph L., 89b:90081** *and* **Foley, Robert D., 89m:60227**

Kijima, Masaaki Distribution properties of discrete characteristics in $M/G/1$ and $GI/M/1$ queues. (Japanese summary) **89i:60183**

King, P. J. B. *see* **Robert, Philippe; et al., 89g:60273**

Knessl, C. (*with* Matkowsky, B. J.; Schuss, Z.; Tier, C.) Busy period distribution in state-dependent queues. **89d:60178**

— (*with* Matkowsky, B. J.; Schuss, Z.; Tier, C.) A state dependent $M/M/1$ queue: a production-inventory model. (Not in MR)

Kogan, Ya. A. (*with* Lyakhov, A. I.) Asymptotic analysis of the capacity of multiprocessor systems with common buses. (Not in MR)

— (*with* Pukhal′skiĭ, A. A.) Tandem queue with finite intermediate waiting room and blocking in heavy traffic. (Russian summary) **89d:60179**

Kolotenko, G. A. (*with* Akhmedov, T. I.) Modeling of dominant systems of space-time connections of the brain by Erlang’s law. (Russian) **89h:92023**

König, Dieter (*with* Miyazawa, Masakiyo) Relationships and decomposition in the delayed Bernoulli feedback queueing system. **89d:60180**

de Koster, M. B. M. Approximate analysis of production systems. **89g:90122**

Kotrutsa, V. P. On an application of the coupling method. (Russian) **89f:60112**

Krämer, Manfred Computational analysis of a finite capacity queueing system with vacations and nonexhaustive service. **89b:60222**

Kreĭnin, A. Ya. *see* **Vaĭnshteĭn, A. D., 89g:60312**

Krichagina, E. V. (*with* Liptser, R. Sh.; Pukhal′skiĭ, A. A.) Diffusion approximation for a system with an arrival stream that depends on the queue and with arbitrary service. **89f:60113**

Kruskal, Clyde P. (*with* Snir, Marc; Weiss, Alan) The distribution of waiting times in clocked multistage interconnection networks. **89k:68008**

Küchler, U. *see* **Amosova, N. N.; et al., 89a:60207**

Kulkarni, V. G. (*with* Nicola, V. F.; Trivedi, K. S.) The completion time of a job on multimode systems. **89a:60223**

Kurbanov, Kh. K. A duality relation in queueing systems. (Russian) **89m:60237**

Kurenkov, B. E. *see* **Basharin, G. P., 89e:90094**

Kuznetsov, N. Yu. An analytic-statistical method for constructing quantitative estimates for the continuity of the characteristics of queueing systems and stand-by systems. (Russian) **89j:60128**

Lai, T. L. Asymptotic solutions of bandit problems. **89c:62139**

Lakatos, László On systems with bulk arrival and group service. I. **89m:60238**

Lalanne, Jean-Christophe Caractérisation de la charge des arêtes du graphe support d’un réseau nodal de commutation temporelle asynchrone. (English summary) [Characterization of the load of the vertices of the support graph of a nodal network for asynchronous time division switching] **89e:90087**

Latouche, Guy Perturbation analysis of a phase-type queue with weakly correlated arrivals. **89i:60184**

Lavenberg, S. S. A perspective on queueing models of computer performance. **89j:68017**

— *see also* **Conway, Adrian E.; et al., 89k:90080**

Le Boudec, Jean-Yves Steady-state probabilities of the $PH/PH/1$ queue. **89d:60181**

Ledak, L. P. (*with* Sushkov, B. G.) Optimal aggregation in a single-server problem. (Russian) (*see* **89e:68058**)

Le Gall, Pierre Some comments on the work of J. W. Cohen and new results in the theory of queueing networks. **89m:60239**

Li, Tze Fen The cycle time distribution of exponential cyclic queues with multiple servers. **89a:60224**

Li, Wen Qi On the proof of L. Takács’ lemma for the $M/G/1$ stochastic queueing system. (Chinese. English summary) **89c:60108**

Lien, Luke Y.-C. *see* **Iliadis, Ilias, 89b:60218**

Liese, Friedrich *see* **Danielyan, È. A., 89d:60173**

Liptser, R. Sh. *see* **Krichagina, E. V.; et al., 89f:60113**

Litvinenko, A. E. *see* **Zakusilo, O. K., 89a:68017**

Liu, Ke Moment estimates of parameters in $E_k/E_l/c$ queueing systems. (Chinese) **89d:60182**

Liu, Liming (*with* Kashyap, B. R. K.; Templeton, J. G. C.) The service system $M/M^R/\infty$ with impatient customers. **89d:60183**

Logunov, M. G. (*with* Signaevskiĭ, V. A.) A system with two queues and alternating service. (Russian. English summary) **89b:60223**

Lone, A. G. *see* **Hussain, Tahir; et al., 89m:60231**

Loris-Teghem, Jacqueline Vacation policies in an $M/G/1$ type queueing system with finite capacity. **89j:60129**

Louchard, G. Large finite population queueing systems. I. The infinite server model. **89i:60185**

Lucantoni, D. M. *see* **Ramaswami, V., 89g:60294**

Lukashuk, L. I. Diffusion approximation of a network of Markov service systems under subcritical traffic. (Russian. English summary) **89g:60290**

Lyakhov, A. I. *see* **Kogan, Ya. A.**, (Not in MR)

Machihara, Fumiaki $\sum GI^{[X_i]}/M/S/K$ queues with mixed batch renewal inputs. **89i:60186**

— First passage times of $PH/PH/1/K$ and $PH/PH/1$ queues. (Japanese summary) **89b:60224**

— On the overflow processes from the $PH_1 + PH_2/M/S/K$ queue with two independent PH-renewal inputs. **89f:60114**

Madan, Sudhir *see* **Ghosal, A., 89d:60176**

Madhusoodanan, T. P. *see* **Jacob, M. J., 89k:60138** *and* **89m:60233**

Madill, B. R. *see* **Chaudhry, M. L.; et al., 89g:60278**

Makarichev, A. V. An optimal servicing discipline in a multiphase system. (Russian. English summary) **89m:60240**

Makowski, Armand M. *see* **Baccelli, F., 89i:60178**

Maksimov, Yu. D. *see* **Amosova, N. N.; et al., 89a:60207**

Malinkovskiĭ, Yu. V. Multiplicativity of a stationary distribution of states for a class of queueing networks. **89i:60187**

Marchal, William G. *see* **Harris, Carl M., 89g:60280**

Matkowsky, B. J. *see* **Knessl, C.; et al., 89d:60178** *and* (Not in MR)

McKenna, James Asymptotic expansions of the sojourn time distribution functions of jobs in closed, product-form queuing networks. **89a:68016**

McNickle, D. C. Comment on: “The asymptotic behaviour of the service process for a critically loaded queueing system with a single server” [Tamkang J. Management Sci. 7 (1986), no. 2, 49–54; MR 87k:60233] by G. S. Mokaddis. **89e:60191**

Medhi, J. *see* **Chaudhry, M. L.; et al., 89a:60212**

Melamed, B. *see* **Kiessler, Peter C.; et al., 89d:60177**

Metwally, S. A. *see* **Mokaddis, G. S.; et al., 89e:60192**

Migalko, N. A. *see* **Brodi, S. M., 89j:60124**

Mikadze, I. S. A queueing system with several functioning states. (Russian. English summary) **89b:60225**

Mikulevičius, R. *see* **Grigelionis, B., 89e:60187** *and* **89e:60188**

Mitrani, I. Multiprocessor systems with reserves and preferences. **89h:60152**

— *see also* **Robert, Philippe; et al., 89g:60273** *and* **Coffman, E. G., Jr., 89m:60219**

Mittal, S. P. (*with* Gupta, P. K.) Effect of twin births on the Markovian queue system $M/M/\infty$. **89g:60291**

Miyazawa, Masakiyo (*with* Yamazaki, Genji) The basic equations for a supplemented GSMP and its applications to queues. **89m:60209**

— *see also* **König, Dieter, 89d:60180**

Mokaddis, G. S. (*with* Zaki, S. S.) The limit distribution for a single server queueing system with finite waiting places. **89a:60225**

— The joint distribution of the busy and free periods of the mass service system. **89g:60292**

— (*with* Elias, S. S.; Metwally, S. A.; Soliman, E. A.) Three queues in parallel. **89e:60192**

— *see also* **Chaudhry, M. L., 89e:60185** *and* **McNickle, D. C., 89e:60191**

Morrison, John A. Conditioned response-time distribution for a large closed processor-sharing system with multiple classes in very heavy usage. **89j:60130**

Mukherjee, S. P. *see* **Chatterjee, U., 89f:60108**

Nagapetyan, R. Sh. A priority system for batch processing. (Russian. Armenian summary) **89g:60293**

Nain, Ph. *see* **Blanc, J. P. C.; et al., 89e:60184**

Naumova, E. O. Formulas for the variances of statistical estimates of characteristics for a single-server system with repeated calls. (Russian) (*see* **89m:94001**)

Neuts, Marcel F. Profile curves for the $M/G/1$ queue with group arrivals. **89i:60188**

Nicola, V. F. *see* **Kulkarni, V. G.; et al., 89a:60223**

Nishida, Toshio *see* **Ikeda, Zyūkiti, 89g:60281** *and* **89m:60232**

Niu, Shun Chen Representing workloads in $GI/G/1$ queues through the preemptive-resume LIFO queue discipline. **89d:60184**

Nobile, A. G. *see* **Giorno, V.; et al., 89a:60218**

Novikov, M. M. *see* **Turbin, A. F., 89e:60196**

(van Nunen, J. A. E. E.) *see* **Puterman, Martin L., 89c:60110**

Ososkov, G. A. *see* **Dvurečenskij, Anatolij, 89b:60213**

Ott, Teunis J. Simple inequalities for the $D/G/1$ queue. **89h:60157**

Pagurek, B. *see* **Stanford, D. A.; et al., 89f:60116**

Papaconstantinou, Xenophon *see* **Bertsimas, Dimitris, 89b:60207**

Parekh, Shyam (*with* Walrand, Jean) Quick simulation of excessive backlogs in networks of queues. **89c:60109**

Parthasarathy, P. R. A transient solution to an $M/M/1$ queue: a simple approach. **89h:60158a**

— *see also* **Syski, R., 89h:60158b**

Paul, D. W. Randomized formal systems for specifying discrete stochastic models. **89d:00020**

Pearce, C. E. M. On the problem of re-attempted calls in teletraffic. **89d:60185**

Pechinkin, A. V. Limits on stationary queue length under various service disciplines. **89i:60189**

Pflug, Georg Ch. Derivatives of probability measures: concepts and applications to the optimization of stochastic systems. **89j:60062**

Phelan, Michael J. (*with* Prabhu, N. U.) Estimation from an infinite server queueing system with two demands. **89i:60190**

Popov, G. A. Domains of analyticity of Laplace-Stieltjes transforms of busy periods in $\vec{M}_r/\vec{G}_r/I/\infty$ systems. (Russian) **89k:60140**

Pósafalvi, A. (*with* Sztrik, J.) On the $\langle (m,n)(\vec{M}/\vec{M})1\rangle$ priority queues and their applications. (Russian summary) **89a:60227**

Postan, M. Ya. ★ Применение марковских процессов для моделирования систем обслуживания встречных транспортных потоков. (Russian) [Application of Markov processes for the modeling of systems for servicing transportation flows coming from opposite directions] **89k:90047**

Pourbabai, Behnam Asymptotic analysis of $G/G/K$ queueing-loss system with retrials and heterogeneous servers. **89e:60193**

Prabhu, N. U. Comments on two papers by Jack Carl Kiefer and J. Wolfowitz on queueing theory: "On the theory of queues with many servers" [Trans. Amer. Math. Soc. **78** (1955), 1–18; MR **16**, 601] and "On the characteristics of the general queueing process with applications to random walk" [Ann. Math. Statist. **27** (1956), 147–161; MR **17**, 980]. **89a:60228**

— A bibliography of books and survey papers on queueing systems: theory and applications. **89d:60186**

— *see also* **Harris, Carl M., 89b:60214; Phelan, Michael J., 89i:60190** *and* **Basawa, I. V., 89m:60217**

Prizva, G. I. Some characteristics of an $M|G|1|\infty$ system with batch arrival and an unreliable server. (Ukrainian. Russian summary) **89i:60191**

Proust, C. (*with* Drogou, M.; Foucher, J. M.; Foucheyrand, E.) Une heuristique pour le problème d'ordonnancement statique de type n/m flowshop, avec prise en compte des temps de montage et démontage d'outils. (English summary) [A heuristic for the n/m flowshop static scheduling problem, with setup and removal times taken into account] (Not in MR)

Pukhal'skiĭ, A. A. *see* **Kogan, Ya. A., 89d:60179** *and* **Krichagina, E. V.; et al., 89f:60113**

Puterman, Martin L. (*with* Thomas, Lyn C.) A note on: "Computing optimal control limits for $GI/M/s$ queueing systems with controlled arrivals" [Management Sci. **29** (1983), no. 6, 725–734; MR 85b:60092] by J. A. E. E. van Nunen and Puterman. **89c:60110**

— *see also* **van Dijk, Nico M., 89h:60108**

Radian, Eugen On the Markov renewal character of some queueing systems. **89a:60205**

Ramaswami, V. A stable recursion for the steady state vector in Markov chains of $M/G/1$ type. **89d:60187**

— (*with* Lucantoni, D. M.) Moments of the stationary waiting time in the $GI/PH/1$ queue. **89g:60294**

Ramaswamy, Ravi *see* **Keilson, J., 89f:60111**

Rego, Vernon Some explicit formulas for mixed exponential service systems. **89k:60141**

Regterschot, G. J. K. *see* **van Doorn, Erik A., 89j:60125**

Reiman, Martin I. (*with* Simon, Burton; Weiss, Alan; Willie, J. Stanford) The application of likelihood ratio based derivative estimates in interpolation approximations for queueing systems. **89h:60159**

— A multiclass feedback queue in heavy traffic. **89d:60188**

— (*with* Simon, Burton) Light traffic limits of sojourn time distributions in Markovian queueing networks. **89k:60142**

Rembowski, Bogdan Feedback queueing network—statistical properties of customer streams and approximate solutions. (Polish. English summary) (Not in MR)

Ricciardi, Luigi M. *see* **Giorno, V.; et al., 89a:60218**

Ritov, Yakov *see* **Haviv, Moshe, 89e:60189** *and* **89m:60229**

Robert, Philippe (*with* Mitrani, I.; King, P. J. B.) An intermittently served discrete time queue with applications to meteor scatter communications. **89g:60273**

Rolski, Tomasz Approximation of periodic queues. **89c:60111**

— Relationships between characteristics in periodic Poisson queues. **89k:60143**

Rosberg, Zvi Bounds on the expected waiting time in a $GI/G/1$ queue: upgrading for low traffic intensity. **89b:60226**

— *see also* **Jaffe, Jeffrey M., 89k:68007**

Ross, Keith W. (*with* Yao, David D.) Optimal dynamic scheduling in Jackson networks. **89j:90151**

Saakyan, V. G. *see* **Danielyan, È. A.,** (Not in MR)

Saito, Hiroshi^3 The output of loss systems with general service time distributions. **89k:60144**

Sardaryan, S. G. On the priority level in a linear parametric model. (Russian. Armenian summary) **89k:60145**

Sarma, Yadavalli V. S. A $G/0/G$-system with slow switch. **89k:90075**

Schruben, Lee W. (*with* Yucesan, Enver) Transaction tagging in highly congested queueing simulations. **89i:68003**

Schuss, Z. *see* **Knessl, C.; et al., 89d:60178** *and* (Not in MR)

Schweitzer, Paul J. *see* **Seidmann, Abraham; et al.,** (Not in MR)

Scott, Meckinley *see* **Gray, William J., 89m:60228**

Seidmann, Abraham (*with* Schweitzer, Paul J.; Shalev-Oren, Sarit) Computerized closed queueing network models of flexible manufacturing systems: a comparative evaluation. (Not in MR)

Semeshko, E. A. *see* **Timofeev, B. B., 89a:60233**

Sengupta, Bhaskar The due date process. **89e:60194**

— Sojourn time distributions for the $M/M/1$ queue in a Markovian environment. **89a:60229**

Serfozo, Richard F. Equitable transit charges for multi-administration telecommunications networks. **89b:90082**

— Extreme values of queue lengths in $M/G/1$ and $GI/M/1$ systems. **89m:60241**

— Extreme values of birth and death processes and queues. **89f:60100**

Servi, L. D. *see* **Keilson, J., 89g:60285**

Shalev-Oren, Sarit *see* **Seidmann, Abraham; et al.,** (Not in MR)

Shanthikumar, J. George Stochastic majorization of random variables with proportional equilibrium rates. **89b:60040**

— (*with* Sumita, Ushio) Convex ordering of sojourn times in single-server queues: extremal properties of FIFO and LIFO service disciplines. **89c:60112**

— (*with* Yao, David D.) Stochastic monotonicity of the queue lengths in closed queueing networks. **89h:60160**

— On stochastic decomposition in $M/G/1$ type queues with generalized server vacations. **89g:60295**

— (*with* Yao, David D.) On server allocation in multiple center manufacturing systems. **89g:90123**

— (*with* Yao, David D.) Throughput bounds for closed queueing networks with queue-dependent service rates. **89k:60146**

Sharma, B. B. (*with* Gupta, P. K.) Markovian queueing model—a case study. (Not in MR)

Sharma, Om Prakash (*with* Shobha, B.) On the busy period of an $M|M|1|N$ queue. **89g:60296**

— (*with* Shobha, B.) Transient behaviour of a double-channel Markovian queue with limited waiting space. **89c:60113**

— (*with* Dass, J.) Transient analysis of an $M/M/r$ machine interference model. **89k:60147**

Shepp, L. A. *see* **Aldous, David, 89h:60115**

Shobha, B. *see* **Sharma, Om Prakash, 89c:60113** *and* **89g:60296**

Sidi, Moshe Two competing discrete-time queues with priority. **89m:60242**

Sigman, Karl Regeneration in tandem queues with multiserver stations. **89d:60189**

— Queues as Harris recurrent Markov chains. **89d:60190**

Signaevskiĭ, V. A. *see* **Logunov, M. G., 89b:60223**

Sim, S. H. *see* **Chaudhry, M. L.; et al., 89a:60212**

Simon, Burton *see* **Reiman, Martin I.; et al., 89h:60159** *and* **89k:60142**

Singh, K. Bidhi Cost analysis of a queueing system with two service facilities. (French summary) **89h:60161**

Sityuk, V. N. Asymptotic behavior of a queueing system with batch arrival of customers under conditions of inhomogeneous random perturbations. (Russian) **89f:60115**

Sivasamy, R. A non-preemptive priority queueing model with thresholds for the acceptance of nonpriority units in to service. **89e:60195**

Sjogren, J. A. Iterative methods in the solution of dependability models. **89m:60174**

Snir, Marc *see* **Kruskal, Clyde P.; et al., 89k:68008**

Soliman, E. A. *see* **Mokaddis, G. S.; et al., 89e:60192**

Solodyannikov, Yu. V. Robust nonparametric estimation of the characteristics of queueing systems. **89g:62064**

de Souza e Silva, Edmundo *see* **Conway, Adrian E.; et al., 89k:90080**

Srinivasan, Mandyam M. On extending the scope of bounding techniques for closed queueing networks. **89f:90059**

Srinivasan, S. K. Analysis of s,S inventory systems with general lead time and demand distribution and adjustable reorder size. **89j:90087**

Stadje, W. Some exact expressions for the bulk-arrival queue $M^X/M/1$. **89m:60243**

— *see also* **Hooghiemstra, Gerard, 89b:60162**

Stanford, D. A. (*with* Pagurek, B.; Woodside, C. M.) The serial correlation coefficients for waiting times in the stationary $GI/M/m$ queue. **89f:60116**

Stidham, Shaler, Jr. Scheduling, routing, and flow control in stochastic networks. **89b:60228**

Strusevich, V. A. Minimization of total queueing time for a system with nonfixed routes. (Russian) **89a:60230**

Sulanke, H. (*with* Arndt, Klaus) A conservation law for queueing systems with batch arrivals. (German and Russian summaries) **89m:60244**

— *see also* **Brandt, Andreas, 89f:60106a** *and* **89f:60106b**

Sumita, Ushio *see* **Shanthikumar, J. George, 89c:60112**

Sushkov, B. G. *see* **Ledak, L. P., (89e:68058)**

Svoronos, Antony (*with* Green, Linda) A convexity result for single-server exponential loss systems with nonstationary arrivals. **89h:60162**

Syski, R. Further comments on the solution of the $M/M/1$ queue. Comment on: "A

transient solution to an $M/M/1$ queue: a simple approach" [Adv. in Appl. Probab. 19 (1987), no. 4, 997–998; MR 89h:60158a] by P. R. Parthasarathy. **89h:60158b**
— *see also* **Queueing theory and its applications, 89e:60004**
Szekli, R. On the complete monotonicity of the waiting time density in some $GI/G/k$ systems. **89a:60231**
Szpankowski, Wojciech Stability conditions for multidimensional queueing systems with computer applications. **89k:60148**
Sztrik, J. On the $\langle n/\overrightarrow{G}/M/1\rangle$ queues and Erlang's loss formulas. **89i:60192**
— *see also* **Pósafalvi, A., 89a:60227**
Taaffe, Michael R. (*with* Clark, Gordon M.) Approximating nonstationary two-priority nonpreemptive queueing systems. **89a:60232**
Takagi, Hideaki Queuing analysis of polling models. **89f:68001**
Takahashi, Haruhisa (*with* Akimaru, Haruo) A formula for mean queue length of $GI_1GI_2/GI_1GI_2/1$ preemptive-resume priority queues. **89i:60193**
Taneja, Hans Raj Multi-input tandem queueing under priority service rule. **89h:60163**
Tapiero, Charles S. *see* **Hsu, Lie Fern, 89b:60217** *and* **89b:62209**
Taylor, B. Alan *see* **Gail, H. R.; et al., 89i:60180**
Teghem, J., Jr. Optimal control of a removable server in an $M/G/1$ queue with finite capacity. **89b:60229**
Templeton, J. G. C. *see* **Chaudhry, M. L.; et al., 89a:60212; Yang, Tao, 89b:60232** *and* **Liu, Liming; et al., 89d:60183**
Terzikyan, G. A. On a recurrent procedure for determining the waiting times in an $\vec{M}_r/\vec{G}_r/1/\infty$ model with absolute priorities. (Russian. Armenian summary) **89b:60230**
Thomas, Lyn C. *see* **Puterman, Martin L., 89c:60110**
Tian, Nai Shuo An inhomogeneous discrete-time queue with infinitely many servers. (Chinese) **89m:60245**
Tier, C. *see* **Knessl, C.; et al., 89d:60178** *and* (Not in MR)
Tikhonenko, O. M. Distribution of the total volume of messages in a queueing system with group arrival. (Russian. English summary) **89b:60231**
— The problem of determination of the summarized messages volume in queueing systems and its applications. (German and Russian summaries) **89h:60164**
Timofeev, B. B. (*with* Semeshko, E. A.) Invariance of the mean number of customers in priority queueing systems with a finite source. (Russian. English summary) **89a:60233**
Todor, Fabian *see* **Dahan, Simon, 89b:60211**
Topolski, K. Conditioned limit theorem for virtual waiting time process of the $GI/G/1$ queue. **89k:60149**
Tran-Gia, P. A class of renewal interrupted Poisson processes and applications to queueing systems. (German summary) **89d:60160**
Trivedi, K. S. *see* **Kulkarni, V. G.; et al., 89a:60223**
Tsitsiashvili, G. Sh. Stability of queueing networks. **89g:60297**
Turbin, A. F. (*with* Novikov, M. M.) Stationary characteristics of a $GI|G|2|0$ queueing system. (Russian) **89e:60196**
Vaĭnshteĭn, A. D. (*with* Kreĭnin, A. Ya.) Transformations of the Poisson flow and their application to communication systems. (Russian) **89g:60312**
van der Wal, Jan *see* **van Dijk, Nico M., 89m:60223**
Walrand, Jean *see* **Parekh, Shyam, 89c:60109**
Wang, Rong Xin (*with* Wu, Yun Jiang) Weak convergence of a queueing system for HL and PRE priority disciplines. (Chinese. English summary) **89m:60246**
Weiss, Alan *see* **Reiman, Martin I.; et al., 89h:60159** *and* **Kruskal, Clyde P.; et al., 89k:68008**
Wessels, Jaap *see* **van Doremalen, Jan, 89k:60131**
Whitt, Ward *see* **Abate, Joseph, 89e:60178; 89g:60275** *and* **89m:60214**
Williams, Ruth J. *see* **Harrison, J. Michael, 89b:60215**
Willie, J. Stanford *see* **Reiman, Martin I.; et al., 89h:60159**
Willmot, Gordon E. A note on the equilibrium $M/G/1$ queue length. **89g:60298a**
— Letter to the editor. Comment on: "A note on the equilibrium $M/G/1$ queue length". **89g:60298b**
Wolff, Ronald W. Upper bounds on work in system for multichannel queues. **89a:60234**
(Wolfowitz, J.) *see* **Prabhu, N. U., 89a:60228**
Woodside, C. M. *see* **Stanford, D. A.; et al., 89f:60116**
Wu, Yun Jiang *see* **Wang, Rong Xin, 89m:60246**
Yadin, M. *see* **Kiessler, Peter C.; et al., 89d:60177**
Yamazaki, Genji *see* **Miyazawa, Masakiyo, 89m:60209**
Yanaru, Torao *see* **Fukagawa, Yukinori; et al.,** (Not in MR)
Yang, Tao (*with* Templeton, J. G. C.) A survey of retrial queues. **89b:60232**
Yao, David D. *see* **Shanthikumar, J. George, 89g:90123; 89h:60160; Ross, Keith W., 89j:90151** *and* **Shanthikumar, J. George, 89k:60146**
Yechiali, Uri *see* **Kella, Offer, 89b:60221**
Yoshida, Sho *see* **Fukagawa, Yukinori; et al.,** (Not in MR)
Yu, Ke Ming *see* **Jin, Xing, 89g:60282**
Yucesan, Enver *see* **Schruben, Lee W., 89i:68003**
Yushkevich, A. A. Application of Bellman inequalities to the control of a queueing system. (Russian) **89f:60117**
Zaki, S. S. *see* **Mokaddis, G. S., 89a:60225**
Zakusilo, O. K. (*with* Litvinenko, A. E.) Optimization of the operation of a computer network by queueing theory methods. (Russian) **89a:68017**
Zipkin, Paul H. *see* **Harel, Arie, 89a:60220**

Items listed otherwise than by author

Birthday:
Cohen, Jacob Willem ★ Queueing theory and its applications. **89e:60004**
Queueing theory and its applications ★ Queueing theory and its applications. **89e:60004**

90B25 Reliability and maintenance [see also 60K20, 62N05]

Anderson, Robert Frank Replacement with nonconstant operating cost. **89k:90070**
Ariyoshi, Hiromu *see* **Higashiyama, Youichi,** (Not in MR)
Assaf, David (*with* Shanthikumar, J. George) Optimal group maintenance policies with continuous and periodic inspections. **89g:90113**
Ball, Michael O. (*with* Provan, J. Scott) Disjoint products and efficient computation of reliability. **89k:90071**
Bandyopadhyay, Subir *see* **Sen Gupta, Abhijit; et al., 89h:90115**
Banjević, Dragan M. (*with* Nedeljković, Ranko R.) On some observing and replacement policies. **89e:90108**
Baran, Robert H. *see* **Coughlin, James P., (89d:00007)**
Baxter, Laurence A. On the theory of cannibalization. **89m:90073**
— *see also* **Kim, Chul, 89c:90056**
Biswas, Suddhendu (*with* Nair, Gurprit) A palm probabilistic technique on the estimation of the expected time to failure at a specified shock based on the data of earlier shocks. (Not in MR)
Bogdantsev, E. N. Semi-Markov models in the operation of engineering systems. (Russian) (*see* **89j:90164**)
Bontaş, Silvia Un model de Markov de la fiabilité des systèmes à quatre états. (English summary) [A Markov model of reliability for four-state systems] **89k:90072**
Bueno, Vanderlei Costa A note on the component lifetime estimation of a multistate monotone system through the system lifetime. **89j:90131**
Chan, F. Y. (*with* Chan, Lai Kow; Lin, Kuo Tung) On consecutive-*k*-out-of-*n*: *F* systems. **89e:90109**
Chan, Lai Kow *see* **Chan, F. Y.; et al., 89e:90109**
Chen, Chang Xiang A double logarithm procedure for dividing the life cycle of a product. (Chinese. English summary) **89h:90109**
Chen, Ming Hui (*with* Fan, Wei Min) Strict optimum confidence bounds on the reliability of a complex system with exponential component lives. (Chinese. English summary) **89e:90110**
Cheng, T. C. E. Optimal replacement planning by geometric programming. **89a:90062**
Chiang, Dalen *see* **Flynn, James; et al., 89e:90111**
Chung, Chia-Shin *see* **Flynn, James; et al., 89e:90111**
Coughlin, James P. (*with* Baran, Robert H.) Stochastic models of information obsolescence. (*see* **89d:00007**)
Dai, Shu Sen Fiducial limits of the mission reliability of repairable systems. (Chinese. English summary) **89f:90067**
Das, Sunil R. Adaptive scheduled experimentation and fault location in large combinational logic networks. (Not in MR)
Delgado, M. (*with* Moral, S.) Reliability concepts under the theory of evidence. **89h:90110**
Dhillon, Balbir S. (*with* Rayapati, Subramanyam N.) Human error modelling of parallel and standby redundant systems. (Not in MR)
Du, Ding Zhu When is a monotonic grouping optimal. **89h:90111**
Elias, S. S. *see* **Mokaddis, G. S.; et al., 89d:90106**
Erfle, Walter ★ Die Optimierung der Kontrolle regelmäßig wiederkehrender Arbeitsprozesse. (German) [The optimization of the control of regularly recurring work processes] **89g:90114**
Fan, Wei Min *see* **Chen, Ming Hui, 89e:90110**
Figurski, Jan Cybernetics of preventive replacements in NNUD devices. (Polish. English and Russian summaries) (Not in MR)
Flynn, James (*with* Chung, Chia-Shin; Chiang, Dalen) Optimal replacement policies for a multicomponent reliability system. **89e:90111**
Fukazawa, Fumio *see* **Tanino, Tetsuzo, 89e:90117**
Genis, Ya. G. Indices of suitability for repair and the coefficient of readiness of standby systems for various renewal disciplines. (Not in MR)
Goulden, I. P. Generating functions and reliabilities for consecutive-*k*-out-of-*n* systems. **89d:90104**
Grace, R. Esther *see* **Rangan, A., 89g:90117**
Graves, Stephen C. Determining the spares and staffing levels for a repair depot. (Not in MR)
Gubonin, N. S. An estimate of the probability of failure in a system with preventive maintenance at random moments in time. **89m:90074**
Guo, Yu Qing *see* **Yu, Kai, 89j:90138**
van der Heijden, M. C. (*with* Schornagel, A.) Interval uneffectiveness distribution for a *k*-out-of-*n* multistate reliability system with repair. **89e:90112**
Heilpern, Stanisław Fuzzy sets and reliability. **89h:90112**
Higashiyama, Youichi (*with* Ariyoshi, Hiromu) A method for reducing the number of product terms in a symbolic reliability expression. (Not in MR)
Hopp, Wallace J. (*with* Wu, Sung-Chi) Multiaction maintenance under Markovian deterioration and incomplete state information. **89k:90073**
Hwang, F. K. *see* **Zhang, Xian Mo; et al., 89g:90121**
Ibaraki, Toshihide *see* **Morioka, Tsutomu; et al., 89e:90116**
Imase, Makoto *see* **Soneoka, Terunao; et al., 89m:90079**
Inoue, Koichi *see* **Tanaka, Tsunehiko; et al., (89f:00029)**
Ishida, Yoshiteru (*with* Tokumaru, Hidekatsu) Diagnosis model for dynamical systems. I. Discrete system. **89i:90038**
— (*with* Tokumaru, Hidekatsu) Diagnosis model for dynamical systems. II. Continuous system. **89i:90039**
Itoh, Takafumi *see* **Ohta, Yoshito; et al., 89i:90040**
Joensson, Dieter Amplitude distribution independent prediction of fatigue life. (German summary) **89m:90075**
Karpiński, Janusz Checking policy for deteriorating multistate systems. **89b:90093**
Kawai, Hajime (*with* Tanaka, Ken-ichi) Replacement problem with variance criterion. **89e:90113**
Kijima, Masaaki (*with* Morimura, Hidenori; Suzuki, Yasusuke) Periodical replacement problem without assuming minimal repair. **89g:90115**
Kim, Chul (*with* Baxter, Laurence A.) Axiomatic characterizations of continuum structure functions. **89c:90056**
Kodama, Shinzo *see* **Ohta, Yoshito; et al., 89i:90040**
Kolesov, N. V. The diagnosis of linear discrete time-dependent systems. (Not in MR)
Kolev, Nikolaĭ V. An optimal control problem with implicit breakdowns and relation with distributions of order K. **89g:90116**
Korolyuk, V. S. (*with* Vavrikovich, L. V.) Diffusion approximation of a restorable stand-by Markov system. **89k:90074**
Kotlyar, V. Yu. The optimal period of time for the maintenance of a system. (Russian) (*see* **89b:90004**)
Kredentser, B. P. (*with* Sidorov, L. A.) A model for systems reliability with a combined

slack time and a random utilization mode. **89j:90132**

Kubat, Peter Assessing reliability of modular software. **89m:90076**

Kulik, A. S. *see* **Salyga, V. I.; et al., 89m:90078**

Kumamoto, Hiromitsu *see* **Tanaka, Tsunehiko; et al.**, (**89f:00029**)

Labib, S. W. *see* **Mokaddis, G. S.; et al., 89d:90106**

Lahiri, Somdeb Optimal maintenance policy and life of machines subject to time varying rate of depreciation. **89j:90133**

Lakaev, A. S. Justification of the linear complexity of calculations of the reliability characteristics of networks with ordinary structure. (Russian. English summary) (Not in MR)

Lam, Yeh A note on the optimal replacement problem. **89d:90105**

Leow, Soo Kar (*with* McAllister, David F.) Optimal assignments of versions to processors in fault-tolerant computer systems. **89e:90114**

Liao, Jiong Sheng A formal theory of binary noncoherent systems. (Chinese. English summary) **89m:90077**

Lin, Kuo Tung *see* **Chan, F. Y.; et al., 89e:90109**

Lin, Zhong Min Development and applications of the theory of structural reliability. (Chinese) (Not in MR)

Maeda, Hajime *see* **Ohta, Yoshito; et al., 89i:90040**

Manabe, Yoshifumi *see* **Soneoka, Terunao; et al., 89m:90079**

Massoumnia, Mohammad-Ali (*with* Vander Velde, Wallace E.) Generating parity relations for detecting and identifying control system component failures. (Not in MR)

Mazumdar, Mainak Power system reliability: an overview. **89e:90115**

McAllister, David F. *see* **Leow, Soo Kar, 89e:90114**

Misra, K. B. On optimal reliability design: a review. (Russian and Polish summaries) (Not in MR)

Miyamoto, Shunsuke *see* **Ohashi, Mamoru, 89b:90094**

Mokaddis, G. S. (*with* Elias, S. S.; Labib, S. W.) On a two-unit standby redundant system subject to repair and preventive maintenance. **89d:90106**

Moral, S. *see* **Delgado, M., 89h:90110**

Morimura, Hidenori *see* **Kijima, Masaaki; et al., 89g:90115**

Morioka, Tsutomu (*with* Ohnishi, Masamitsu; Ibaraki, Toshihide) Optimal inspection and replacement problem of Markovian deterioration system and its computational algorithms. **89e:90116**

Murthy, D. N. P. (*with* Nguyen, D. G.) An optimal repair cost limit policy for servicing warranty. (*see* **89d:00007**)

— *see also* **Nguyen, D. G., 89j:90134**

Nair, Gurprit *see* **Biswas, Suddhendu**, (Not in MR)

Nakagawa, Toshio *see* **Nishi, Kenjiro; et al., 89a:90063**

Nedeljković, Ranko R. *see* **Banjević, Dragan M., 89e:90108**

Nguyen, D. G. (*with* Murthy, D. N. P.) Failure free warranty policies for nonrepairable products: a review and some extensions. (French summary) **89j:90134**

— *see also* **Murthy, D. N. P.**, (**89d:00007**)

Nishi, Kenjiro (*with* Nakagawa, Toshio; Sawa, Yoshiya) A summary of optimum replacement policies for an intermittently used system. **89a:90063**

Obruchev, V. L. *see* **Salyga, V. I.; et al., 89m:90078**

Ohashi, Mamoru (*with* Miyamoto, Shunsuke) Monotone optimal maintenance policy for Markovian deteriorating system with minimal repair. **89b:90094**

Ohnishi, Masamitsu *see* **Morioka, Tsutomu; et al., 89e:90116**

Ohta, Yoshito (*with* Maeda, Hajime; Kodama, Shinzo; Itoh, Takafumi) Fault diagnosis of compartmental systems. **89i:90040**

Özekici, Süleyman (*with* Papazyan, Talin) Inspection policies and processes for deteriorating systems subject to catastrophic failure. **89j:90135**

— Optimal periodic replacement of multicomponent reliability systems. (Not in MR)

Papastavridis, S. A Weibull limit for the reliability of a consecutive k-within-m-out-of-n system. **89h:90113**

Papazyan, Talin *see* **Özekici, Süleyman, 89j:90135**

Piasecki, Stanisław Limit intensity of the utilization of a vehicle fleet as a function of the capacity of the maintenance system. (Russian. English and Lithuanian summaries) (Not in MR)

— The process of utilization and maintenance of a device. (Polish. English and Russian summaries) (Not in MR)

Piskunov, A. I. A structural approach to the analysis of fuzzily formalized systems. I. Equivalent transformations of fuzzily formalized systems. (Not in MR)

Pittenger, A. O. Monotonicity in a Markov decision process. **89f:90068**

Polyakov, V. V. Increasing the reliability of decision-making under fuzzy conditions. (Russian) (*see* **89c:00014**)

Prasad, M. S. (*with* Rattihalli, S. R.) Optimum repair limit replacement policy when the lifetime depends on the number of repairs. **89b:90095**

Provan, J. Scott *see* **Ball, Michael O., 89k:90071**

Rangan, A. (*with* Grace, R. Esther) A non-Markov model for the optimum replacement of self-repairing systems subject to shocks. **89g:90117**

Rattihalli, S. R. *see* **Prasad, M. S., 89b:90095**

Rayapati, Subramanyam N. *see* **Dhillon, Balbir S.**, (Not in MR)

Reinschke, K. J. (*with* Ushakov, I. A.) ★ Zuverlässigkeitsstrukturen. (German) [Reliability structures] **89h:90114**

Rodrigues Dias, J. Correspondence of results concerning the periodic inspection of systems and a nonperiodic inspection policy. (Portuguese. English summary) **89g:90118**

Rohlicek, Jan Robin (*with* Willsky, Alan S.) The reduction of perturbed Markov generators: an algorithm exposing the role of transient states. **89g:90119**

Salyga, V. I. (*with* Sirodzha, I. B.; Kulik, A. S.; Obruchev, V. L.) Synthesis of fault-tolerant dynamic control systems with fault identification. (Russian summary) **89m:90078**

Sarma, Yadavalli V. S. A $G/0/G$-system with slow switch. **89k:90075**

Sawa, Yoshiya *see* **Nishi, Kenjiro; et al., 89a:90063**

Schornagel, A. *see* **van der Heijden, M. C., 89e:90112**

Sen, Arunabha *see* **Sen Gupta, Abhijit; et al., 89h:90115**

Sen Gupta, Abhijit (*with* Sen, Arunabha; Bandyopadhyay, Subir) Complexity of the diagnosability problem for a general model of diagnosable systems. **89h:90115**

Shanthikumar, J. George *see* **Assaf, David, 89g:90113**

Shi, Ding Hua Some new suggestions on defining a multistate coherent system. (Chinese) (Not in MR)

— *see also* **Yan, Chun Ning, 89k:90079**

Shukla, Sindhu *see* **Singh, H. R.; et al.**, (Not in MR)

Sidorov, L. A. *see* **Kredentser, B. P., 89j:90132**

Singh, H. R. (*with* Singh, Shailendra Kumar; Shukla, Sindhu) Reliability and availability analysis of a complex system with two types of repair. (Not in MR)

Singh, Shailendra Kumar *see* **Singh, H. R.; et al.**, (Not in MR)

Singhal, S. (*with* Thompson, G. L.) A method for maximizing the reliability coefficient of a communications network. **89b:90096**

Sirodzha, I. B. *see* **Salyga, V. I.; et al., 89m:90078**

Sobolev, L. G. Operational methods for calculating the probability characteristics of the reliability of control systems. (Russian. English summary) **89d:90107**

Sogomonyan, E. S. Reliability of self-testing using functional diagnostics. **89j:90136**

Soneoka, Terunao (*with* Manabe, Yoshifumi; Imase, Makoto) A design of reliable networks using node redundancy. **89m:90079**

Sørensen, J. D. (*with* Thoft-Christensen, P.) Integrated reliability-based optimal design of structures. (*see* **89g:73038**)

Srichander, R. *see* **Viswanadham, N., 89b:90097**

Strelec, H. (*with* Viertl, R.) Estimation of power-type acceleration functions in life testing. **89k:90076**

Suzuki, Yasusuke *see* **Kijima, Masaaki; et al., 89g:90115**

Szlachcic, Ewa Bicriterial optimization of structure of complex network. (*see* **89g:00018**)

Sztrik, J. Some contributions to the machine interference problem with heterogeneous machines. (German and Russian summaries) **89g:90120**

Tanaka, Ken-ichi *see* **Kawai, Hajime, 89e:90113**

Tanaka, Tsunehiko (*with* Kumamoto, Hiromitsu; Inoue, Koichi) A coverage Monte Carlo method for reliability quantification. (*see* **89f:00029**)

Tanino, Tetsuzo (*with* Fukazawa, Fumio) Maintenance policies in Markovian deterioration models of parallel unit systems. **89e:90117**

Thoft-Christensen, P. *see* **Sørensen, J. D.**, (**89g:73038**)

Thompson, G. L. *see* **Singhal, S., 89b:90096**

Tokumaru, Hidekatsu *see* **Ishida, Yoshiteru, 89i:90038** *and* **89i:90039**

Ushakov, I. A. Solving an optimal redundancy problem by means of generalized generating functions. (German and Russian summaries) **89h:90116**

— *see also* **Reinschke, K. J., 89h:90114**

Vander Velde, Wallace E. *see* **Massoumnia, Mohammad-Ali**, (Not in MR)

Vavrikovich, L. V. *see* **Korolyuk, V. S., 89k:90074**

Venugopal, N. Some new approaches through product densities in storage and reliability systems. **89k:90077**

Viertl, R. *see* **Strelec, H., 89k:90076**

Vilaplana, José P. Equipment replacement. (Spanish. English summary) **89k:90078**

Viswanadham, N. (*with* Srichander, R.) Fault detection using unknown-input observers. **89b:90097**

Weng, Jia Feng *see* **Zhang, Xian Mo; et al., 89g:90121**

Willsky, Alan S. *see* **Rohlicek, Jan Robin, 89g:90119**

Wu, Sung-Chi *see* **Hopp, Wallace J., 89k:90073**

Xia, Guo Hong A conception of a failure self-diagnosis system. (Chinese. English summary) **89h:90117**

Xiao, Xi A semiprobabilistic method for structural reliability analysis using optimality conditions. (Chinese. English summary) **89j:90137**

Yan, Chun Ning (*with* Shi, Ding Hua) Consecutive-k-out-of-n systems. (Chinese. English summary) **89k:90079**

(**Yano, Candace A.**) *see* **Graves, Stephen C.**, (Not in MR)

Yen, B. C. Stochastic methods and reliability analysis in water resources. (*see* **89g:76003c**)

Yu, Kai (*with* Guo, Yu Qing) Generalized multistate monotone coherent systems. (Chinese. English summary) **89j:90138**

Zhang, Xian Mo (*with* Hwang, F. K.; Weng, Jia Feng) Optimal detection of two defectives with a parity check device. **89g:90121**

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Items with secondary classifications in 90B25

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Albright, S. Christian (*with* Soni, Ashok Kumar) Markovian multi-echelon repairable inventory system. **89a:90053**

Ali, Mohamed Akkas *see* **Abu-Salih, M. S.; et al., 89d:62101**

Amin, A. T. (*with* Siegrist, K. T.; Slater, P. J.) Pair-connected reliability of a tree and its distance degree sequences. **89h:68118**

Andrzejczak, Karol J. Some properties of multistate BW-systems. **89e:62127**

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Basu, A. P. (*with* Tarmast, Ghasem) Reliability of a complex system from Bayesian viewpoint. **89f:62086**

Belyaev, Yu. K. (*with* Makarov, A. P.) A model with estimation of an absolutely guaranteed time of failure-free operation. **89d:62103**

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— Asymptotic analysis of some network reliability models. **89e:68002**

Biswas, Suddhendu (*with* Noor, Hamed Saad) Generalized age-dependent model for estimation of mean survival time in the presence of two competing risks. **89m:62111**

Bogdantsev, E. N. Reliability of a restorable system with variable rates of resource exhaustion and repair of elements. **89g:60271**

Bondarenko, V. M. (*with* Redkovets, S. N.) Diagnostics of active electrical circuits. (Russian) **89k:94082**

Brecht, Timothy B. (*with* Colbourn, Charles J.) Lower bounds on two-terminal network reliability. **89m:68008**

Caromicoli, Adam (*with* Willsky, Alan S.; Gershwin, Stanley B.) Multiple time scale analysis of manufacturing systems. (*see* **89c:00031**)

Chakraborty, Tushar Kanti A single sampling attribute plan of given strength based on fuzzy goal programming. (Not in MR)

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Cheng, Kan (*with* Hu, Yi Min) Limiting behavior of a PH distribution and its application in a reliability model. **89h:60148**

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Cherkesov, G. N. Use of spare time in single-server systems with two types of failure. **89a:60206**

Clarotti, C. A. (*with* Solonnikov, V. A.; Spizzichino, F.) Reliability equations for nonexponential systems with repairable components. (Italian summary) **89h:60149**

Colbourn, Charles J. Exact algorithms for network reliability. **89b:68014**

— ★ The combinatorics of network reliability. **89h:68001**

— Edge-packings of graphs and network reliability. **89k:05081**

— *see also* **Ramanathan, Aparna, 89g:05071** *and* **Brecht, Timothy B., 89m:68008**

Dass, J. *see* **Sharma, Om Prakash, 89k:60147**

Dharmadhikari, A. D. (*with* Gupta, Y. P.) Performance measure estimation for repairable systems. **89b:62204**

van Doorn, Erik A. *see* **Mehta, Madan Lal, 89g:90105**

Draper, N. R. (*with* Evans, Michael John; Guttman, I.) A Bayesian approach to system reliability when two components are dependent. (Not in MR)

Evans, Michael John *see* **Draper, N. R.; et al.**, (Not in MR)

Farley, Arthur M. Reliable minimum-time broadcast networks. **89f:94035**

Finkel, David *see* **Tripathi, Satish K.; et al., 89h:68008**

Fujiwara, Eiji (*with* Matsuoka, Kohji) Fault-tolerant k-out-of-n logic unit networks. (Not in MR)

Gaitanis, Nicolaos Totally self-checking checkers with separate internal fault indication. **89j:94044**

Gelenbe, Erol *see* **Tripathi, Satish K.; et al., 89h:68008**

Genis, Ya. G. (*with* Ushakov, I. A.) An estimate for the reliability of redundant repairable systems, taking into account the control and switching characteristics. **89i:62165**

Gershwin, Stanley B. *see* **Caromicoli, Adam; et al., (89c:00031)**

Grace, R. Esther *see* **Rangan, A., 89e:92015** *and* **89m:60213**

Gupta, Ramesh C. (*with* Kirmani, S. N. U. A.) On order relations between reliability measures. **89c:60101**

Gupta, Y. P. *see* **Dharmadhikari, A. D., 89b:62204**

Guttman, I. *see* **Draper, N. R.; et al.**, (Not in MR)

Haara, P. *see* **Arjas, E., 89m:60115**

Hsieh, H. K. *see* **Rukhin, Andrew L., 89a:62210**

Hsu, Lie Fern (*with* Tapiero, Charles S.) A Bayes approach to quality control of an $M/G/1$ queue. **89b:62209**

Hu, Yi Min *see* **Cheng, Kan, 89d:60031** *and* **89h:60148**

Ichihashi, H. (*with* Tanaka, Hideo) A fuzzy fault tree formulated by a class of fuzzy measures. **89k:03068**

Itai, Alon (*with* Rodeh, Michael) The multi-tree approach to reliability in distributed networks. **89k:68006**

Kalishev, O. N. A method for diagnosing measuring channels with account taken for prehistory. **89i:62167**

Kang, Tai *see* **Chen, Ting Huai; et al., 89m:68109**

Kawaguchi, Kimio *see* **Wada, Koichi; et al., 89b:68015**

Kijima, Masaaki Some results for uniformizable semi-Markov processes. **89d:60165**

Kim, Jee Soo (*with* Proschan, Frank; Sethuraman, Jayaram) Stochastic comparisons of order statistics, with applications in reliability. **89i:62082**

Kirmani, S. N. U. A. *see* **Gupta, Ramesh C., 89c:60101**

Kokhanenko, I. K. Interval estimation by the method of substitution. **89i:62050**

Kotlyar, V. Yu. (*with* Moroz, G. B.) Analysis of a system of "reserve parts" by an analytic-statistical method. (Russian) **89m:60211**

Kubic, William L., Jr. (*with* Stein, Fred P.) A theory of design reliability using probability and fuzzy sets. **89d:93045**

Langberg, Naftali A. Comparisons of replacement policies. **89k:60129**

Latouche, Guy A note on two matrices occurring in the solution of quasi-birth-and-death processes. **89d:60151**

Lindqvist, Bo Henry Monotone and associated Markov chains, with applications to reliability theory. **89b:60172**

Liptser, R. Sh. (*with* Yashin, A. I.) Applications of martingale methods. **89m:60105**

Lovejoy, William S. On the convexity of policy regions in partially observed systems. **89h:90202**

Luo, Yupin *see* **Wada, Koichi; et al., 89b:68015**

Lyashuk, V. V. Asymptotic flow of dependent failures of a repairable system. (Russian. English summary) **89d:60163**

Makarov, A. P. *see* **Belyaev, Yu. K., 89d:62103**

Massoumnia, Mohammad-Ali (*with* Verghese, George C.; Willsky, Alan S.) Failure detection and identification. **89k:93065**

Matsuoka, Kohji *see* **Fujiwara, Eiji**, (Not in MR)

McDiarmid, Colin General percolation and oriented matroids. **89g:60309**

Mehta, Madan Lal (*with* van Doorn, Erik A.) Inequalities for Charlier polynomials with application to teletraffic theory. **89g:90105**

Melchers, R. E. ★ Structural reliability. **89a:73050**

Mikadze, I. S. (*with* Mikadze, Z. I.; Shakaya, O. N.) Analysis of a multiprocessor queueing system and a multimachine queueing system taking account of equipment reliability. (Russian. English and Georgian summaries) **89h:90106**

Mikadze, Z. I. *see* **Mikadze, I. S.; et al., 89h:90106**

Miyake, Kou Analysis for loss system with finite sources which require several channels simultaneously. **89j:90117**

Moroz, G. B. An upper bound on the restoration function in a scheme with instantaneous replacement of "aging" elements. (Russian. English summary) **89g:60272**

— *see also* **Kotlyar, V. Yu., 89m:60211**

Morrison, John A. Conditioned response-time distribution for a large closed processor-sharing system in very heavy usage. **89c:68014**

Neumann, Robert Klaus Numerische Untersuchung von Funktionen zufälliger Matrizen. II. Restgliedabschätzung und Beispiele. [Numerical investigation of functions of random matrices. II. Estimation of the remainder and examples] **89h:65233**

Neuts, Marcel F. Computation and applications of geometric mixtures of convolutions. **89h:60146**

Noor, Hamed Saad *see* **Biswas, Suddhendu, 89m:62111**

Obzherin, Yu. E. (*with* Skatkov, A. V.) Reliable operation time of systems with a large augmentable time reserve. (Russian) **89e:60177**

Onose, Hiroshi Note on the failure rate characterizations. **89h:60150**

Pereverzev, E. S. ★ Случайные процессы в параметрических моделях надежности. (Russian) [Random processes in parametric reliability models] **89b:60202**

Petrović, R. (*with* Šenborn, A.; Vujošević, M.) ★ Hierarchical spare parts inventory systems. **89b:90067**

Philippou, A. N. Recursive theorems for success runs and reliability of consecutive-k-out-of-n: F systems. **89i:60022**

Płoszajski, Grzegorz *see* **Winnicki, Andrzej, (89g:00019)**

Proschan, Frank *see* **Kim, Jee Soo; et al., 89i:62082**

Qader, M. A. *see* **Abu-Salih, M. S.; et al., 89d:62101**

Ramanathan, Aparna (*with* Colbourn, Charles J.) Counting almost minimum cutsets with reliability applications. **89g:05071**

Rangan, A. (*with* Grace, R. Esther) A note on the selective interaction of two types of events resulting from a renewal point process and its applications. **89e:92015**

— (*with* Grace, R. Esther) On the replacement of systems subject to shocks and wear-dependent failure. **89m:60213**

(Rao, Calyampuli Radhakrishna) *see* **Sinha, Snehesh Kumar, 89c:62179**

Redkovets, S. N. *see* **Bondarenko, V. M., 89k:94082**

Rodeh, Michael *see* **Itai, Alon, 89k:68006**

Rukhin, Andrew L. (*with* Hsieh, H. K.) Survey of Soviet work in reliability. **89a:62210**

Sampson, Allan R. (*with* Whitaker, Lyn R.) Positive dependence, upper sets, and multidimensional partitions. **89k:62079**

Scarsini, M. (*with* Shaked, M.) Ordering distributions by scaled order statistics. (German summary) **89a:62039**

Schassberger, R. The steady-state distribution of spent service times present in the $M/G/1$ foreground-background processor-sharing queue. **89b:60227**

Scheinerman, Edward R. Almost sure fault tolerance in random graphs. **89c:94053**

Šenborn, A. *see* **Petrović, R.; et al., 89b:90067**

Sethuraman, Jayaram *see* **Kim, Jee Soo; et al., 89i:62082**

Shahul Hameed, M. A. An n-unit system with excessive available period. **89i:60176**

Shakaya, O. N. *see* **Mikadze, I. S.; et al., 89h:90106**

Shaked, M. (*with* Shanthikumar, J. George) Multivariate conditional hazard rates and the MIFRA and MIFR properties. **89h:62161**

— (*with* Shanthikumar, J. George) On the first failure time of dependent multicomponent reliability systems. **89g:60274**

— *see also* **Scarsini, M., 89a:62039**

Shanthikumar, J. George *see* **Shaked, M., 89g:60274** *and* **89h:62161**

Sharma, Om Prakash (*with* Dass, J.) Transient analysis of an $M/M/r$ machine interference model. **89k:60147**

Shi, Wei Geng (*with* Su, Stephen Y. H.) An outline diagnosable fault-tolerant redundancy system. (Not in MR)

Siegrist, K. T. *see* **Amin, A. T.; et al., 89h:68118**

Singpurwalla, Nozer D. Foundational issues in reliability and risk analysis. **89e:62133**

Sinha, Snehesh Kumar ★ Reliability and life testing. **89c:62179**

Sjogren, J. A. Iterative methods in the solution of dependability models. **89m:60174**

Skatkov, A. V. *see* **Obzherin, Yu. E., 89e:60177**

Slater, P. J. *see* **Amin, A. T.; et al., 89h:68118**

Solonnikov, V. A. *see* **Clarotti, C. A.; et al., 89h:60149**

Soni, Ashok Kumar *see* **Albright, S. Christian, 89a:90053**

Spizzichino, F. *see* **Clarotti, C. A.; et al., 89h:60149**

Stein, Fred P. *see* **Kubic, William L., Jr., 89d:93045**

Su, Stephen Y. H. *see* **Shi, Wei Geng**, (Not in MR)

Tanaka, Hideo *see* **Ichihashi, H., 89k:03068**

Tapiero, Charles S. *see* **Hsu, Lie Fern, 89b:62209**

Tarmast, Ghasem *see* **Basu, A. P., 89f:62086**

Tortorella, Michael Stationarity in models of successive stochastic phenomena. **89i:60078**

Tripathi, Satish K. (*with* Finkel, David; Gelenbe, Erol) Load sharing in distributed systems with failures. **89h:68008**

Ushakov, I. A. *see* **Genis, Ya. G., 89i:62165**

Verghese, George C. *see* **Massoumnia, Mohammad-Ali; et al., 89k:93065**

Vujošević, M. *see* **Petrović, R.; et al., 89b:90067**

Wada, Koichi (*with* Kawaguchi, Kimio; Luo, Yupin) Fault-tolerant network routings for $(k+1)$-node connected and $(k+1)$-edge connected graphs. **89b:68015**

Whitaker, Lyn R. *see* **Sampson, Allan R., 89k:62079**

Willsky, Alan S. *see* **Massoumnia, Mohammad-Ali; et al., 89k:93065** *and* **Caromicoli, Adam; et al., (89c:00031)**

Winnicki, Andrzej (*with* Płoszajski, Grzegorz) Optimisation problem for by-pass routes creation in the case of a teletransmission line break-down. (*see* **89g:00019**)

Wu, Yao A method to reduce the effect of tolerance in K-fault diagnosis. (Chinese. English summary) **89k:94094**

Xie, Min On some importance measures of system components. **89f:60102**

Xiong, Bing Kun *see* **Ye, Chun**, (Not in MR)

Yao, Rong *see* **Chen, Ting Huai; et al., 89m:68109**

Yashin, A. I. *see* **Liptser, R. Sh., 89m:60105**

Ye, Chun (*with* Xiong, Bing Kun) A fuzzy mathematical method for analog circuit fault diagnosis. (Chinese. English summary) (Not in MR)

Zverkina, G. A. Asymptotic analysis of a priority model with backup and repair. **89g:60268**

90B30 Production theory

Akella, R. Real time part dispatch in flexible assembly test and manufacturing systems. (*see* 89k:90082)

Akimov, A. P. (*with* Shafranskiĭ, V. V.) Planning in flexible manufacturing systems. (Not in MR)

Aliev, R. A. (*with* Panakhov, A. A.; Mamedova, G. A.) Identification of a fuzzy model of industrial production. (Russian) (*see* **89h:00001**)

Arbib, Claudio (*with* Lucertini, M.; Nicolò, F.) Optimization models for flexible manufacturing systems. (*see* **89k:90082**)

(Archetti, F.) *see* **Operations research models in flexible manufacturing systems, 89k:90082**

Arnold, Bernhard F. ★ Minimax-Prüfpläne für die Prozeßkontrolle. (German) [Minimax sampling inspection for process control] **89f:90069**

Axsäter, Sven A sequential lot sizing heuristic with optimal average performance. (Not in MR)

Bard, Jonathan F. (*with* Feo, Thomas A.) Operations sequencing in discrete parts manufacturing. **89m:90081**

Batsagin, V. S. (*with* Egorushkin, A. A.; Zyabrev, N. B.) A multifactorial problem on the setting up of production and the production of industrial products. (Russian) **89m:90082**

Bitran, G. R. (*with* Sarkar, D.) On upper bounds of sequential stochastic production planning problems. **89a:90064**

Bookbinder, James H. (*with* Tan, Jin-Yan) Strategies for the probabilistic lot-sizing problem with service-level constraints. (Not in MR)

Bourgouin, C. (*with* Proth, J.-M.; Xue, Jin Song) Boucle fermée multi-produits: régimes transitoire et permanent. (English summary) [Multiproduct closed loops: transitory and steady states] (Not in MR)

Carlson, Robert C. *see* **Yano, Candace A.**, (Not in MR)

Caromicoli, Adam (*with* Willsky, Alan S.; Gershwin, Stanley B.) Multiple time scale analysis of manufacturing systems. (*see* **89c:00031**)

Chaplinskiĭ, Yu. P. *see* **Volkovich, V. L.**, (Not in MR)

Chebanyuk, Yu. M. *see* **Gasanov, I. I.**, **89i:90041**

Chen, Mingyuan *see* **Kusiak, Andrew**, (Not in MR)

Chiu, Huan Neng (*with* Lin, Tsong Ming) An optimal lot-sizing model for multi-stage series/assembly systems. **89h:90118**

Christensen, G. S. (*with* Soliman, S. A.) ★ Optimal long-term operation of electric power systems. **89h:90119**

— *see also* **Soliman, S. A.**, (Not in MR)

Chung, Chia-Shin (*with* Lin, Chien-Hua Mike) An $O(T^2)$ algorithm for the $NI/G/NI/ND$ capacitated lot size problem. **89a:90065**

Conway, Adrian E. Insensitivity in models of flexible manufacturing systems with zero-buffer stations and reversible routing. **89e:90118**

— (*with* de Souza e Silva, Edmundo; Lavenberg, S. S.) Mean value analysis by chain of product form queueing networks. **89k:90080**

Deserti, L. (*with* Nedda Giraldo, L.) FMS: a classification of recent literature. (*see* **89k:90082**)

Dörner, E. *see* **Kloock, J.**, **89h:90120**

Egorushkin, A. A. *see* **Tikhonov, A. N.; et al.**, **89d:90114**; **89g:90124** *and* **Batsagin, V. S.; et al.**, **89m:90082**

Erenguc, S. Selcuk (*with* Tufekci, Suleyman) A transportation type aggregate production model with bounds on inventory and backordering. **89d:90108**

Escudero, L. F. General overview of integrated modelling systems for flexible manufacturing production planning. (Spanish. English summary) (Not in MR)

Evseev, O. V. Control production system for flexible manufacturing systems. (Not in MR)

Feo, Thomas A. *see* **Bard, Jonathan F.**, **89m:90081**

Fine, Charles H. A quality control model with learning effects. **89e:90119**

Fleming, W. H. (*with* Sethi, Suresh P.; Soner, H. M.) An optimal stochastic production planning problem with randomly fluctuating demand. **89c:90057**

Forster, M. A general network generator. (*see* **89g:90136**)

Fuller, J. David Introduction of a new process with learning about installation and operation. (Not in MR)

Gambarov, L. A. Decomposition of multi-index problems of the allocation of orders for production. (Russian) **89d:90109**

Gasanov, I. I. (*with* Chebanyuk, Yu. M.) ★ Многокритериальная стохастическая задача управления водохранилищем сезонного регулирования. (Russian) [A multicriterial stochastic problem of the control of a seasonal control reservoir] **89i:90041**

Gershwin, Stanley B. *see* **Caromicoli, Adam; et al.**, (**89c:00031**)

Gol'dengorin, B. I. Efficiently solvable classes for a one-product allocation problem. (Russian) **89c:90058**

Hagstrom, Jane N. Computational complexity of PERT problems. (Not in MR)

Hildenbrandt, R. Kostengünstige Belegung von Formen im Hinblick auf Bedarfsschwankungen. [Cost-effective occupancy of forms with respect to fluctuations in demand] (Not in MR)

Kloock, J. (*with* Dörner, E.) Kostenkontrolle bei mehrstufigen Produktionsprozessen. (English summary) [Cost controls in multistage production processes] **89h:90120**

Knessl, C. (*with* Matkowsky, B. J.; Schuss, Z.; Tier, C.) A state dependent $M/M/1$ queue: a production-inventory model. (Not in MR)

Konno, Hiroshi Minimum concave cost production system: a further generalization of multi-echelon model. **89e:90120**

de Koster, M. B. M. Approximate analysis of production systems. **89g:90122**

Kusiak, Andrew (*with* Chen, Mingyuan) Expert systems for planning and scheduling manufacturing systems. (Not in MR)

— *see also* **Analysis, modelling and design of modern production systems, 89g:90126**

Larrañeta, J. *see* **Onieva, L.; et al.**, **89d:90110**

Lavenberg, S. S. *see* **Conway, Adrian E.; et al.**, **89k:90080**

Lee, Hau L. (*with* Yano, Candace A.) Production control in multistage systems with variable yield losses. (Not in MR)

Lee, Young Jin *see* **Sung, Chang Sup**, **89k:90081**

Lin, Chien-Hua Mike *see* **Chung, Chia-Shin**, **89a:90065**

Lin, Tsong Ming *see* **Chiu, Huan Neng**, **89h:90118**

Lozano, S. *see* **Onieva, L.; et al.**, **89d:90110**

Lucertini, M. *see* **Arbib, Claudio; et al.**, (**89k:90082**) *and* **Operations research models in flexible manufacturing systems, 89k:90082**

Mamedova, G. A. *see* **Aliev, R. A.; et al.**, (**89h:00001**)

Matkowsky, B. J. *see* **Knessl, C.; et al.**, (Not in MR)

Meravý, Pavol *see* **Rendek, Ignác**, (Not in MR)

Morton, T. E. *see* **Udayabhanu, V.**, **89b:90098**

Nedda Giraldo, L. *see* **Deserti, L.**, (**89k:90082**)

Nedelchev, K. Ts. *see* **Tokarev, D. D.; et al.**, (Not in MR)

Nicolò, F. *see* **Arbib, Claudio; et al.**, (**89k:90082**)

Nomachi, Toshifumi *see* **Nomachi, Yukio**, (Not in MR)

Nomachi, Yukio (*with* Nomachi, Toshifumi) Selection of the economical production plan with a tool-wear process. (Not in MR)

Ntuen, Celestine A. Differential calculus application in manufacturing system productivity design. (Not in MR)

O'Cinneide, Colm A. *see* **Schneider, Helmut; et al.**, (Not in MR)

Onieva, L. (*with* Lozano, S.; Larrañeta, J.; Ruiz Usano, R.) Primal-dual approach to the capacitated production planning problem with concave costs. (Spanish. English summary) **89d:90110**

Panakhov, A. A. *see* **Aliev, R. A.; et al.**, (**89h:00001**)

Petkov, Ĭ. S. *see* **Tokarev, D. D.; et al.**, (Not in MR)

Proth, J.-M. *see* **Bourgouin, C.; et al.**, (Not in MR)

Rendek, Ignác (*with* Meravý, Pavol) Optimization of plans using triangular matrices. (Slovak. English summary) (Not in MR)

Reyman, Grzegorz (*with* Schäfer, Wolfgang; Trippler, Gisela) Application of dynamic programming and discrete maximum principle to a problem of optimal operation choice for a robot in assembly processes. (Russian and Polish summaries) (Not in MR)

Richter, Knut Dynamic energy production model. **89j:90139**

Rikun, A. D. *see* **Zak, E. I.**, (Not in MR)

Rinnooy Kan, A. H. G. (*with* de Wit, J. R.; Wijmenga, R. Th.) Nonorthogonal two-dimensional cutting patterns. **89d:90111**

Ruiz Usano, R. *see* **Onieva, L.; et al.**, **89d:90110**

Sagyngaliev, K. S. Coordinated planning in a three-level active system. (Not in MR)

Sakano, Susumu The problem of production process arrangement (optimization method for arrangement analysis). (Not in MR)

Sandrin, P. Les méthodes de commande optimale pour la planification et l'exploitation des grands systèmes électriques. (English summary) [Optimal control methods for large power systems planning and operation] (Not in MR)

Sarkar, D. *see* **Bitran, G. R.**, **89a:90064**

Schäfer, Wolfgang *see* **Reyman, Grzegorz; et al.**, (Not in MR)

Schneider, Helmut (*with* O'Cinneide, Colm A.; Tang, Kwei) Optimal control of a production process subject to AOQL constraint. (Not in MR)

Schuss, Z. *see* **Knessl, C.; et al.**, (Not in MR)

Schweitzer, Paul J. *see* **Seidmann, Abraham; et al.**, (Not in MR)

Seidmann, Abraham (*with* Schweitzer, Paul J.; Shalev-Oren, Sarit) Computerized closed queueing network models of flexible manufacturing systems: a comparative evaluation. (Not in MR)

— Regenerative pull (Kanban) production control policies. **89d:90112**

Sengupta, Jati K. The active approach of stochastic optimization with new applications. **89d:90113**

(Serafini, P.) *see* **Operations research models in flexible manufacturing systems, 89k:90082**

Sethi, Suresh P. *see* **Fleming, W. H.; et al.**, **89c:90057**

Shafranskiĭ, V. V. *see* **Akimov, A. P.**, (Not in MR)

Shalev-Oren, Sarit *see* **Seidmann, Abraham; et al.**, (Not in MR)

Shanthikumar, J. George (*with* Yao, David D.) On server allocation in multiple center manufacturing systems. **89g:90123**

Soliman, S. A. (*with* Christensen, G. S.) Minimum norm approach to optimal long-term operation of multireservoir power systems with specified monthly generation. (Not in MR)

— *see also* **Christensen, G. S.**, **89h:90119**

Soner, H. M. *see* **Fleming, W. H.; et al.**, **89c:90057**

de Souza e Silva, Edmundo *see* **Conway, Adrian E.; et al.**, **89k:90080**

Stott, Kenneth L. *see* **Vasko, Francis J.; et al.**, (Not in MR) *and* (Not in MR)

Sung, Chang Sup (*with* Lee, Young Jin) Branch-and-bound approach for a stochastic production planning problem with capacity constraints. **89k:90081**

Tan, Jin-Yan *see* **Bookbinder, James H.**, (Not in MR)

Tang, Kwei *see* **Schneider, Helmut; et al.**, (Not in MR)

Tier, C. *see* **Knessl, C.; et al.**, (Not in MR)

Tikhonov, A. N. (*with* Egorushkin, A. A.; Zyabrev, N. B.) A two-factor problem of the re-equipping of a branch for joint production. (Russian) **89d:90114**

— (*with* Egorushkin, A. A.; Zyabrev, N. B.) A multifactor optimal planning problem with decreasing cost function. **89g:90124**

Tokarev, D. D. (*with* Petkov, Ĭ. S.; Nedelchev, K. Ts.) A mathematical model for multistage production. (Bulgarian. English and Russian summaries) (Not in MR)

Trippler, Gisela *see* **Reyman, Grzegorz; et al.**, (Not in MR)

Tufekci, Suleyman *see* **Erenguc, S. Selcuk**, **89d:90108**

Udayabhanu, V. (*with* Morton, T. E.) Planning horizons for capacity expansion. **89b:90098**

Umrikhina, E. V. A problem of the representation of matrix convolutions by generalized additive convolutions in the formation of complex estimates. (Russian. English summary) **89b:90099**

Uteuliev, N. *see* **Yastremskiĭ, A. I.**, **89g:90125**

Vasko, Francis J. (*with* Wolf, Floyd E.; Stott, Kenneth L.) A set covering approach to metallurgical grade assignment. (Not in MR)

— (*with* Wolf, Floyd E.; Stott, Kenneth L.) A practical solution to a fuzzy two-dimensional cutting stock problem. (Not in MR)

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Warschat, J. (*with* Wunderlich, H. J.) Output-maximal control policies for cascaded production-inventory systems with control and state constraints. **89d:90115**

Węgrzyn, Maciej Conflict situations in a production process. (Polish. English and Russian summaries) **89c:90059**

Wijmenga, R. Th. *see* **Rinnooy Kan, A. H. G.; et al., 89d:90111**
(Wilhelm, Wilbert E.) *see* **Analysis, modelling and design of modern production systems, 89g:90126**
Willsky, Alan S. *see* **Caromicoli, Adam; et al.,** (**89c:00031**)
de Wit, J. R. *see* **Rinnooy Kan, A. H. G.; et al., 89d:90111**
Wolf, Floyd E. *see* **Vasko, Francis J.; et al.,** (Not in MR) *and* (Not in MR)
Wunderlich, H. J. *see* **Warschat, J., 89d:90115**
Xue, Jin Song *see* **Bourgouin, C.; et al.,** (Not in MR)
Yano, Candace A. (*with* Carlson, Robert C.) Safety stocks for assembly systems with fixed production intervals. (Not in MR)
— *see also* **Lee, Hau L.,** (Not in MR)
Yao, David D. *see* **Shanthikumar, J. George, 89g:90123**
Yastremskiĭ, A. I. (*with* Uteuliev, N.) Modeling possibilities of two-step and multistep stochastic models. **89g:90125**
Zak, E. I. (*with* Rikun, A. D.) Production model under the conditions of variable intensity of output of material resources. (Not in MR)
Zhang, Wei Xiong An automatic planning method and algorithm based on a Petri net representation. (Chinese. English summary) (Not in MR)
Zyabrev, N. B. *see* **Tikhonov, A. N.; et al., 89d:90114; 89g:90124** *and* **Batsagin, V. S.; et al., 89m:90082**

Items listed otherwise than by author

Analysis, modelling and design of modern production systems ★ Analysis, modelling and design of modern production systems. **89g:90126**
Operations research models in flexible manufacturing systems ★ Operations research models in flexible manufacturing systems. **89k:90082**
School:
Operations Research Models in Flexible Manufacturing Systems ★ Operations research models in flexible manufacturing systems. **89k:90082**
Udine ★ Operations research models in flexible manufacturing systems. **89k:90082**

Items with secondary classifications in 90B30

Abzianidze, D. V. *see* **Andreev, N. V.,** (Not in MR)
Andreev, N. V. (*with* Abzianidze, D. V.) A problem of the optimization of the broaching process in pipe rolling production. (Russian) (Not in MR)
Anisimov, P. A. (*with* Marichuk, M. N.) ★ Системы оперативного управления дискретными производствами. (Russian) [Systems for the operative control of discrete productions] **89h:68013**
Archetti, F. (*with* Sciomachen, A.) Development, analysis and simulation of Petri net models: an application to AGV systems. (*see* **89k:90082**)
Bachurina, M. D. (*with* Shirokov, A. M.) ★ Основы теории комплектования. (Russian) [Fundamentals of the theory of completion] **89i:90093**
Bauer, Wolfgang ★ Optimal control of storage power plants. **89i:93082**
Blumbergs, A. A. (*with* Grundspenkis, Janis) Principles of automization of the design of experiments for dynamic systems. (Russian) (*see* **89h:00001**)
Caccetta, L. (*with* Giannini, L. M.) An application of discrete mathematics in the design of an open pit mine. **89i:05125**
Egorushkin, A. A. (*with* Zyabrev, N. B.) Solution of a multifactor problem of nonlinear programming. (Russian) **89h:90194**
Ferreira, José António Soéiro (*with* Vidal, René Victor Valqui) A new algorithm for the economic lot size problem. (Russian and Polish summaries) (Not in MR)
Frolov, E. B. *see* **Solomentsev, Yu. M., 89d:93068**
Gaĭtsgori, V. G. (*with* Pervozvanskiĭ, Anatoli A.) Local criteria of quality in the optimization of technological complexes. (Not in MR)
Giannini, L. M. *see* **Caccetta, L., 89i:05125**
Graves, Stephen C. Safety stocks in manufacturing systems. **89d:90082**
Grundspenkis, Janis *see* **Blumbergs, A. A.,** (**89h:00001**)
Haupt, Reinhard Production scheduling under time-varying resource consumption. **89j:90146**
Hillion, H. P. (*with* Proth, J.-M.) Analyse de fabrications non linéaires et répétitives à l'aide de graphes d'événements temporisés. (English summary) [Analysis of nonlinear repetitive processing by means of timed event graphs] **89g:90129**
Janiak, Adam Time-optimal control of a sequence of projects of activities. **89d:90118**
Kaliev, E. Zh. Algorithms for solving the problem of the location of plants for processing of agricultural production without constraints on the volume of the processing. (Russian) **89m:90062**
Kalvin, Alan *see* **Wolfson, Haim; et al.,** (Not in MR)
Kher, Lov Kumar (*with* Sorooshian, Soroosh) A predictive demand model for systems planning, using noisy realization theory. **89j:93129**
Kolev, Nikolaĭ V. An optimal control problem with implicit breakdowns and relation with distributions of order K. **89g:90116**
Komkov, N. I. (*with* Pleshchinskiĭ, A. S.) The decomposition method of allocating resources in a multiobjective program. **89i:90080**
Krasnikova, L. I. *see* **Yastremskiĭ, A. I.,** (Not in MR)
Lamdan, Yehezkel *see* **Wolfson, Haim; et al.,** (Not in MR)
Li, Lode A stochastic theory of the firm. **89i:90015**
Lindner, Ewald H. ★ Models for the optimal control of storage power plants. **89i:93081**
Luss, Hanan (*with* Smith, Donald Robert) Multiperiod allocation of limited resources: a minimax approach. **89e:90137**
Mandelbaum, Avi Continuous multi-armed bandits and multiparameter processes. **89b:62169**
Marichuk, M. N. *see* **Anisimov, P. A., 89h:68013**
Mitra, Debasis Stochastic theory of a fluid model of producers and consumers coupled by a buffer. **89h:60166**
Ognivtsev, S. B. An approach to the approximation of polyhedral sets. **89h:90061**
Pervozvanskiĭ, Anatoli A. *see* **Gaĭtsgori, V. G.,** (Not in MR)
Pleshchinskiĭ, A. S. *see* **Komkov, N. I., 89i:90080**
Prokopenko, A. A. Active systems with monotonically connected criteria of center and elements under conditions of uncertainty. (Russian. English summary) **89a:93009**
Proth, J.-M. *see* **Hillion, H. P., 89g:90129**
Schonberg, Edith *see* **Wolfson, Haim; et al.,** (Not in MR)
Sciomachen, A. *see* **Archetti, F.,** (**89k:90082**)
Sengupta, Jati K. (*with* Sfeir, Raymond E.) Minimax method of measuring productive efficiency. **89i:90014**
Sfeir, Raymond E. *see* **Sengupta, Jati K., 89i:90014**
Shirokov, A. M. *see* **Bachurina, M. D., 89i:90093**
Smith, Donald Robert *see* **Luss, Hanan, 89e:90137**
Solomentsev, Yu. M. (*with* Frolov, E. B.) The mathematical model of flexible machining-cell. (Russian summary) **89d:93068**
Sorooshian, Soroosh *see* **Kher, Lov Kumar, 89j:93129**
Tang, Christopher S. A max-min allocation problem: its solutions and applications. **89f:90103**
Vidal, René Victor Valqui *see* **Ferreira, José António Soéiro,** (Not in MR)
Wang, Bai Lin Model reference adaptive control for a hydroelectric generating system. (Chinese. English summary) (Not in MR)
Wolfson, Haim (*with* Schonberg, Edith; Kalvin, Alan; Lamdan, Yehezkel) Solving jigsaw puzzles by computer. (Not in MR)
Yastremskiĭ, A. I. (*with* Krasnikova, L. I.) Application of methods for solving minimax problems to problems of resource allocation. (Russian) (Not in MR)
Zyabrev, N. B. *see* **Egorushkin, A. A., 89h:90194**

90B35 Scheduling theory

Adams, Joseph (*with* Balas, Egon; Zawack, D. J.) The shifting bottleneck procedure for job shop scheduling. **89b:90100**
Anger, Frank D. *see* **Lee, Chung-Yee; et al., 89g:90130**
Artamonov, I. M. Structurally condensed r-schedules for a production sector. (Russian) **89h:90121**
Astakhov, N. D. (*with* Jaime Chavez, M.) ★ Некоторые задачи составления плана работ и алгоритмы их решения. (Russian) [Some problems on job scheduling and algorithms for their solution] **89k:90083**
Avi-Itzhak, Benjamin (*with* Halfin, Shlomo) Response times in $M/M/1$ time-sharing schemes with limited number of service positions. **89e:90121**
Bagga, P. C. *see* **Kalra, K. R., 89j:90149** *and* **89k:90086**
Bakenrot, V. Yu. (*with* Chefranov, A. G.) On the quality of list dispatchers. (Russian. English summary) (Not in MR)
Balas, Egon *see* **Adams, Joseph; et al., 89b:90100**
Ball, Michael O. (*with* Magazine, Michael J.) Sequencing of insertions in printed circuit board assembly. (Not in MR)
Bansal, S. P. *see* **Kalra, K. R.; et al., 89k:90086**
Bechtold, Stephen E. (*with* Sumners, De Witt L.) Optimal work-rest scheduling with exponential work-rate decay. **89b:90101**
Bel, G. (*with* Bensana, E.; Dubois, Didier) Construction d'ordonnancements prévisionnels: un compromis entre approchesaclassiques et systèmes experts. (English summary) [Production scheduling: a compromise between classical approaches and expert systems] (Not in MR)
Bensana, E. *see* **Bel, G.; et al.,** (Not in MR)
(Bhave, P. R.) *see* **Laporte, Gilbert,** (Not in MR)
Birge, John R. (*with* Glazebrook, K. D.) Assessing the effects of machine breakdowns in stochastic scheduling. **89j:90140**
Błażewicz, J. (*with* Finke, G.; Haupt, Reinhard; Schmidt, Günter Joachim) New trends in machine scheduling. **89h:90122**
Blest, D. C. (*with* Fitzgerald, D. G.) Scheduling sports competitions with a given distribution of times. **89k:90084**
Bol′shakov, S. Yu. *see* **Davydov, È. G., 89a:90067**
Böttcher, Axel (*with* Lawitzky, Gisbert; Simon, Hans-Ulrich) Worst-case analysis of heuristics for the local microcode optimization problem. **89g:90127**
Bräsel, Heidemarie Rangminimale Maschinenbelegungsprobleme. [Rank-minimal machine occupation problems] **89f:90070**
Brucker, P. An efficient algorithm for the job-shop problem with two jobs. (German summary) **89j:90141**
Brudaru, Octav (*with* Silion, Radu) Pipelined processing of tasks with deterministic or stochastic execution times. (Romanian summary) **89m:90083**
Bulfin, R. L. *see* **Liu, Chang Yung, 89f:90074**
Bulgak, A. S. A multicriteria problem of scheduling theory with inventory resources. (Russian. English summary) **89e:90122**
Carlier, J. (*with* Pinson, E.) An algorithm for solving the job-shop problem. **89m:90084**
Cavalier, Tom M. *see* **Hong, Jae-Dong; et al.,** (Not in MR)
Chand, Suresh (*with* Schneeberger, Hans M.) Single machine scheduling to minimize weighted earliness subject to no tardy jobs. **89a:90066**
Chandra, M. Jeya *see* **Hong, Jae-Dong; et al.,** (Not in MR)
Chang, Jui Hsiung (*with* Lee, Richard C. T.) On a scheduling problem where a job can be executed only by a limited number of processors. **89h:90123**
Chefranov, A. G. *see* **Bakenrot, V. Yu.,** (Not in MR)
Cheng, T. C. E. On a single-machine optimal constant due-date assignment and sequencing problem. (Not in MR)
— An alternative proof of optimality for the common due-date assignment problem. **89k:90085a**
— Integration of priority dispatching and due-date assignment in a job shop. **89h:90124**
— Optimal constant due-date assignment and sequencing. (Not in MR)
— Corrigendum: "An alternative proof of optimality for the common due-date assignment problem". **89k:90085b**
Chow, Yuan-Chieh *see* **Lee, Chung-Yee; et al., 89g:90130**
Chung, Chia-Shin (*with* Mohanty, Bidhu B.) Minimizing expected makespan in a two-machine stochastic open shop with Poisson arrival. **89e:90123**
Dallery, Yves *see* **Frein, Yannick; et al.,** (Not in MR)
Danil′chenko, A. M. *see* **Varakin, A. S.; et al.,** (Not in MR)
David, René Marcel *see* **Frein, Yannick; et al.,** (Not in MR)
Davydov, È. G. (*with* Bol′shakov, S. Yu.) ★ Теоретико-групповые методы агрегирования в сетевых задачах. (Russian) [Group-theoretic methods for aggregation in network

problems] **89a:90067**

De, Suranjan A knowledge-based approach to scheduling in an FMS. (Not in MR)

Desrochers, Martin (*with* Soumis, François) A reoptimization algorithm for the shortest path problem with time windows. **89b:90102**

Deweß, Günter Zur Weiterentwicklung des Frontenmodells der Optimierung ressourcenbeschränkter Netzplanabläufe. (English summary) [On the further development of the front model of optimization of bounded resource network production planning] **89j:90142**

Drogou, M. *see* **Proust, C.; et al.**, (Not in MR)

Dubois, Didier *see* **Bel, G.; et al.**, (Not in MR)

Dushin, B. I. An algorithm for solving the two-route Johnson problem. **89g:90128**

Eaves, B. Curtis (*with* Rothblum, Uriel G.) A discrete time average cost flexible manufacturing and operator scheduling model solved by deconvexification over time. **89d:90116**

Escudero, L. F. S3 sets. An extension of the Beale-Tomlin special ordered sets. **89f:90071**

Fay, N. A. *see* **Glazebrook, K. D.**, **89b:90105**

Fiala, Petr (*with* Kurtevová, Sylva; Vopálková, Eliška) Solution approaches to multicriterial one-machine scheduling problems. (Czech. English summary) (Not in MR)

Finke, G. *see* **Błażewicz, J.; et al.**, **89h:90122**

Fischetti, Matteo (*with* Martello, Silvano; Toth, Paolo) The fixed job schedule problem with spread-time constraints. **89b:90103**

Fitzgerald, D. G. *see* **Blest, D. C.**, **89k:90084**

Forst, Frank G. Stochastically minimizing total penalty costs in the two-machine flow shop with random processing times. **89h:90125**

Foucher, J. M. *see* **Proust, C.; et al.**, (Not in MR)

Foucheyrand, E. *see* **Proust, C.; et al.**, (Not in MR)

Frein, Yannick (*with* Dallery, Yves; Pierrat, Jean-Jacques; David, René Marcel) Optimisation du routage des pièces dans un atelier flexible par des méthodes analytiques. (English summary) [Analytic methods for the optimal routing of parts in a flexible manufacturing system] (Not in MR)

Frenk, J. B. G. (*with* Rinnooy Kan, A. H. G.) The asymptotic optimality of the LPT rule. **89a:90068**

Frostig, Esther A stochastic scheduling problem with intree precedence constraints. **89j:90143**

Gabisoniya, G. V. *see* **Saradzhishvili, Ts. I.; et al.**, (Not in MR)

Garey, M. R. (*with* Tarjan, Robert E.; Wilfong, Gordon T.) One-processor scheduling with symmetric earliness and tardiness penalties. **89f:90072**

Gascon, André (*with* Leachman, Robert C.) A dynamic programming solution to the dynamic, multi-item, single-machine scheduling problem. **89b:90104**

— *see also* **Leachman, Robert C.**, **89b:90106**

Gershwin, Stanley B. A hierarchical framework for discrete event scheduling in manufacturing systems. (*see* **89a:00019**)

— *see also* **Maimon, Oded**, **89d:90120**

Giardina, F. *see* **Serafini, P.; et al.**, (**89k:90082**)

Gimadi, È. Kh. Some mathematical models and methods for the planning of large-scale projects. (Russian) **89h:90126**

Glazebrook, K. D. (*with* Fay, N. A.) On the scheduling of alternative stochastic jobs on a single machine. **89b:90105**

— *see also* **Birge, John R.**, **89j:90140**

Goyal, S. K. (*with* Sriskandarajah, C.) No-wait shop scheduling: computational complexity and approximate algorithms. **89j:90144**

Gutenbaum, Jakub Two-level heuristic algorithm for parallel machines scheduling. **89j:90145**

Hajek, Bruce (*with* Sasaki, Galen) Link scheduling in polynomial time. **89m:90085**

Halfin, Shlomo *see* **Avi-Itzhak, Benjamin**, **89e:90121**

Hall, Nicholas G. (*with* Rhee, K. Anthony; Rhee, WanSoo T.) A nonidentical parallel processor scheduling problem. **89a:90069**

Haupt, Reinhard Production scheduling under time-varying resource consumption. **89j:90146**

— *see also* **Błażewicz, J.; et al.**, **89h:90122**

Hillion, H. P. (*with* Proth, J.-M.) Analyse de fabrications non linéaires et répétitives à l'aide de graphes d'événements temporisés. (English summary) [Analysis of nonlinear repetitive processing by means of timed event graphs] **89g:90129**

— (*with* Proth, J.-M.) Performance evaluation of job-shop systems using timed event-graphs. **89j:90147**

Hirayama, Tetsuji Optimal service assignment in a finite-source queue. **89j:90148**

Hochbaum, Dorit S. (*with* Shmoys, David B.) Using dual approximation algorithms for scheduling problems: theoretical and practical results. **89d:90117**

Hong, Jae-Dong (*with* Chandra, M. Jeya; Cavalier, Tom M.) The assignment of minimum crews among bases in an airlift operation. (Not in MR)

Hoppe, Veronika Zu einem speziellen Maschinenbelegungsproblem. [On a special machine sequencing problem] **89f:90073**

Huang, Wan Zhen A new proof of optimality for an algorithm for one-machine scheduling problems. (Chinese. English summary) **89e:90124**

Hwang, Jing Jang *see* **Lee, Chung-Yee; et al.**, **89g:90130**

Ikeda, Hideto *see* **Kitagawa, Fumio**, **89k:90087**

Jaime Chavez, M. *see* **Astakhov, N. D.**, **89k:90083**

Janiak, Adam Minimization of the maximum tardiness in one-machine scheduling problem subject to precedence and resource constraints. **89a:90070**

— Time-optimal control of a sequence of projects of activities. **89d:90118**

Kalra, K. R. (*with* Bagga, P. C.) Minimization of waiting cost in $n \times m$ permutation flowshop scheduling with precedence constraints. **89j:90149**

— (*with* Bansal, S. P.; Bagga, P. C.) Equivalent job for block of jobs in $n \times 2$ flowshop scheduling with setup times separated. **89k:90086**

Kämpke, Thomas Optimal scheduling of jobs with exponential service times on identical parallel processors. **89m:90086**

Kawaguchi, Tsuyoshi (*with* Kyan, Seiki) Deterministic scheduling in computer systems: a survey. (Japanese summary) **89j:90150**

Kirchner, Hélène *see* **Serafini, P.; et al.**, (**89k:90082**)

Kitagawa, Fumio (*with* Ikeda, Hideto) An existential problem of a weight-controlled subset and its application to school timetable construction. **89k:90087**

Koop, Gerald J. Multiple shift workforce lower bounds. (Not in MR)

Kovalev, M. Ya. An exact algorithm for the design of an optimal schedule, taking the injury factor into account. (Russian. English summary) **89h:90127**

Kubale, Marek The complexity of scheduling independent two-processor tasks on dedicated processors. **89d:90119**

Kukuliev, G. Yu. Some problems of controlling the inventory of a perishable product. **89e:90125**

(Kulkarni, R. V.) *see* **Laporte, Gilbert**, (Not in MR)

Kumar, P. R. *see* **Perkins, James R.**, (Not in MR)

Kurtevová, Sylva *see* **Fiala, Petr; et al.**, (Not in MR)

Kutkhashvili, K. V. *see* **Saradzhishvili, Ts. I.; et al.**, (Not in MR)

Kyan, Seiki *see* **Kawaguchi, Tsuyoshi**, **89j:90150**

Laporte, Gilbert Integer programming formulations for the multi-depot vehicle routing problem. Comments on a paper by R. V. Kulkarni and P. R. Bhave: "Integer programming formulations of vehicle routing problems" [European J. Oper. Res. **20** (1985), no. 1, 58–67]. (Not in MR)

Lawitzky, Gisbert *see* **Böttcher, Axel; et al.**, **89g:90127**

Leachman, Robert C. (*with* Gascon, André) A heuristic scheduling policy for multi-item, single-machine production systems with time-varying, stochastic demands. **89b:90106**

— *see also* **Gascon, André**, **89b:90104**

Ledak, L. P. Priority-admissible schedules in a problem with discrete time periods. (Russian) (*see* **89e:68058**)

Lee, Chung-Yee (*with* Massey, J. David) Multiprocessor scheduling: combining LPT and MULTIFIT. **89e:90126**

— (*with* Hwang, Jing Jang; Chow, Yuan-Chieh; Anger, Frank D.) Multiprocessor scheduling with interprocessor communication delays. **89g:90130**

Lee, Richard C. T. *see* **Chang, Jui Hsiung**, **89h:90123**

Liu, Chang Yung (*with* Bulfin, R. L.) Scheduling open shops with unit execution times to minimize functions of due dates. **89f:90074**

Liu, John J. *see* **Szwarc, Włodzimierz; et al.**, **89j:90153**

Lo, Virginia Mary Heuristic algorithms for task assignment in distributed systems. (Not in MR)

Luganskii, I. L. An algorithm for constructing schedules for deterministic single-processor real-time computer systems. (Russian) (*see* **89e:68058**)

Magazine, Michael J. *see* **Ball, Michael O.**, (Not in MR)

Maimon, Oded (*with* Gershwin, Stanley B.) Dynamic scheduling and routing for flexible manufacturing systems that have unreliable machines. **89d:90120**

Martello, Silvano *see* **Fischetti, Matteo; et al.**, **89b:90103**

Massey, J. David *see* **Lee, Chung-Yee**, **89e:90126**

Matsuo, Hirofumi The weighted total tardiness problem with fixed shipping times and overtime utilization. **89f:90075**

Melikov, G. Yu. Optimal processes in finite convolutional linear sequential machines. (Russian) (*see* **89b:00011**)

Miyazaki, Shigeji A scheduling method based on local optimum for minimizing total tardiness. (Not in MR)

— (*with* Ohta, Hiroshi) An optimal solution of the assembly line balancing problem with the balancing index as a primary objective function. (*see* **89f:00029**)

Mohanty, Bidhu B. *see* **Chung, Chia-Shin**, **89e:90123**

Morrison, John F. A note on LPT scheduling. **89f:90076**

Morton, T. E. (*with* Singh, Medini R.) Implicit costs and prices for resources with busy periods. **89i:90042**

— *see also* **Ow, Peng Si**, **89m:90087**

Naddef, Denis (*with* Santos, Cipriano) One-pass batching algorithms for the one-machine problem. **89h:90128**

Nakamori, Mario A parallel algorithm for the machine scheduling problem. (*see* **89f:00029**)

Nakamura, Zentaro (*with* Watanabe, Ichie) An optimal sequencing problem for a two-stage flow shop with alternative job assignments. (Japanese. English summary) **89c:90060**

Nowicki, Eugeniusz (*with* Zdrzałka, Stanisław) A two-machine flow shop scheduling problem with controllable job processing times. **89a:90071**

Numata, Kazumiti Approximate and exact algorithms for scheduling independent tasks on unrelated processors. (Japanese summary) **89b:90107**

Ohta, Hiroshi *see* **Miyazaki, Shigeji**, (**89f:00029**)

Ow, Peng Si (*with* Morton, T. E.) The single machine early/tardy problem. **89m:90087**

Panishev, A. V. *see* **Varakin, A. S.; et al.**, (Not in MR)

Perkins, James R. (*with* Kumar, P. R.) Stable, distributed, real-time scheduling of flexible manufacturing/assembly/disassembly systems. (Not in MR)

Pierrat, Jean-Jacques *see* **Frein, Yannick; et al.**, (Not in MR)

Pinedo, Michael (*with* Weiss, Gideon) The "largest variance first" policy in some stochastic scheduling problems. **89d:90121**

Pinson, E. *see* **Carlier, J.**, **89m:90084**

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— *see also* **Szwarc, Włodzimierz; et al.**, **89j:90153**

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Raghavachari, M. (*with* Vani, Vina) A class of balanced allocation problems. **89i:90043**

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Rhee, K. Anthony *see* **Hall, Nicholas G.; et al.**, **89a:90069**

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— *see also* **Hall, Nicholas G.; et al., 89a:90069**

Righter, Rhonda Job scheduling to minimize expected weighted flowtime on uniform processors. **89c:90062**

Rinnooy Kan, A. H. G. *see* **Frenk, J. B. G., 89a:90068**

Ross, Keith W. (*with* Yao, David D.) Optimal dynamic scheduling in Jackson networks. **89j:90151**

Rothblum, Uriel G. *see* **Eaves, B. Curtis, 89d:90116**

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Santos, Cipriano *see* **Naddef, Denis, 89h:90128**

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Sasaki, Galen *see* **Hajek, Bruce, 89m:90085**

Sauer, Norbert W. (*with* Stone, M. G.) Rational preemptive scheduling. **89h:90131**

Savelsbergh, M. W. P. Local search in routing problems with time windows. **89b:90109**

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— Modelling and scheduling a batch-type production on identical machines. **89b:90110**

Schmidt, Günter Joachim *see* **Błażewicz, J.; et al., 89h:90122**

Schneeberger, Hans M. *see* **Chand, Suresh, 89a:90066**

Serafini, P. (*with* Ukovich, W.; Kirchner, Hélène; Giardina, F.; Tiozzo, F.) Job shop scheduling: a case study. (*see* **89k:90082**)

Servakh, V. V. Some properties of the three-machine Johnson problem. (Russian) **89g:90132**

Sevast'yanov, S. V. Geometry in scheduling theory. (Russian) **89m:90088**

Shmoys, David B. *see* **Hochbaum, Dorit S., 89d:90117**

Silion, Radu *see* **Brudaru, Octav, 89m:90083**

Simon, Hans-Ulrich *see* **Böttcher, Axel; et al., 89g:90127**

Singh, Medini R. *see* **Morton, T. E., 89i:90042**

Sniedovich, Moshe A minimax job completion-time problem revisited. **89g:90133**

Soumis, François *see* **Desrochers, Martin, 89b:90102**

Sriskandarajah, C. *see* **Goyal, S. K., 89j:90144**

Stone, M. G. *see* **Sauer, Norbert W., 89h:90131**

Sumners, De Witt L. *see* **Bechtold, Stephen E., 89b:90101**

Szwarc, Włodzimierz (*with* Posner, Marc E.; Liu, John J.) The single machine problem with a quadratic cost function of completion times. **89j:90153**

Tanaev, V. S. ★ Теория расписаний. (Russian) [Scheduling theory] **89g:90134**

Tang, Guo Chun *see* **Tao, Lin, 89k:90090**

Tao, Lin (*with* Tang, Guo Chun) An improvement of Emmons' conditions and presequencing of work pieces in a tardiness problem. (Chinese. English summary) **89k:90090**

Tarjan, Robert E. *see* **Garey, M. R.; et al., 89f:90072**

Thomas, V. *see* **Roubellat, F.**, (Not in MR)

Thompson, G. L. (*with* Zawack, D. J.) A problem expanding parametric programming method for solving the job shop scheduling problem. **89b:90111**

Tiozzo, F. *see* **Serafini, P.; et al.**, (**89k:90082**)

Toth, Paolo *see* **Fischetti, Matteo; et al., 89b:90103**

Ukovich, W. *see* **Serafini, P.; et al.**, (**89k:90082**)

Vani, Vina *see* **Raghavachari, M., 89i:90043**

Van Wassenhove, L. N. *see* **Potts, C. N., 89d:90122**

Varakin, A. S. (*with* Danil'chenko, A. M.; Panishev, A. V.) Solution of the problem of job assignment on processors of a two-level system. (Not in MR)

Vasilenko, S. I. Heuristic algorithms for solving a problem of scheduling theory. (Russian) (*see* **89a:00009**)

Vopálková, Eliška *see* **Fiala, Petr; et al.**, (Not in MR)

Watanabe, Ichie *see* **Nakamura, Zentaro, 89c:90060**

Weiss, Gideon *see* **Pinedo, Michael, 89d:90121**

Wilfong, Gordon T. *see* **Garey, M. R.; et al., 89f:90072**

Yao, David D. *see* **Ross, Keith W., 89j:90151**

Zaruba, V. Ya. Efficient correct planning with counter-generation of data. **89h:90132**

Zawack, D. J. *see* **Adams, Joseph; et al., 89b:90100** *and* **Thompson, G. L., 89b:90111**

Zdrzałka, Stanisław *see* **Nowicki, Eugeniusz, 89a:90071**

Zyabrev, N. B. A problem of optimal scheduling for the production of complex products. (Russian) **89e:90127**

Items with secondary classifications in 90B35

Ahmed, Shams Uddin *see* **Finke, G., 89b:90075**

Ball, Michael O. *see* **Dror, M.; et al., 89b:90074**

Bard, Jonathan F. (*with* Feo, Thomas A.) Operations sequencing in discrete parts manufacturing. **89m:90081**

Błażewicz, J. (*with* Kubiak, W.; Röck, H.; Szwarcfiter, J.) Minimizing mean flow-time with parallel processors and resource constraints. **89a:68023**

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Carey, Malachy (*with* Srinivasan, Ashok) Congested network flows: time-varying demands and start-time policies. **89e:90095**

Castañon, David A. *see* **Luh, Peter B.; et al., 89j:90160**

Chang, Shi Chung *see* **Luh, Peter B.; et al., 89j:90160**

Chen, Guan-Ing (*with* Lai, Ten Hwang) Preemptive scheduling of independent jobs on a hypercube. **89h:68038**

Choi, Hyeong-Ah (*with* Hakimi, S. Louis) Data transfers in networks. **89j:68016**

Cikanek, Dana Grinstead (*with* Slater, P. J.) The k-processing center of a graph. **89e:05114**

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Fay, N. A. *see* **Glazebrook, K. D., 89h:90251**

Feo, Thomas A. *see* **Bard, Jonathan F., 89m:90081**

Finke, G. (*with* Ahmed, Shams Uddin) Network flow methods for the asymmetric traveling salesman problem. **89b:90075**

Foiaş, Ciprian (*with* Tannenbaum, Allen) On the Nehari problem for a certain class of L^∞-functions appearing in control theory. **89g:30066**

Furugyan, M. G. Cyclic processing of data in deterministic real-time systems. (Russian) (*see* **89e:68058**)

Gabow, Harold N. Scheduling UET systems on two uniform processors and length two pipelines. **89j:68059**

Glazebrook, K. D. (*with* Fay, N. A.) Evaluating strategies for generalized bandit problems. **89h:90251**

Golden, B. *see* **Dror, M.; et al., 89b:90074**

Hakimi, S. Louis *see* **Choi, Hyeong-Ah, 89j:68016**

Helmbold, David (*with* Mayr, Ernst) Fast scheduling algorithms on parallel computers. **89h:68042**

Ho, Yu-Chi (*with* Li, Shu; Vakili, Pirooz) On the efficient generation of discrete event sample paths under different system parameter values. **89j:68153**

Hochbaum, Dorit S. (*with* Shmoys, David B.) A polynomial approximation scheme for scheduling on uniform processors: using the dual approximation approach. **89f:68053**

Huang, Mei *see* **Xia, Qing; et al., 89i:90033**

Iliadis, Ilias (*with* Lien, Luke Y.-C.) Resequencing delay for a queueing system with two heterogeneous servers under a threshold-type scheduling. **89b:60218**

Johri, Pravin K. (*with* Katehakis, Michael N.) Scheduling service in tandem queues attended by a single server. **89g:60283**

Kabat, Waldo C. *see* **Parrello, Bruce D.; et al., 89j:68144**

Kapitonova, Yu. V. (*with* Klyaus, P. S.; Kovalenko, N. S.) A mathematical model of the pipeline organization of competing processes. (Russian) **89a:68024**

Katehakis, Michael N. *see* **Johri, Pravin K., 89g:60283**

Klyaus, P. S. *see* **Kapitonova, Yu. V.; et al., 89a:68024**

Konig, Jean-Claude (*with* Robert, Yves; Trystram, Denis) Optimalité d'une classe d'algorithmes d'ordonnancement pour la méthode de Gauss en parallèle. (English summary) [Optimality of a class of scheduling algorithms for parallel Gaussian elimination] **89a:65048**

Kovalenko, N. S. *see* **Kapitonova, Yu. V.; et al., 89a:68024**

Kruskal, Clyde P. (*with* Snir, Marc; Weiss, Alan) The distribution of waiting times in clocked multistage interconnection networks. **89k:68008**

Kubiak, W. *see* **Błażewicz, J.; et al., 89a:68023**

Kunde, Manfred (*with* Langston, Michael A.; Liu, Jin-Ming^2) On a special case of uniform processor scheduling. **89c:68016**

(Kusiak, Andrew) *see* **Analysis, modelling and design of modern production systems, 89g:90126**

van Laarhoven, P. J. M. ★ Theoretical and computational aspects of simulated annealing. **89m:90136**

Lai, T. L. Asymptotic solutions of bandit problems. **89c:62139**

— (*with* Ying, Zhiliang) Open bandit processes and optimal scheduling of queueing networks. **89f:90187**

Lai, Ten Hwang (*with* Sprague, Alan) On the routability of a convex grid. **89e:90086**

— *see also* **Chen, Guan-Ing, 89h:68038**

Langston, Michael A. *see* **Kunde, Manfred; et al., 89c:68016**

Laporte, Gilbert (*with* Mercure, Hélène; Nobert, Yves) Cutting planes based on bin packing solutions for the capacitated vehicle routing problem. **89e:90143**

— (*with* Nobert, Yves; Taillefer, Serge) A branch-and-bound algorithm for the asymmetrical distance-constrained vehicle routing problem. (French summary) **89a:90055**

— (*with* Nobert, Yves; Taillefer, Serge) Solving a family of multi-depot vehicle routing and location-routing problems. **89e:90088**

Lehtonen, Tapani Scheduling jobs with exponential processing times on parallel machines. **89j:68018**

Leung, Joseph Y.-T. *see* **Du, Jianzhong, 89g:68023**

Li, Shu *see* **Ho, Yu-Chi; et al., 89j:68153**

Lien, Luke Y.-C. *see* **Iliadis, Ilias, 89b:60218**

Liu, Jin-Ming^2 *see* **Kunde, Manfred; et al., 89c:68016**

Lueker, G. S. *see* **Coffman, E. G., Jr.; et al., 89e:68045**

Luh, Peter B. (*with* Miao, Xi-Yi; Chang, Shi Chung; Castañon, David A.) Stochastic task selection and renewable resource allocation. **89j:90160**

Mayr, Ernst *see* **Helmbold, David, 89h:68042**

Mercure, Hélène *see* **Laporte, Gilbert; et al., 89e:90143**

Meyer, Wolfgang *see* **Brucker, P., 89d:90170**

Miao, Xi-Yi *see* **Luh, Peter B.; et al., 89j:90160**

Mohr, Th. (*with* Pasche, C.) A parallel shortest path algorithm. (German summary) **89j:90256**

Nagapetyan, R. Sh. A priority system for batch processing. (Russian. Armenian summary) **89g:60293**

Nakonechnyĭ, A. N. A class of stochastic extremal problems with rare events. **89d:93124**

Nobert, Yves *see* **Laporte, Gilbert; et al., 89a:90055; 89e:90088** *and* **89e:90143**

Osborne, M. R. *see* **Ryan, D. M., 89g:90143**

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Pasche, C. *see* **Mohr, Th., 89j:90256**

Puu, Tõnu Catastrophe theory applied to the refraction of traffic. (*see* **89c:00028**)

Reece, Kathleen E. *see* **Bookbinder, James H.**, (Not in MR)

Reva, V. N. On the coincidence of local and global optima of a functional of permutations. (Russian) (*see* **89f:00011**)
Rinnooy Kan, A. H. G. *see* **Coffman, E. G., Jr.; et al., 89e:68045**
Robert, Yves *see* **Konig, Jean-Claude; et al., 89a:65048**
Röck, H. *see* **Błażewicz, J.; et al., 89a:68023**
Ryan, D. M. (*with* Osborne, M. R.) On the solution of highly degenerate linear programmes. **89g:90143**
Sauvé, Michel *see* **Desrosiers, Jacques; et al., 89e:90083**
Selim, S. M. Split vertices in vertex colouring and their application in developing a solution to the faculty timetable problem. **89d:05079**
Sheleva, A. S. Scheduling that is close to optimal for a class of algorithms. (Russian) (*see* **89m:65005**)
Shmoys, David B. *see* **Hochbaum, Dorit S., 89f:68053**
Slater, P. J. *see* **Cikanek, Dana Grinstead, 89e:05114**
Snir, Marc *see* **Kruskal, Clyde P.; et al., 89k:68008**
Soumis, François *see* **Desrosiers, Jacques; et al., 89e:90083**
Sprague, Alan *see* **Lai, Ten Hwang, 89e:90086**
Srinivasan, Ashok *see* **Carey, Malachy, 89e:90095**
Szwarcfiter, J. *see* **Błażewicz, J.; et al., 89a:68023**
Taillefer, Serge *see* **Laporte, Gilbert; et al., 89a:90055** *and* **89e:90088**
Takagi, Hideaki Queuing analysis of polling models. **89f:68001**
Tannenbaum, Allen *see* **Foiaş, Ciprian, 89g:30066**
Totik, V. *see* **Csirik, J., 89k:68063**
Trystram, Denis *see* **Konig, Jean-Claude; et al., 89a:65048**
Vakili, Pirooz *see* **Ho, Yu-Chi; et al., 89j:68153**
Wang, Shi Ying *see* **Xia, Qing; et al., 89i:90033**
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Weiss, Alan *see* **Kruskal, Clyde P.; et al., 89k:68008**
Werner, Frank On the quasi-convexity of a special job shop scheduling problem. **89j:90108**
— Ein adaptives stochastisches Suchverfahren für spezielle Reihenfolgeprobleme. (English and Czech summaries) [An adaptive stochastic search procedure for special sequencing problems] **89f:90196**
de Werra, D. Some models of graphs for scheduling sports competitions. **89i:05139**
(Wilhelm, Wilbert E.) *see* **Analysis, modelling and design of modern production systems, 89g:90126**
Wos, Larry *see* **Parrello, Bruce D.; et al., 89j:68144**
Xia, Qing (*with* Xiang, Nian De; Wang, Shi Ying; Zhang, Bo Ming; Huang, Mei) A new algorithm for nonlinear minimum cost network flow and its application. (Chinese. English summary) **89i:90033**
Xiang, Nian De *see* **Xia, Qing; et al., 89i:90033**
Yang, Qin *see* **Zhang, Yun Zhen, 89j:90111**
Ying, Zhiliang *see* **Lai, T. L., 89f:90187**
Zhang, Bo Ming *see* **Xia, Qing; et al., 89i:90033**
Zhang, Yun Zhen (*with* Yang, Qin) A shortest path algorithm for a system of dispatching goods by truck. (Chinese. English summary) **89j:90111**

Items listed otherwise than by author

Analysis, modelling and design of modern production systems ★ Analysis, modelling and design of modern production systems. **89g:90126**

90B40 Search theory

Assaf, David (*with* Zamir, Shmuel) Continuous and discrete search for one of many objects. **89g:90135**
Balkhi, Zaid T. The generalized linear search problem, existence of optimal search paths. **89d:90123**
Chikriĭ, G. Ts. A class of controllable processes. (Russian) **89m:90089**
Dolgopolov, A. S. A search problem that is connected with coding theory. (Russian. English summary) **89m:90090**
Glushchenko, V. E. Application of the search principles of group decisions in multicriterial problems to systems for the recognition of moving objects. (Russian) (*see* **89h:00001**)
Hōzaki, Ryusuke *see* **Iida, Kōji, 89j:90154**
Hwang, F. K. (*with* Xu, Yong Hua^{2}) Group testing to identify one defective and one mediocre item. **89c:90063**
Iida, Kōji (*with* Hōzaki, Ryusuke) The optimal search plan for a moving target minimizing the expected risk. **89j:90154**
Irodov, V. F. The construction and convergence of evolutional algorithms of random search for self-organization. **89f:90077**
Klimenko, E. V. A discrete group search problem. (Russian) **89h:90133**
Lalley, S. (*with* Robbins, Herbert) Stochastic search in a square and on a torus. **89c:90064**
— (*with* Robbins, Herbert) Stochastic search in a convex region. **89f:90078**
Nakai, Teruhisa Continuous-time search model with improvements of detection rates. (Japanese summary) **89c:90065**
— Search models with continuous effort under various criteria. (Japanese summary) **89j:90155**
Pak, Tae Je The study of extremum problem by extension of random search information. (Korean. English summary) **89k:90091**
— Studies on random search problem of multiextremal points. (Korean. English summary) **89k:90092**
Robbins, Herbert *see* **Lalley, S., 89c:90064** *and* **89f:90078**
Xu, Yong Hua^{2} *see* **Hwang, F. K., 89c:90063**
Zamir, Shmuel *see* **Assaf, David, 89g:90135**

Items with secondary classifications in 90B40

Abramowski, S. (*with* Müller, Heinrich Augustinus) Collision avoidance for nonrigid objects. (German summary) **89h:68140**
Aigner, M. ★ Combinatorial search. **89k:68021**
Baston, V. J. (*with* Bostock, F. A.) A continuous game of ambush. **89a:90190**
Bostock, F. A. *see* **Baston, V. J., 89a:90190**
Canny, John ★ The complexity of robot motion planning. **89m:68142**
Du, Ding Zhu (*with* Ko, Ker-I) Some completeness results on decision trees and group testing. **89a:68069**
Hwang, F. K. *see* **Yao, Y.-C., 89e:90208**
Ko, Ker-I *see* **Du, Ding Zhu, 89a:68069**
(Ljung, Lennart) *see* **Tarasenko, George S., 89h:90172**
Müller, Heinrich Augustinus *see* **Abramowski, S., 89h:68140**
Pelc, Andrzej Prefix search with a lie. **89j:68027**
Tarasenko, George S. ★ Stochastic optimization in the Soviet Union. **89h:90172**
Wiedermann, Juraj ★ Searching algorithms. **89d:68004**
Yao, Y.-C. (*with* Hwang, F. K.) A fundamental monotonicity in group testing. **89e:90208**

90B50 Decision theory, including multiple objectives [see also 90A05, 90C31, 90D35]

Castañon, David A. *see* **Luh, Peter B.; et al., 89j:90160**
Chakraborty, Tushar Kanti A single sampling attribute plan of given strength based on fuzzy goal programming. (Not in MR)
Chang, Shi Chung *see* **Luh, Peter B.; et al., 89j:90160**
Chumakov, V. V. *see* **Kononenko, A. F., 89j:90159**
Clinton, Roy J. (*with* Troutt, Marvin D.) Toward optimal scaling in the method of abstract forces for interactive multiple criteria optimization. (*see* **89d:00007**)
Cosier, Richard A. (*with* Dalton, Dan R.) Presenting information under conditions of uncertainty and availability: some recommendations. (Not in MR)
Cserny, László The analysis of decision-making systems. (*see* **89g:00018**)
Czuchra, Waldemar Allocation of discrete resource in order transmission hierarchical organization. **89j:90156**
Dalton, Dan R. *see* **Cosier, Richard A.**, (Not in MR)
Dantzig, George B. Planning under uncertainty using parallel computing. **89h:90134**
Dong, Wei Min (*with* Wong, Felix S.) Interactive fuzzy variables and fuzzy decisions. **89j:90157**
Dong, Ze Qing On decision analysis. (Chinese) (Not in MR)
Ester, Jochen Multicriteria fuzzy decisions. (*see* **89g:00018**)
Fotheringham, A. Stewart (*with* Knudsen, Daniel C.) Modeling discontinuous change in the spatial pattern of retail outlets: a methodology. (*see* **89e:90072**)
Fraser, Cynthia (*with* Ginter, James L.) Competitive dealing strategy and deal value escalation. (Not in MR)
Ginter, James L. *see* **Fraser, Cynthia**, (Not in MR)
Gorbachev, O. G. (*with* Natan, A. A.) Optimal sequential procedures for classification and selection of useful objects. **89j:90158**
(Greenberg, Harvey J.) *see* **Mathematical models for decision support, 89g:90136**
Intriligator, Michael D. (*with* Sheshinski, Eytan) Toward a theory of planning. **89b:90112**
Karwan, Mark H. *see* **Kõksalan, Murat; et al., 89k:90093**
Knudsen, Daniel C. *see* **Fotheringham, A. Stewart**, (**89e:90072**)
Kõksalan, Murat (*with* Karwan, Mark H.; Zionts, Stanley) An approach for solving discrete alternative multiple criteria problems involving ordinal criteria. **89k:90093**
Kononenko, A. F. (*with* Chumakov, V. V.) Decision making in a two-level hierarchical control system in the presence of exogenous noncontrollable factors. **89j:90159**
(Lootsma, Freerk A.) *see* **Mathematical models for decision support, 89g:90136**
Luh, Peter B. (*with* Miao, Xi-Yi; Chang, Shi Chung; Castañon, David A.) Stochastic task selection and renewable resource allocation. **89j:90160**
Malakooti, B. (*with* Ravindran, A.) Experiments with an interactive paired comparison simplex method for MOLP problems. **89d:90124**
Miao, Xi-Yi *see* **Luh, Peter B.; et al., 89j:90160**
(Mitra, Gautam) *see* **Mathematical models for decision support, 89g:90136**
Moore, James C. (*with* Richmond, William B.; Whinston, Andrew B.) Mathematical basis for decision support systems. (*see* **89g:90136**)
— (*with* Richmond, William B.; Whinston, Andrew B.) A decision theoretic approach to file search. **89i:90044**
Mosekilde, Erik *see* **Rasmussen, Dan René, 89b:90114**
Natan, A. A. *see* **Gorbachev, O. G., 89j:90158**
Nemura, Antanas (*with* Plukaitė, Danute) Approximate inversion of nonlinear functions. (Russian. Lithuanian summary) **89a:90072**
Ōstermark, Ralf Optimal compromising within a multicriterial conflict zone. **89b:90113**
Pilipenko, A. V. ★ Пропорции в науке. (Russian) [Proportions in science] **89h:90135**
Plukaitė, Danute *see* **Nemura, Antanas, 89a:90072**
Rasmussen, Dan René (*with* Mosekilde, Erik) Bifurcations and chaos in a generic management model. **89b:90114**
Ravindran, A. *see* **Malakooti, B., 89d:90124**
Richmond, William B. *see* **Moore, James C.; et al., 89i:90044** *and* (**89g:90136**)
(Rijckaert, M. J.) *see* **Mathematical models for decision support, 89g:90136**
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Sheshinski, Eytan *see* **Intriligator, Michael D., 89b:90112**
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athematical models for decision support ★ Mathematical models for decision support. **89g:90136**

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ATO Advanced Study Institute:

Mathematical Models for Decision Support ★ Mathematical models for decision support. **89g:90136**

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Morin, Thomas L. *see* **Kincaid, Rex K.; et al.,** (Not in MR)
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(Guddat, Jürgen) *see* **Advances in mathematical optimization, 89b:90117**
(Hollatz, Horst) *see* **Advances in mathematical optimization, 89b:90117**
(Kall, P.) *see* **Advances in mathematical optimization, 89b:90117**
(Klatte, Diethard) *see* **Advances in mathematical optimization, 89b:90117**
(Kummer, Bernd) *see* **Advances in mathematical optimization, 89b:90117**
(Lommatzsch, Klaus) *see* **Advances in mathematical optimization, 89b:90117** *and* **Papers on mathematical programming and related areas, 89b:90118**
(Mackley, Lynne) *see* **Beale, Evelyn Martin Lansdowne, 89f:90079**
Mandel, Reinhard *see* **Bank, Bernd; et al., 89c:90069**
(Mason, F.) *see* **Stochastics in combinatorial optimization, 89e:90130**
(Megiddo, Nimrod) *see* **Progress in mathematical programming, 89h:90138**
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Sullivan, Francis E. *see* **Peressini, Anthony L.; et al., 89f:90080**
(Tammer, Klaus) *see* **Advances in mathematical optimization, 89b:90117**
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(Wallace, Stein W.) *see* **Algorithms and model formulations in mathematical programming, 89k:90094**
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Advances in mathematical optimization ★ Advances in mathematical optimization. **89b:90117**
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Arbeiten zur mathematischen Optimierung und zu verwandten Gebieten ★ Arbeiten zur mathematischen Optimierung und zu verwandten Gebieten. (German) [Papers on mathematical programming and related areas] **89b:90118**
Bergen ★ Algorithms and model formulations in mathematical programming. **89k:90094**
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Papers on mathematical programming and related areas ★ Arbeiten zur mathematischen Optimierung und zu verwandten Gebieten. (German) [Papers on mathematical programming and related areas] **89b:90118**
Progress in mathematical programming ★ Progress in mathematical programming. **89h:90138**
School:
  Stochastics in Combinatorial Optimization ★ Stochastics in combinatorial optimization. **89e:90130**
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Fourer, Robert *see* **Bixby, Robert E., 89b:90120**

Freund, Robert M. An analog of Karmarkar's algorithm for inequality constrained linear programs, with a "new" class of projective transformations for centering a polytope. **89b:90121**

Frumkin, M. A. Systolic calculator for solving linear programming problems. (Not in MR)

Fujishige, Satoru *see* **Tamura, Akihisa; et al., 89j:90173**

Fukuda, Komei *see* **Tamura, Akihisa; et al., 89j:90173**

Fullér, Róbert On a special type of fuzzy linear programming. **89g:90141**

Gal, Tomas (*with* Kruse, Hermann-Josef; Zörnig, Peter) Survey of solved and open problems in the degeneracy phenomenon. **89j:90169**

Gamberelli, Gianfranco Classes of rational polyhedra. (Russian and Polish summaries) **89b:90122**

Ganshin, G. S. ★ Методы оптимизации и решение уравнений. (Russian) [Methods for the optimization and solution of equations] **89i:90047**

de Ghellinck, G. (*with* Vial, Jean-Philippe) An extension of Karmarkar's algorithm for solving a system of linear homogeneous equations on the simplex. **89d:90129**

Glezer, N. N. *see* **Popov, L. D.; et al.**, (**89j:00018**)

Goberna, M. A. (*with* López, Marco Antonio) Discrete approximation in linear semi-infinite programming. **89a:90080**

— (*with* López, Marco Antonio) Reduction and discrete approximation in linear semi-infinite programming. **89f:90081**

— Some properties of systems whose characteristic cone is closed. (Spanish. English summary) **89i:90048**

— (*with* López, Marco Antonio) Optimal value function in semi-infinite programming. **89m:90097**

Goldfarb, Donald (*with* Mehrotra, Sanjay) Relaxed variants of Karmarkar's algorithm for linear programs with unknown optimal objective value. **89b:90123**

— (*with* Mehrotra, Sanjay) A relaxed version of Karmarkar's method. **89i:90049**

Gondzio, Jacek Stable variant of the simplex method for solving supersparse linear programs. **89j:90170**

Gonzaga, Clovis C. Conical projection algorithms for linear programming. **89m:90098**

Greenberg, Harvey J. Advanced basis construction in linear programming. **89d:90130**

Gu, Yi Ming^2 Analyses of some termination criteria for the simplex evolutionary technique. (Chinese. English summary) **89m:90099**

Hanuscheck, Randolf *see* **Rommelfanger, Heinrich; et al., 89j:90171**

Hattersley, Bob (*with* Wilson, Julia) A dual approach to primal degeneracy. **89m:90100**

Haugland, Dag (*with* Wallace, Stein W.) Solving many linear programs that differ only in the righthand side. **89k:90097**

Helgason, R. V. (*with* Kennington, Jeff; Zaki, H. A.) A parallelization of the simplex method. **89h:90143**

Hettich, R. (*with* Margraff, G.) Some experiments with Karmarkar's algorithm for linear programming. **89g:90142**

Ho, James K. (*with* Lee, Tak C.; Sundarraj, R. P.) Decomposition of linear programs using parallel computation. **89k:90098**

— (*with* McKenney, William A.) Triangularity of the basis in linear programs for material requirements planning. (Not in MR)

Hoffman, Karla L. (*with* Padberg, Manfred) LP-based combinatorial problem solving. **89b:90124**

Hollatz, Horst (*with* Schaper, Michael) LINOPT—ein Programmsystem zur linearen Optimierung. [LINOPT—a program system for linear optimization] (Not in MR)

— LINOPT—numerical treatment of linear programming models. (*see* **89b:90118**)

Ichihashi, H. *see* **Inuiguchi, Masahiro; et al., 89b:90126**

Imai, Hiroshi On the convexity of the multiplicative version of Karmarkar's potential function. **89b:90125**

Inuiguchi, Masahiro (*with* Ichihashi, H.; Tanaka, Hideo) Fuzzy linear programming using a multiattribute value function. (Japanese. English summary) **89b:90126**

Ivushkina, E. A. Mathematical programming with randomness and fuzziness. (Russian) **89h:90144**

Jackson, Peter L. (*with* Lynch, David F.) Revised Dantzig-Wolfe decomposition for staircase-structured linear programs. **89f:90082**

Karp, Richard M. *see* **Adler, Ilan; et al., 89m:90094**

Kennington, Jeff *see* **Helgason, R. V.; et al., 89h:90143**

Khachiyan, L. G. ★ Сложность задач линейного программирования. (Russian) [Complexity of linear programming problems] **89b:90127**

Khripun, M. S. *see* **Popov, L. D.; et al.**, (**89j:00018**)

Kim, Buy Yong *see* **Sherali, H. D.; et al., 89h:90147**

Klafszky, Emil (*with* Terlaky, Tamás) The "Bland" pivoting rule for the primal and dual simplex method. (Hungarian. English summary) **89a:90081**

— (*with* Terlaky, Tamás) Remarks on the feasibility problem of oriented matroids. **89m:90101**

Kojima, Masakazu Determining basic variables of optimal solutions in Karmarkar's new LP algorithm. **89b:90128**

— *see also* **Ye, Yinyu, 89g:90148** *and* **Tamura, Akihisa; et al., 89j:90173**

Kornilova, G. F. *see* **Popov, L. D.; et al.**, (**89j:00018**)

Korotaeva, L. T. *see* **Popov, L. D.; et al.**, (**89j:00018**)

Kortanek, K. O. (*with* Zhu, Jishan) New purification algorithms for linear programming. **89e:90132**

Kostina, M. A. *see* **Popov, L. D.; et al.**, (**89j:00018**)

Kovačević-Vujčić, V. V. *see* **Ašić, M. D., 89k:90095**

Kr″stev, A. I. On the fundamental duality theorem in linear optimization. (Bulgarian. English and Russian summaries) **89e:90133**

Kruse, Hermann-Josef *see* **Gal, Tomas; et al., 89j:90169**

Kudin, V. I. *see* **Volkovich, V. L.; et al., 89f:90086** *and* **89m:90107**

Lee, Tak C. *see* **Ho, James K.; et al., 89k:90098**

Li, Ming Shi (*with* Cai, Jing Qiu) Perturbation analysis for a class of common linear programming problems. (Chinese) (Not in MR)

Li, Wen Qi The artificial constraint technique for finding an initial dual feasible solution. (Chinese) (Not in MR)

Lin, Yun On a paradox in general linear programming. (Chinese) (Not in MR)

Liu, An Lin Duality of semi-infinite linear programs. (Chinese. English summary) **89m:90102**

Liu, Gao Dian An improved algorithm for linear programming and its basic procedure. (Chinese. English summary) (Not in MR)

Lodwick, Weldon A. The use of interval arithmetic in uncovering structure of linear systems. (*see* **89j:65011**)

López, Marco Antonio *see* **Goberna, M. A., 89a:90080**; **89f:90081** *and* **89m:90097**

Lovinescu, Cătălina Flow in matroids with parallel elements. (Romanian summary) **89a:90082**

Lozovanu, D. D. On the problem of the establishment of compatibility of systems of linear inequalities with right-hand sides that depend on the parameters. (Russian) **89d:90131**

Lucidi, S. A new result in the theory and computation of the least-norm solution of a linear program. **89d:90132**

— A finite algorithm for the least two-norm solution of a linear program. **89c:90071**

Lynch, David F. *see* **Jackson, Peter L., 89f:90082**

Magnanti, T. L. (*with* Orlin, J. B.) Parametric linear programming and anti-cycling pivoting rules. **89h:90145**

Margraff, G. *see* **Hettich, R., 89g:90142**

Marsili-Libelli, S. (*with* Castelli, M.) An adaptive search algorithm for numerical optimization. **89a:90083**

Marsten, R. E. *see* **Shanno, D. F., 89c:90073**

McKenney, William A. *see* **Ho, James K.**, (Not in MR)

Megiddo, Nimrod Linear programming (1986). **89f:90083**

Mehrotra, Sanjay *see* **Goldfarb, Donald, 89b:90123** *and* **89i:90049**

Mertzios, B. G. *see* **Papamarkos, N.; et al., 89e:90136**

Mogilevskaya, R. L. (*with* Shvartsman, P. A.) On the correction of free terms of an inconsistent system of linear inequalities. (Russian) **89f:90084**

Morshedi, A. M. *see* **Dennis, John E., Jr.; et al., 89a:90079**

Myers, Danny C. (*with* Shih, Wei) A constraint selection technique for a class of linear programs. **89e:90134**

— *see also* **Sherali, H. D., 89b:90132**

Nazareth, J. L. Homotopy techniques in linear programming. **89b:90129**

Nemirovskiĭ, A. S. An algorithm of the Karmarkar type. **89d:90133**

— A new polynomial algorithm for linear programming. **89i:90050**

Nenakhov, È. I. A method of centers of gravity of simplexes. (Russian) **89d:90134**

— *see also* **Dul′nev, A. L., 89j:90168**

Nenakhova, S. G. Investigation of a method for solving a system of linear inequalities. (Russian) **89d:90135**

Nesterov, Yu. E. A linear programming method with cubic complexity. (Russian) **89e:90135**

Nguyen Dinh Hoa Stability of linear programming problems in Banach spaces. (Russian and Polish summaries) **89m:90103**

Novozhilova, M. V. *see* **Stoyan, Yu. G., 89k:90099**

Ogryczak, W. A counterexample to transformations in multiphase and sequential linear goal programming. (Russian and Polish summaries) **89h:90146**

Orlin, J. B. *see* **Magnanti, T. L., 89h:90145**

Osborne, M. R. *see* **Ryan, D. M., 89g:90143**

Ospanov, S. S. The method of goal-directed exclusion for the solution of a linear programming problem. (Russian. Kazakh summary) **89d:90136**

Padberg, Manfred *see* **Hoffman, Karla L., 89b:90124**

Papamarkos, N. (*with* Vachtsevanos, G.; Mertzios, B. G.) On the optimum approximation of real rational functions via linear programming. **89e:90136**

Popov, L. D. (*with* Kornilova, G. F.; Korotaeva, L. T.; Glezer, N. N.; Kostina, M. A.; Khripun, M. S.) A system of DELTA-PLAN software for the numerical analysis of improper problems in linear programming for the BÈSM-6 computer. (Russian) (*see* **89j:00018**)

Provan, J. Scott Substitutes and complements in constrained linear models. **89c:90072**

Qi, Li Qun *see* **Birge, John R., 89k:90096**

Renegar, James A polynomial-time algorithm, based on Newton's method, for linear programming. **89b:90130**

Rohn, J. Sensitivity characteristics for the linear programming problem. **89f:90085**

Rommelfanger, Heinrich (*with* Hanuscheck, Randolf; Wolf, Jochen) Linear programming with fuzzy objectives. **89j:90171**

van Rooyen, M. *see* **Snyman, J. A., 89m:90104**

Ryan, D. M. (*with* Osborne, M. R.) On the solution of highly degenerate linear programmes. **89g:90143**

Schaper, Michael *see* **Hollatz, Horst**, (Not in MR)

Sergienko, I. V. (*with* Shilo, V. P.) An approach to the construction of approximate solutions of Boolean linear programming problems. **89b:90131**

Shamir, Ron *see* **Adler, Ilan; et al., 89m:90094**

Shanno, D. F. (*with* Marsten, R. E.) A reduced-gradient variant of Karmarkar's algorithm and null-space projections. **89c:90073**

Sharda, Ramesh *see* **Bynum, Bryant**, (**89d:00007**)

Shelest, V. A. A modification of the Lemke-Ravindran algorithm. (Russian) **89j:90172**

Sherali, H. D. (*with* Myers, Danny C.) Dual formulations and subgradient optimization strategies for linear programming relaxations of mixed-integer programs. **89b:90132**

— (*with* Skarpness, Bradley O.; Kim, Buy Yong) An assumption-free convergence analysis for a perturbation of the scaling algorithm for linear programs, with application to the L_1 estimation problem. **89h:90147**

Shih, Wei *see* **Myers, Danny C., 89e:90134**

Shilo, V. P. *see* **Sergienko, I. V., 89b:90131**

Shub, Michael On the asymptotic behavior of the projective rescaling algorithm for linear programming. **89a:90084**

Shvartsman, P. A. *see* **Mogilevskaya, R. L., 89f:90084**

Skaletskiĭ, V. V. A modification of the branch-and-bound method for solving a sequence of problems. **89d:90137**

Skarpness, Bradley O. *see* **Sherali, H. D.; et al., 89h:90147**

Sloan, S. W. A steepest edge active set algorithm for solving sparse linear programming problems. **89h:90148**

Snyman, J. A. (*with* van Rooyen, M.) A multiplex algorithm for linear programming problems. **89m:90104**

Stohr, Edward A. Automated support for formulating linear programs. (*see* **89g:90136**)

Stoyan, Yu. G. (*with* Novozhilova, M. V.) Search for a local extremum of a linear objective function on a lattice of linear inequalities of a special form. (Russian. English summary) **89k:90099**

Sundarraj, R. P. *see* **Ho, James K.; et al., 89k:90098**

Takehara, Hitoshi *see* **Tamura, Akihisa; et al., 89j:90173**

Tamura, Akihisa (*with* Takehara, Hitoshi; Fukuda, Komei; Fujishige, Satoru; Kojima, Masakazu) A dual interior primal simplex method for linear programming. (Japanese summary) **89j:90173**

Tanaka, Hideo *see* **Inuiguchi, Masahiro; et al., 89b:90126**

Terlaky, Tamás *see* **Klafszky, Emil, 89a:90081** *and* **89m:90101**

Todd, M. J. Modifying the Forrest-Tomlin and Saunders updates for linear programming problems with variable upper bounds. **89d:90138**

— Improved bounds and containing ellipsoids in Karmarkar's linear programming algorithm. **89k:90100**

— Exploiting special structure in Karmarkar's linear programming algorithm. **89g:90144**

Trần Vũ Thiệu A note on the solution of bilinear programming problems by reduction to concave minimization. **89m:90105**

Trofimov, S. P. Linear programming problems with a duality gap in general spaces. (Russian) **89g:90145**

— A criterion for the duality gap for semi-infinite problems of linear programming. (Russian) **89k:90101**

Troutt, Marvin D. Estimation of the linear programming technological coefficient matrix by a principle of maximum efficiency. (*see* **89d:00007**)

Turner, Kathryn *see* **Dennis, John E., Jr.; et al., 89a:90079**

(Ünlü, G.) *see* **Candler, Wilfred**, (Not in MR)

Vachtsevanos, G. *see* **Papamarkos, N.; et al., 89e:90136**

Vatolin, A. A. Correction of inconsistent linear inequality system with regard to restrictions on parameter variation. **89g:90147**

— A general realization of a duality scheme for improper problems of linear programming. (Russian) **89g:90146**

Verdegay, J. L. *see* **Delgado, M.; et al., 89a:90078** *and* **89j:90167**

Vial, Jean-Philippe A fully polynomial time projective method. **89d:90139**

— *see also* **de Ghellinck, G., 89d:90129**

Vila, M. A. *see* **Delgado, M.; et al., 89a:90078** *and* **89j:90167**

Vlach, Milan On aggregation of variables in linear programming. **89m:90106**

Voĭnalovich, V. M. *see* **Volkovich, V. L.; et al., 89f:90086** *and* **89m:90107**

Volkovich, V. L. (*with* Voĭnalovich, V. M.; Kudin, V. I.) A relaxational scheme of the row simplex method. **89f:90086**

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Wallace, Stein W. *see* **Haugland, Dag, 89k:90097**

Wang, Xian Yu (*with* Wang, Yin Qing) A computational algorithm for a class of parametric linear programming problems. (Chinese. English summary) **89k:90102**

Wang, Yin Qing *see* **Wang, Xian Yu, 89k:90102**

Wang, Zhe Min A finite conformal-elimination free algorithm over oriented matroid programming. **89d:90140**

Wei, Zi Luan An interior point method for linear programming. **89h:90149**

— An exact solution to linear programming using an interior point method. **89j:90174**

Werners, Brigitte M. Aggregation models in mathematical programming. (*see* **89g:90136**)

Wilson, Julia *see* **Hattersley, Bob, 89m:90100**

Wolf, Jochen *see* **Rommelfanger, Heinrich; et al., 89j:90171**

Ye, Yinyu (*with* Kojima, Masakazu) Recovering optimal dual solutions in Karmarkar's polynomial algorithm for linear programming. **89g:90148**

— Karmarkar's algorithm and the ellipsoid method. **89a:90085**

Yo, Song Tae Improvement of recurrence formula (linear programming). (Korean. English summary) **89k:90103**

Zaki, H. A. *see* **Helgason, R. V.; et al., 89h:90143**

Zhu, Jishan *see* **Kortanek, K. O., 89e:90132**

Zimmermann, Hans-J. Interactive decision support for semi-structured mathematical programming problems. (*see* **89g:90136**)

Zörnig, Peter *see* **Gal, Tomas; et al., 89j:90169**

Items with secondary classifications in 90C05

Ahn, Sang (*with* Cooper, Colin; Cornuejols, Gerard; Frieze, A. M.) Probabilistic analysis of a relaxation for the k-median problem. **89c:90048**

Alidrisi, Mustafa M. Linear programming model for the optimal control of a queueing network. **89b:90086**

Antunes, C. H. *see* **Clímaco, J. C. N., 89h:90220**

Ašić, M. D. (*with* Kovačević-Vujčić, V. V.) An implementation of a semi-definite programming method to Chebyshev approximation problems. **89m:49060**

Astaf'ev, N. N. Dual regularization of a problem of semi-infinite linear programming (application to problems of convex programming). (Russian) **89g:90206**

Batson, Robert G. Necessary and sufficient conditions for boundedness of extreme points of unbounded convex sets. **89d:52006**

Blyumin, S. L. (*with* Denisenko, Yu. I.; Milovidov, S. P.) On the investigation and solution of integer systems of linear equations. (Russian) **89h:65055**

Brègman, L. M. (*with* Fokin, I. N.) Methods for determining equilibrium states in polymatrix games with zero sum. (Russian) **89f:90204**

Chen, Kai Zhou (*with* Wang, Kong Ming) A new continued fraction algorithm and its convergence. (Chinese. English summary) **89j:65049**

Chentsov, A. G. *see* **Sesekin, A. N., 89j:90272**

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Cooper, Colin *see* **Ahn, Sang; et al., 89c:90048**

Cornuejols, Gerard *see* **Ahn, Sang; et al., 89c:90048**

Davydov, A. A. (*with* Tombak, L. M.) The number of words of minimal weight in block codes. **89m:94018**

De Leone, R. *see* **Mangasarian, O. L., 89a:90151**

Denisenko, Yu. I. *see* **Blyumin, S. L.; et al., 89h:65055**

Feautrier, Paul Parametric integer programming. (French summary) **89m:90112**

Fokin, I. N. *see* **Brègman, L. M., 89f:90204**

Frieze, A. M. *see* **Ahn, Sang; et al., 89c:90048**

Fülöp, J. A finite procedure to generate feasible points for the extreme point mathematical programming problem. **89g:90154**

Gershovich, V. I. (*with* Likhovid, A. P.; Priyatel′, A. M.) Quadratic smoothing in a decompositional approach to the solution of linear programming problems of production-transportation type. (Russian) **89h:90152**

Goberna, M. A. (*with* Jornet, V.) A note about linear inequality systems and duality. (German summary) **89a:90109**

— (*with* López, Marco Antonio) A theory of linear inequality systems. **89g:15014**

Guseva, I. L. *see* **Vasil′kov, D. A.; et al., 89k:46090**

Hoffman, Alan J. (*with* Tucker, Alan C.) Greedy packing and series-parallel graphs. **89e:05140**

Hu, Hui An algorithm for rescaling a matrix positive definite. **89d:65046**

Ichimori, Tetsuo *see* **Maeda, Shigeru, 89h:26017**

Itskovich, È. L. (*with* Sorkin, L. R.) Statistical optimization of continuous production: formulation of the problem, solution and realization. (Not in MR)

Jornet, V. *see* **Goberna, M. A., 89a:90109**

Kabe, D. G. On solving hypercomplex linear and quadratic programming problems. **89j:90197**

Käufl, Thomas Reasoning about systems of linear inequalities. (*see* **89c:68004**)

Kovačević-Vujčić, V. V. *see* **Ašić, M. D., 89m:49060**

Likhovid, A. P. *see* **Gershovich, V. I.; et al., 89h:90152**

López, Marco Antonio *see* **Goberna, M. A., 89g:15014**

Lozovanu, D. D. Duality principle for systems of linear inequalities with the right-hand sides depending on parameters. **89j:15032**

Lyapidevskiĭ, V. K. *see* **Vasil′kov, D. A.; et al., 89k:46090**

Maculan, Nelson A new linear programming formulation for the shortest s-directed spanning tree problem. **89h:05026**

Maeda, Shigeru (*with* Ichimori, Tetsuo) Unimodality of certain functions of several variables. **89h:26017**

Mangasarian, O. L. (*with* De Leone, R.) Parallel successive overrelaxation methods for symmetric linear complementarity problems and linear programs. **89a:90151**

Milovidov, S. P. *see* **Blyumin, S. L.; et al., 89h:65055**

Murphy, Frederic H. A knowledgebase for formulating linear programs. (*see* **89g:90136**)

Nazareth, J. L. ★ Computer solution of linear programs. **89g:65078**

Panasenko, Andreĭ Viktorovich Approximate solution of a Boolean integer linear programming problem with a multidimensional parameter in the right-hand side. (Russian. English summary) **89i:90054**

Panin, V. M. A linear finite penalty method with controllable ε-descent. (Russian) **89c:90097**

Piehler, Joachim The global rank of Gomory cuts. **89g:90156**

Priyatel′, A. M. *see* **Gershovich, V. I.; et al., 89h:90152**

Rustem, B. (*with* Velupillai, K.) Objective functions and the complexity of policy design. **89a:90105**

Sakaguchi, Minoru Linear programming formulations for games with multiple payoffs. **89c:90112**

Sesekin, A. N. (*with* Chentsov, A. G.) An infinite-dimensional mathematical programming problem. (Russian. English summary) **89j:90272**

Shmelëv, V. V. The method of exact penalty functions for the solution of linear and integer linear programming problems. (Russian) (Not in MR)

Sommerschuh, J. Variablenfixierungen in gemischt-ganzzahligen linearen 0-1-Optimierungsaufgaben. (English summary) [Fixing of variables in mixed integer linear 0-1 optimization problems] **89h:90161**

Sorkin, L. R. *see* **Itskovich, È. L.**, (Not in MR)

Tan, Ze Guang A proof of the finite basis theorem for polyhedra. (Chinese. English summary) **89k:90182**

Tombak, L. M. *see* **Davydov, A. A., 89m:94018**

Truemper, Klaus *see* **Tseng, F. T., 89b:05070**

Tseng, F. T. (*with* Truemper, Klaus) Addendum: "A decomposition of the matroids with the max-flow min-cut property" [Discrete Appl. Math. **15** (1986), no. 2-3, 329–364; MR 88b:05046]. **89b:05070**

Tucker, Alan C. *see* **Hoffman, Alan J., 89e:05140**

Vajda, Steven An application of the simplex method to manpower planning. **89j:90181**

Vasil′kov, D. A. (*with* Guseva, I. L.; Lyapidevskiĭ, V. K.) An estimate for the response of a detector of approximations of spectral characteristics. (Russian) **89k:46090**

Velupillai, K. *see* **Rustem, B., 89a:90105**

Wang, Kong Ming *see* **Chen, Kai Zhou, 89j:65049**

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89m:90144

Watson, G. A. Data fitting by positive sums of exponentials. **89a:65030**

Yang, Ya Guang Fuzzy method for solving gray parameter linear programming. **89h:90234**

Zhang, Jian Zhong Duality and sensitivity analysis of constrained MDI problems. (Chinese. English summary) **89b:90217**

90C06 Large scale linear programming

Coleman, Thomas F. A chordal preconditioner for large-scale optimization. **89d:90141**

Luss, Hanan (*with* Smith, Donald Robert) Multiperiod allocation of limited resources: a minimax approach. **89e:90137**

Smith, Donald Robert *see* **Luss, Hanan, 89e:90137**

Vizvári, Béla Global heuristic methods in discrete programming: a stochastic approach. (Hungarian. English summary) **89j:90175**

Items with secondary classifications in 90C06

Bisschop, Johannes J. Language requirements for a priori error checking and model reduction in large-scale programming. (*see* **89g:90136**)

Das, Chakradhar (*with* Patel, Gokulananda) Bounds for aggregated solid transportation problem and an improved disaggregation method. (Serbo-Croatian summary) **89j:90177**

Kuntsevich, A. V. *see* **Zhurbenko, N. G., 89j:90182**

Patel, Gokulananda *see* **Das, Chakradhar, 89j:90177**

Zhurbenko, N. G. (*with* Kuntsevich, A. V.) Efficiency of a two-stage method for solving multicommodity transportation problems on the basis of an r-algorithm. (Russian) **89j:90182**

90C08 Special problems of linear programming (transportation and multi-index problems, etc.)

Agarwal, Ashwani Kumar *see* **Prakash, Satya; et al., 89e:90139**

Andonov, R. A. Finding facets of the knapsack polytope which cut off a given point. **89j:90176**

Bakshi, H. C. *see* **Bandopadhyaya, Lakshmisree; et al., 89i:90051**

Bandopadhyaya, Lakshmisree (*with* Bakshi, H. C.; Puri, M. C.) Multi-index transportation problem with mixed type of axial constraints. **89i:90051**

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Cascetta, Ennio (*with* Nguyen, Sang) A unified framework for estimating or updating origin/destination matrices from traffic counts. (Not in MR)

Chen, Zhong Shi A table method for transportation problems without initial solution. (Chinese. English summary) **89f:90087**

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Denardo, Eric V. (*with* Rothblum, Uriel G.; Swersey, Arthur J.) A transportation problem in which costs depend on the order of arrival. **89c:90074**

Emelichev, V. A. (*with* Kravtsov, M. K.; Krachkovskiĭ, A. P.) New results in the combinatorial theory of transportation polytopes. (Russian) **89e:90138**

— *see also* **Kravtsov, M. K., 89f:90088**

Gambarov, L. A. Systems optimization of multidimensional problems of production-transportation type. (Russian) **89h:90151**

Geetha, S. (*with* Vartak, M. N.) Time-cost tradeoff in a three-dimensional assignment problem. **89m:90108**

Gershovich, V. I. (*with* Likhovid, A. P.; Priyatel′, A. M.) Quadratic smoothing in a decompositional approach to the solution of linear programming problems of production-transportation type. (Russian) **89h:90152**

Hassin, Refael (*with* Zemel, Eitan) Probabilistic analysis of the capacitated transportation problem. **89d:90142**

Hearn, Donald W. *see* **Barton, Russell R.; et al.,** (Not in MR)

Intrator, Jacob (*with* Szwarc, Włodzimierz) An inductive property of the transportation problem. **89k:90105**

Kausmann, Ulrich Näherungsverfahren für das Transportproblem. [Approximation procedures for the transportation problem] **89b:90133**

Klincewicz, John G. Implementing an "exact" Newton method for separable convex transportation problems. **89j:90178**

Korsnikov, A. D. Planar three-index transportation problems with dominating index. (German summary) **89b:90134**

Krachkovskiĭ, A. P. *see* **Emelichev, V. A.; et al., 89e:90138**

Kravtsov, M. K. (*with* Emelichev, V. A.) Some problems of polyhedral combinatorics in generalized transportation problems. (Russian) **89f:90088**

— A proof of the Dubois conjecture on the maximum number of vertices of a symmetric transportation polytope. (Russian. English summary) **89m:90109**

— *see also* **Emelichev, V. A.; et al., 89e:90138**

Kuntsevich, A. V. *see* **Zhurbenko, N. G., 89j:90182**

Lawphongpanich, Siriphong *see* **Barton, Russell R.; et al.,** (Not in MR)

Likhovid, A. P. *see* **Gershovich, V. I.; et al., 89h:90152**

Lueker, G. S. A note on the average-case behavior of a simple differencing method for partitioning. **89b:90135**

Maculan, Nelson *see* **Campello, Ruy E., 89h:90150**

Nguyen, Sang *see* **Cascetta, Ennio,** (Not in MR)

Paparrizos, Konstantinos A nondual signature method for the assignment problem and a generalization of the dual simplex method for the transportation problem. (French summary) **89k:90106**

Patel, Gokulananda The transportation problem with mixed type of constraints. **89b:90136**

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Prakash, Satya (*with* Agarwal, Ashwani Kumar; Shah, Sangeeta) Nondominated solutions of cost-time trade-off transportation and assignment problems. **89e:90139**

Priyatel′, A. M. *see* **Gershovich, V. I.; et al., 89h:90152**

Puri, M. C. *see* **Bandopadhyaya, Lakshmisree; et al., 89i:90051**

Qi, Li Qun (*with* Tu, Xiao Ming) The dual forest iteration method for stochastic transportation problems. (Chinese. English summary) **89j:90179**

Rendl, F. On the Euclidean assignment problem. **89h:90153**

Rothblum, Uriel G. *see* **Denardo, Eric V.; et al., 89c:90074**

Scheithauer, Guntram Zur Ermittlung eines restringierten kürzesten Weges. [On finding a restricted shortest path] **89f:90089**

Schubert, I. S. (*with* Zimmermann, U.) One-parametric bottleneck transportation problems. **89b:90137**

Schulz, Günther Ein duales Verfahren zur Lösung des Transportproblems mit zusätzlichen linearen Restriktionen. [A dual method for the solution of the transportation problem with linear side conditions] **89f:90090**

Shah, Sangeeta *see* **Prakash, Satya; et al., 89e:90139**

Sonis, Michael Transportation flows within central-place systems. **89j:90180**

Stoyan, Yu. G. (*with* Yakovlev, S. V.) Optimization of coverings by translations of bounded sets. (Russian. English summary) **89k:90107**

Sultan, Alan Heuristic for finding an initial B.F.S. in a transportation problem. (Not in MR)

Swersey, Arthur J. *see* **Denardo, Eric V.; et al., 89c:90074**

Szwarc, Włodzimierz *see* **Intrator, Jacob, 89k:90105**

Tu, Xiao Ming *see* **Qi, Li Qun, 89j:90179**

Vajda, Steven An application of the simplex method to manpower planning. **89j:90181**

Vartak, M. N. *see* **Geetha, S., 89m:90108**

Vizing, V. G. A transportation problem with indivisible consumers. (Russian) **89g:90149**

Yakovlev, S. V. *see* **Stoyan, Yu. G., 89k:90107**

Zemel, Eitan *see* **Hassin, Refael, 89d:90142**

Zhurbenko, N. G. (*with* Kuntsevich, A. V.) Efficiency of a two-stage method for solving multicommodity transportation problems on the basis of an r-algorithm. (Russian) **89j:90182**

Zimmermann, U. *see* **Schubert, I. S., 89b:90137**

Items with secondary classifications in 90C08

Aykin, Turgut On the location of hub facilities. **89b:90072**

Barnes, Earl R. (*with* Vannelli, Anthony; Walker, James Q.) A new heuristic for partitioning the nodes of a graph. **89i:05150**

Bixby, Robert E. (*with* Wagner, Donald K.) An almost linear-time algorithm for graph realization. **89f:05117**

Deng, Ju Long The grey exponential law for accumulative generation—the problem of optimal processing of information in grey control systems. (Chinese. English summary) **89j:94004**

Falkner, J. C. *see* **Ryan, D. M., 89d:90144**

Fiedler, M. Doubly stochastic matrices and optimization. **89i:15027**

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Gambarov, L. A. Decomposition of multi-index problems of the allocation of orders for production. (Russian) **89d:90109**

Ganshin, G. S. ★ Методы оптимизации и решение уравнений. (Russian) [Methods for the optimization and solution of equations] **89i:90047**

Goberna, M. A. (*with* López, Marco Antonio) Discrete approximation in linear semi-infinite programming. **89a:90080**

Gol′dengorin, B. I. Efficiently solvable classes for a one-product allocation problem. (Russian) **89c:90058**

Hoffman, Alan J. On greedy algorithms for series parallel graphs. **89d:90174**

Indihar, Stane A combinatorial method for bilinear programming. (German summary) **89a:90126**

Khodzinskiĭ, A. N. Investigation of the range of values of the objective function of a linear assignment problem. (Russian) **89e:90169**

Kolenov, G. V. *see* **Mikhalevich, V. S.; et al., 89j:90237**

Lin, Ya Xiong (*with* Zhao, Yong Chang) A new algorithm for the directed Chinese postman problem. **89j:90099**

López, Marco Antonio *see* **Goberna, M. A., 89a:90080**

Mikhalevich, V. S. (*with* Volkovich, V. L.; Kolenov, G. V.) An algorithm for matching solutions in a distributed system of interrelated problems with linear models. **89j:90237**

Radó, F. The Euclidean multifacility location problem. **89j:90162**

Rust, John Statistical models of discrete choice processes. **89a:90008**

Ryan, D. M. (*with* Falkner, J. C.) On the integer properties of scheduling set partitioning models. **89d:90144**

Sherali, H. D. Bounds on penalties for dummy arcs in transportation networks. **89h:90246**

Vannelli, Anthony *see* **Barnes, Earl R.; et al., 89i:05150**

Volkovich, V. L. *see* **Mikhalevich, V. S.; et al., 89j:90237**

Wagner, Donald K. *see* **Bixby, Robert E., 89f:05117**

Walker, James Q. *see* **Barnes, Earl R.; et al., 89i:05150**

Zhao, Yong Chang *see* **Lin, Ya Xiong, 89j:90099**

90C09 Boolean programming

Abdulla, Mukhibulla *see* **Isachenko, A. N., 89m:90110**

Ageev, A. A. (*with* Beresnev, V. L.) Algorithms for the minimization of certain classes of polynomials of Boolean variables. (Russian) **89k:90108**

Andonov, R. A. A method for construction of strongest cuts and generation of minimal covers for 0-1 linear programming problems. **89h:90154**

Antamoshkin, A. N. (*with* Saraev, V. N.) The method of changing probabilities. (Russian) **89d:90143**

Beresnev, V. L. *see* **Ageev, A. A., 89k:90108**

Bulfin, R. L. An algorithm for the continuous variable upper bound knapsack problem. **89e:90140**

Crama, Y. (*with* Hammer, P. L.; Jaumard, Brigitte; Simeone, B.) Product form parametric representation of the solutions to a quadratic Boolean equation. (French summary) **89e:90141**

Donskoĭ, V. I. Weakly defined problems of linear Boolean programming with a partially defined set of feasible solutions. (Russian) **89k:90109**

Drexl, A. A simulated annealing approach to the multiconstraint zero-one knapsack problem. (German summary) **89a:90086**

Falkner, J. C. *see* **Ryan, D. M., 89d:90144**

Finkel'shteĭn, Yu. Yu. (*with* Shmelev, A. A.) Estimation of the coefficients of planes of certain integral polyhedra. (Russian) **89b:90138**

Guignard, Monique *see* **Lee, Jae Sik, 89b:90139**

Hammer, P. L. (*with* Liu, Yan Pei) Ordering relations and 0-1 programming problems. I. (Chinese) **89k:90110a**

— (*with* Liu, Yan Pei) Ordering relations and 0-1 programming problems. II. (Chinese. English summary) **89k:90110b**

— *see also* **Crama, Y.; et al., 89e:90141**

Isachenko, A. N. (*with* Abdulla, Mukhibulla) A polyhedron in a quadratic Boolean programming problem. (Russian) **89m:90110**

Jaumard, Brigitte *see* **Crama, Y.; et al., 89e:90141**

Körner, F. A tight bound for the Boolean quadratic optimization problem and its use in a branch and bound algorithm. (German summary) **89j:90183**

Lebedev, S. S. *see* **Zhargal, D., 89k:90112**

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Leont'ev, V. K. (*with* Mamutov, K. Kh.) Stability of solutions in problems of Boolean linear programming. (Russian) **89j:90184**

Liu, Yan Pei *see* **Hammer, P. L., 89k:90110a** *and* **89k:90110b**

Mamedov, K. Sh. On a method for calculating estimates in Boolean programming problems. (Russian) **89b:90140**

Mamutov, K. Kh. *see* **Leont'ev, V. K., 89j:90184**

Martello, Silvano (*with* Toth, Paolo) A new algorithm for the 0-1 knapsack problem. **89a:90087**

Mathur, Kamlesh (*with* Salkin, Harvey M.; Morito, Susumu) An efficient algorithm for the general multiple-choice knapsack problem (GMKP). **89b:90141**

Morito, Susumu *see* **Mathur, Kamlesh; et al., 89b:90141**

Nakanishi, Yoshiro *see* **Nakano, Hideo^1; et al., 89j:90185**

Nakano, Hideo^1 (*with* Nakanishi, Yoshiro; Tateishi, Satoru) An analysis of local neighborhood search method for 0-1 knapsack problem. **89j:90185**

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Peters, Joseph G. Lower bounds on time-accuracy trade-offs for the 0-1 knapsack problem. **89h:90155**

Rao, M. R. *see* **Sterbin Gottlieb, Elsie, 89f:90091**

Roy, Probir A mixed integer 0-1 programming heuristic for resource allocation in a decentralized system. (*see* **89f:00029**)

Rubinshteĭn, M. I. *see* **Zimokha, V. A.**, (Not in MR)

Ryan, D. M. (*with* Falkner, J. C.) On the integer properties of scheduling set partitioning models. **89d:90144**

Salkin, Harvey M. *see* **Mathur, Kamlesh; et al., 89b:90141**

Saraev, V. N. *see* **Antamoshkin, A. N., 89d:90143**

Sergienko, I. V. ★ Математические модели и методы решения задач дискретной оптимизации. (Russian) [Mathematical models and methods for solving problems of discrete optimization] **89i:90052**

Sgurev, Vasil S. (*with* Vasil'ev, Vasil S.; Vladimirov, P.) An algorithm of external feasible integer directions for solving problems of binary programming. (Russian. English summary) **89j:90186**

Shikhaliev, N. Sh. A bound on the number of iterations in a method for solving a problem of Boolean programming. (Russian. English and Azerbaijani summaries) **89c:90075**

Shmelev, A. A. *see* **Finkel'shteĭn, Yu. Yu., 89b:90138**

Shungarov, Kh. D. On the solution of a multicriterial problem of the covering of a graph by stars. (Russian) **89k:90111**

Simeone, B. *see* **Crama, Y.; et al., 89e:90141**

Sokolov, N. A. Complexity of optimization on independent systems. **89g:90150**

Sterbin Gottlieb, Elsie (*with* Rao, M. R.) Facets of the knapsack polytope derived from disjoint and overlapping index configurations. **89f:90091**

Tateishi, Satoru *see* **Nakano, Hideo^1; et al., 89j:90185**

Toth, Paolo *see* **Martello, Silvano, 89a:90087**

Vasil'ev, Vasil S. *see* **Sgurev, Vasil S.; et al., 89j:90186**

Vladimirov, P. *see* **Sgurev, Vasil S.; et al., 89j:90186**

Volkovich, S. V. *see* **Voloshin, A. F., 89m:90111**

Voloshin, A. F. (*with* Volkovich, S. V.) An algorithm for solving a linear Boolean programming problem of a special structure. (Russian) **89m:90111**

Wang, Xiao Dong^1 An algorithm for nonlinear 0-1 programming and its application in structural optimization. (Chinese. English summary) **89f:90092**

Zhargal, D. (*with* Lebedev, S. S.) Integer programming problems with imprecisely specified right-hand sides. (Russian) **89k:90112**

Zimokha, V. A. (*with* Rubinshteĭn, M. I.) A problem of research and development planning and the generalized assignment problem. (Not in MR)

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Chukhrov, I. P. *see* **Sapozhenko, A. A., 89d:94061**

Dzhavadov, R. M. On the problem of the approximation of Boolean functions by Zhegalkin polynomials. (Russian) **89d:94057**

Fushimi, Masanori Designing a uniform random number generator whose subsequences are k-distributed. **89b:65021**

Hammer, P. L. (*with* Simeone, B.; Liebling, Th. M.; de Werra, D.) From linear separability to unimodality: a hierarchy of pseudo-Boolean functions. **89m:68059**

Ishii, Hiroaki^1 *see* **Morita, Hiroshi; et al., 89h:90170**

Jörnsten, K. (*with* Migdalas, S.) Designing a minimal spanning tree network subject to a budget constraint. **89e:90207**

Kogan, A. Yu. Lower bounds for the complexity of the disjunctive normal forms of Boolean functions with a small number of zeros. (Russian) **89g:94048**

Liebling, Th. M. *see* **Hammer, P. L.; et al., 89m:68059**

Masol, V. I. The distribution of some statistics of a (0, 1)-vector. (Russian) **89j:60021**

Migdalas, S. *see* **Jörnsten, K., 89e:90207**

Morita, Hiroshi (*with* Ishii, Hiroaki^1; Nishida, Toshio) Confidence region method for a stochastic linear knapsack programming problem. **89h:90170**

Nishida, Toshio *see* **Morita, Hiroshi; et al., 89h:90170**

Panasenko, Andreĭ Viktorovich Approximate solution of a Boolean integer linear programming problem with a multidimensional parameter in the right-hand side. (Russian. English summary) **89i:90054**

Peters, Joseph G. (*with* Rudolph, Larry) Parallel approximation schemes for subset sum and knapsack problems. **89a:68093**

Raghavan, Prabhakar (*with* Thompson, C. D.) Randomized rounding: a technique for provably good algorithms and algorithmic proofs. **89b:65153**

Rendl, F. On the Euclidean assignment problem. **89h:90153**

Rudolph, Larry *see* **Peters, Joseph G., 89a:68093**

Sapozhenko, A. A. (*with* Chukhrov, I. P.) Minimization of Boolean functions in the class of disjunctive normal forms. (Russian) **89d:94061**

Sergeev, S. I. A new lower bound for the quadratic assignment problem. (Russian) **89f:90107**

Sergienko, I. V. (*with* Shilo, V. P.) An approach to the construction of approximate solutions of Boolean linear programming problems. **89b:90131**

Shilo, V. P. *see* **Sergienko, I. V., 89b:90131**

Simeone, B. *see* **Hammer, P. L.; et al., 89m:68059**

Tardella, Fabio On a class of functions attaining their maximum at the vertices of a polyhedron. **89k:90137**

Thompson, C. D. *see* **Raghavan, Prabhakar, 89b:65153**

Thompson, G. L. (*with* Zawack, D. J.) A problem expanding parametric programming method for solving the job shop scheduling problem. **89b:90111**

Vizing, V. G. A transportation problem with indivisible consumers. (Russian) **89g:90149**

Vizvári, Béla Global heuristic methods in discrete programming: a stochastic approach. (Hungarian. English summary) **89j:90175**

de Werra, D. *see* **Hammer, P. L.; et al., 89m:68059**

Zawack, D. J. *see* **Thompson, G. L., 89b:90111**

90C10 Integer programming

Aharoni, Ron (*with* Erdős, Paul; Linial, Nathan) Optima of dual integer linear programs. **89f:90093**

Aliev, A. A. Two approximate algorithms for solving integer linear programming problems with Boolean variables. (Russian) (*see* **89b:00011**)

Babaev, Dzh. A. (*with* Nasibov, È. N.) An interactive approach to the solution of fuzzy integer linear programming problems. (Russian. English and Azerbaijani summaries) **89d:90145**

Babaev, R. D. Generation of test problems on covering and partition. (Russian) **89j:90187**

Babu, A. J. G. *see* **Ram, Balasubramanian; et al., 89f:90102**

Bank, Bernd (*with* Mandel, Reinhard) Nonlinear parametric integer programming. **89g:90151**

Barcia, Paulo (*with* Holm, Søren) A revised bound improvement sequence algorithm. **89e:90142**

Bartholdi, John J., III (*with* Platzman, Loren K.) Heuristics based on spacefilling curves for combinatorial problems in Euclidean space. **89b:90143**

Bertsekas, Dimitri P. The auction algorithm: a distributed relaxation method for the assignment problem. **89h:90156**

Borchardt, M. Duality concepts and their use in discrete optimization. **89g:90152**

Bornstein, Claudio T. *see* **Villela, Paulo R. C., 89j:90189**

Boyarchuk, D. A. Results of the solution of parametric integer linear programming problems by local optimization methods. (Russian) **89g:90153**

Brimkov, V. E. *see* **Milanov, P. B., 89a:90094**

Burkard, Rainer E. Assignment problems: recent solution methods and applications. **89d:90146**

Chirkov, A. Yu. (*with* Shevchenko, V. N.) Determination of the successive minima of an integer lattice and of the vector of the lattice closest to the given one. (Russian. English summary) **89a:90088**

Cho, Seong-cheol *see* **Kim, Sehun, 89h:90157**

Chung, Chia-Shin (*with* Hung, Ming S.; Rom, Walter O.) A hard knapsack problem. **89c:90076**

Conforti, Michele (*with* Rao, M. R.) Structural properties and recognition of restricted and strongly unimodular matrices. **89b:90144**

Derigs, U. The shortest augmenting path method for solving assignment problems—motivation and computational experience. **89b:90145**

Erdős, Paul *see* **Aharoni, Ron; et al., 89f:90093**

Feautrier, Paul Parametric integer programming. (French summary) **89m:90112**

Feiring, Bruce R. A knapsack procedure for solving integer programming problems. **89c:90077**

Fujishige, Satoru (*with* Katoh, Naoki; Ichimori, Tetsuo) The fair resource allocation problem with submodular constraints. **89f:90094**

Fülöp, J. A finite procedure to generate feasible points for the extreme point mathematical programming problem. **89g:90154**

Gordeev, È. N. (*with* Mamutov, K. Kh.) Stability in trajectory bottleneck problems. **89f:90095**

Granot, Frieda *see* **Skorin-Kapov, Jadranka, 89a:90097**

Greenberg, Harold A new reduction method in integer programming. **89k:90113**

Grishchenko, A. E. (*with* Grishchenko, G. I.; Tretyak, V. P.) A problem of minimizing the cost of the underground part of a hydraulic engineering installation. (Russian) (Not in MR)

Grishchenko, G. I. *see* **Grishchenko, A. E.; et al.**, (Not in MR)

Gritsak, V. V. Group method algorithms for solving a problem of linear integer optimization. (Russian) **89k:90114**

Gröflin, H. On switching paths polyhedra. **89a:90089**
Guignard, Monique (*with* Kim, Siwhan) Lagrangean decomposition for integer programming: theory and applications. (French summary) **89f:90096**
Hallefjord, Åsa (*with* Jörnsten, K.) Constraint generation and surrogate relaxation. **89g:90155**
Harashima, Katsumi *see* **Yamada, Shoichiro; et al., 89k:90120**
Hochbaum, Dorit S. (*with* Maass, Wolfgang) Fast approximation algorithms for a nonconvex covering problem. **89f:90097**
Holm, Søren (*with* Tind, Jørgen) A unified approach for price directive decomposition procedures in integer programming. **89f:90098**
— *see also* **Barcia, Paulo, 89e:90142**
Hooker, J. N. Resolution vs. cutting plane solution of inference problems: some computational experience. **89a:90090**
Hung, Ming S. *see* **Chung, Chia-Shin; et al., 89c:90076**
Ichimori, Tetsuo *see* **Fujishige, Satoru; et al., 89f:90094**
Ivanov, N. N. (*with* Tynkovich, A. P.) Construction of a lattice point in a parallelepiped. (Russian. English summary) **89k:90115**
Jörnsten, K. *see* **Hallefjord, Åsa, 89g:90155**
Kannan, Ravindran Minkowski's convex body theorem and integer programming. **89c:90078**
Karwan, Mark H. *see* **Sarin, Sanjiv; et al., 89c:90079**; **Ram, Balasubramanian; et al., 89f:90102** *and* **89m:90116**
Kasai, Tamotsu *see* **Yamada, Shoichiro; et al., 89k:90120**
Katoh, Naoki *see* **Fujishige, Satoru; et al., 89f:90094**
Khokhlyuk, V. I. ★ Параллельные алгоритмы целочисленной оптимизации. (Russian) [Parallel algorithms for integer optimization] **89a:90091**
Kim, Sehun (*with* Cho, Seong-cheol) A shadow price in integer programming for management decision. **89h:90157**
Kim, Siwhan *see* **Guignard, Monique, 89f:90096**
Kivistik, L. Acceleration of Gomory's first algorithm. (Russian) **89a:90092**
Kolokolov, A. A. Truncation algorithms and some set partitions. (Russian) **89f:90099**
Konno, Hiroshi (*with* Kuno, Takahito) Best piecewise constant approximation of a function of single variable. **89h:90158**
Konstantinov, G. N. Estimates for the solutions of controllable systems, and the realization of the extension principle for problems with terminal constraints. (Russian) (*see* **89j:34002**)
Kounias, S. (*with* Mathai, A. M.) Maximizing the sum of integers when their sum of squares is fixed. **89b:90146**
Kozeratskaya, L. N. (*with* Lebedeva, T. T.; Sergienko, T. I.) Necessary and sufficient conditions for the stability of multicriterial problems of integer linear programming. (Russian. English summary) **89k:90116**
Kuno, Takahito *see* **Konno, Hiroshi, 89h:90158**
Lahaije, P. D. M. (*with* Wester, R. H. H.) Efficient road-map management for a car navigation system. **89m:90113**
Lambert, J.-L. Une borne pour une solution optimale entière particulière d'un problème linéaire à matrice de contraintes strictement positive. (English summary) [A bound for a particular optimal integer solution of a linear problem with a strictly positive constraint matrix] **89i:90053**
Laporte, Gilbert (*with* Mercure, Hélène; Nobert, Yves) Cutting planes based on bin packing solutions for the capacitated vehicle routing problem. **89e:90143**
Lebedeva, T. T. *see* **Kozeratskaya, L. N.; et al., 89k:90116**
Liang, Shu Li Two integer programming problems related to Cauchy's inequality. (Chinese. English summary) **89e:90144**
Likholat, N. A. On an algebraic algorithm for solving a problem of the covering of a graph by a growing directed tree. (Russian) **89a:90093**
Linial, Nathan *see* **Aharoni, Ron; et al., 89f:90093**
Lyashko, O. V. *see* **Tretyak, V. P., 89i:90055**
Maass, Wolfgang *see* **Hochbaum, Dorit S., 89f:90097**
Mamutov, K. Kh. *see* **Gordeev, È. N., 89f:90095**
Mandel, Reinhard *see* **Bank, Bernd, 89g:90151**
Margvelashvili, G. I. An algorithm for solving a concave integer programming problem. (Russian) **89m:90114**
Marinescu, Daniela An algorithm for computing the first efficient point of an integer linear multiobjective program. **89m:90115**
Mathai, A. M. *see* **Kounias, S., 89b:90146**
Mawengkang, H. (*with* Murtagh, B. A.) Solving nonlinear integer programs with large-scale optimization software. **89d:90147**
Mercure, Hélène *see* **Laporte, Gilbert; et al., 89e:90143**
Michelot, C. Properties of a class of location-allocation problems. **89f:90100**
Milanov, P. B. (*with* Brimkov, V. E.) On the knapsack problem. **89a:90094**
Murtagh, B. A. *see* **Mawengkang, H., 89d:90147**
Myers, Danny C. *see* **Sherali, H. D., 89d:90148**
Nasibov, È. N. *see* **Babaev, Dzh. A., 89d:90145**
Ni, Ming Fang *see* **Tang, Huan Wen, 89d:90149**
Nobert, Yves *see* **Laporte, Gilbert; et al., 89e:90143**
Padberg, Manfred Total unimodularity and the Euler-subgraph problem. **89h:90159**
Palubeckis, G. A generator of quadratic assignment test problems with a known optimal solution. (Russian) **89j:90188**
Panasenko, Andreĭ Viktorovich Approximate solution of a Boolean integer linear programming problem with a multidimensional parameter in the right-hand side. (Russian. English summary) **89i:90054**
Pentico, David W. The discrete two-dimensional assortment problem. **89f:90101**
Piehler, Joachim The global rank of Gomory cuts. **89g:90156**
Platzman, Loren K. *see* **Bartholdi, John J., III, 89b:90143**
Pu, Ding Guo A simpler proof of the inequality for the number of vectors in a positive basis. (Chinese) (Not in MR)
Ram, Balasubramanian (*with* Karwan, Mark H.; Babu, A. J. G.) Aggregation of constraints in integer programming. **89f:90102**
— (*with* Karwan, Mark H.) A result in surrogate duality for certain integer programming problems. **89m:90116**
Rao, M. R. *see* **Conforti, Michele, 89b:90144**
Rardin, Ronald L. *see* **Sarin, Sanjiv; et al., 89c:90079**
Rödl, Vojtěch (*with* Tovey, C.) Multiple optima in local search. **89a:90095**
Rom, Walter O. *see* **Chung, Chia-Shin; et al., 89c:90076**
Sarin, Sanjiv (*with* Karwan, Mark H.; Rardin, Ronald L.) Surrogate duality in a branch-and-bound procedure for integer programming. **89c:90079**
Scheithauer, Guntram (*with* Terno, J.) Guillotine cutting of defective boards. **89a:90096**
Schwiegelshohn, Uwe (*with* Thiele, Lothar) A systolic array for the assignment problem. **89k:90117**
Scott, J. L. On an integral transformation for integer programming. **89e:90145**
Sergienko, T. I. *see* **Kozeratskaya, L. N.; et al., 89k:90116**
Sgurev, Vasil S. (*with* Vasil'ev, Vasil S.; Vladimirov, P.) An algorithm of external feasible integer directions for integer programming problems. **89b:90147**
Sherali, H. D. (*with* Myers, Danny C.) The design of branch and bound algorithms for a class of nonlinear integer programs. **89d:90148**
Shevchenko, V. N. *see* **Chirkov, A. Yu., 89a:90088**
Shikhaliev, N. Sh. A method for constructing the ε-optimal solution of an integer programming problem. (Russian) **89e:90146**
Shmelëv, V. V. The method of exact penalty functions for the solution of linear and integer linear programming problems. (Russian) (Not in MR)
Sikorski, Jarosław Quasisubgradient algorithms for calculating surrogate constraints. **89b:90148**
Skorin-Kapov, Jadranka (*with* Granot, Frieda) Nonlinear integer programming: sensitivity analysis for branch and bound. **89a:90097**
Stougie, L. ★ Design and analysis of algorithms for stochastic integer programming. **89b:90149**
Tang, Christopher S. A max-min allocation problem: its solutions and applications. **89f:90103**
Tang, Huan Wen (*with* Ni, Ming Fang) An algorithm for solving surrogate dual problems in integer linear programming. (Chinese. English summary) **89d:90149**
Terno, J. *see* **Scheithauer, Guntram, 89a:90096**
Thiele, Lothar *see* **Schwiegelshohn, Uwe, 89k:90117**
Tind, Jørgen *see* **Holm, Søren, 89f:90098**
Topchishvili, A. L. Application of order-convex functions for the analysis of the solvability of systems of separable Diophantine inequalities. (Russian. English and Georgian summaries) **89c:90080**
Tovey, C. (*with* Weiss, Gideon; Wilson, James R.) Minimum spillage sequencing. **89b:90150**
— *see also* **Rödl, Vojtěch, 89a:90095**
Tretyak, V. P. (*with* Lyashko, O. V.) Solution of a class of problems of integer programming. (Russian. English summary) **89i:90055**
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Tynkovich, A. P. *see* **Ivanov, N. N., 89k:90115**
Vasil'ev, Vasil S. *see* **Sgurev, Vasil S.; et al., 89b:90147**
Villela, Paulo R. C. (*with* Bornstein, Claudio T.) An improved upper bound for the 0-1 knapsack problem. (Hungarian. English summary) **89j:90189**
Vladimirov, P. *see* **Sgurev, Vasil S.; et al., 89b:90147**
Voĭtishin, Yu. V. Calculation of estimates in a network approach to the solution of the set partitioning problem. (Russian. English summary) **89i:90056**
Volkovich, O. V. Finding an feasible solution of a problem of integer linear programming. (Russian) **89m:90117**
— Application of a method of successive analysis and elimination of variants for solving an integer quadratic programming problem. (Russian) **89e:90147**
Wang, Xian Yu The fuzzy optimal assignment problem. (Chinese. English summary) **89m:90118**
Weiss, Gideon *see* **Tovey, C.; et al., 89b:90150**
Werner, Frank Zu einigen Nachbarschaftsstrukturen für Iterationsverfahren zur näherungsweisen Lösung spezieller Reihenfolgeprobleme. (English summary) [On some neighborhood structures for iteration procedures for the approximate solution of special sequencing problems] **89j:90190**
Wester, R. H. H. *see* **Lahaije, P. D. M., 89m:90113**
Wilber, Robert The concave least-weight subsequence problem revisited. **89k:90118**
Wilson, James R. *see* **Tovey, C.; et al., 89b:90150**
Yakovlev, S. V. Solution of small problems of a geometric covering using structures of linear inequalities. (Russian) **89k:90119**
Yamada, Shoichiro (*with* Harashima, Katsumi; Kasai, Tamotsu) Analysis of a heuristic algorithm for planar assignment problem. **89k:90120**
Zhang, Bao Kang On a class of integer bottleneck problems. (Chinese. English summary) **89d:90150**
Zinchenko, A. B. The group-theoretic approach to strengthening cuts of a primal algorithm. (Russian) **89j:90191**

Items with secondary classifications in 90C10

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Astakhov, N. D. (*with* Jaime Chavez, M.) ★ Некоторые задачи составления плана работ и алгоритмы их решения. (Russian) [Some problems on job scheduling and algorithms for their solution] **89k:90083**
Avis, David (*with* Lai, C. W.) The probabilistic analysis of a heuristic for the assignment problem. **89j:68066**
Bachem, A. (*with* Euler, Reinhardt) Recent trends in combinatorial optimization. I. (Chinese) **89m:90129**
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Burkard, Rainer E. *see* **Cuninghame-Green, R. A., 89h:90184**

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Conforti, Michele (*with* Cornuejols, Gerard) An algorithmic framework for the matching problem in some hypergraphs. **89f:05130**

Cornuejols, Gerard *see* **Conforti, Michele, 89f:05130**

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Flahive, Mary G. *see* **Borosh, I.; et al., 89i:15022**

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Forster, M. A general network generator. (*see* **89g:90136**)

Gotoh, Shin'ya *see* **Ueno, Shuichi; et al., 89k:05085**

Greenberg, Harold Solution to a linear Diophantine equation for nonnegative integers. **89j:11122**

Grigor′ev, D. Yu. (*with* Vorob′ev, N. N., Jr.) Solving systems of polynomial inequalities in subexponential time. **89h:13001**

Guan, Mei Gu *see* **Lenstra, J. K.; et al., 89j:90098**

Gulenko, V. P. (*with* Shevchenko, L. A.) A numerical method for solving problems of optimal integer control. (Russian) **89d:49029**

Hammer, P. L. (*with* Liu, Yan Pei) Ordering relations and 0-1 programming problems. I. (Chinese) **89k:90110a**

— (*with* Liu, Yan Pei) Ordering relations and 0-1 programming problems. II. (Chinese. English summary) **89k:90110b**

Hooker, J. N. Generalized resolution and cutting planes. **89g:68062**

Hujter, Mihaly (*with* Vizvári, Béla) The exact solutions to the Frobenius problem with three variables. **89f:11039**

Idrissi, H. (*with* Loridan, P.; Michelot, C.) Approximation of solutions for location problems. **89e:90085**

Jaime Chavez, M. *see* **Astakhov, N. D., 89k:90083**

Kajitani, Yoji *see* **Ueno, Shuichi; et al., 89k:05085**

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Kleinschmidt, Peter *see* **Klee, Victor, 89a:52018**

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Kozeratskaya, L. N. (*with* Lebedeva, T. T.; Sergienko, T. I.) Problems of the parametric analysis and investigation of the stability of multicriterial problems of integer linear programming. **89h:90226**

Kreher, Donald L. *see* **Radziszowski, Stanisław P., 89i:11142**

Lai, C. W. *see* **Avis, David, 89j:68066**

Langston, Michael A. *see* **Kinnersley, Nancy G., 89j:90083**

Lebedev, S. S. *see* **Zhargal, D., 89k:90112**

Lebedeva, T. T. *see* **Kozeratskaya, L. N.; et al., 89h:90226**

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Lenstra, J. K. (*with* Rinnooy Kan, A. H. G.; Guan, Mei Gu) On the travelling salesman problem. (Chinese) **89j:90098**

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Liu, Yan Pei *see* **Hammer, P. L., 89k:90110a** *and* **89k:90110b**

Loridan, P. *see* **Idrissi, H.; et al., 89e:90085**

Lovász, L. *see* **Kannan, Ravindran, 89i:52020**

Mandel, Reinhard *see* **Bank, Bernd, 89m:90119**

Mathur, Kamlesh *see* **Djerdjour, Mohamed; et al., 89j:90196**

Meyer, R. R. *see* **Chen, Rong Jaye, 89j:90201**

Michalski, Miłosz On a class of polynomially solvable travelling salesman problems. **89h:90089**

Michelot, C. *see* **Idrissi, H.; et al., 89e:90085**

Nauss, Robert M. On the use of internal rate of return in linear and integer programming. **89j:90026**

Ozden, Mufit A solution procedure for general knapsack problems with a few constraints. **89b:90142**

Özlük, A. Erhan *see* **Sertöz, Sinan, 89g:11021**

Paz, A. (*with* Schnorr, C.-P.) Approximating integer lattices by lattices with cyclic factor groups. **89e:06008**

Perepelitsa, V. A. (*with* Sergienko, I. V.) Investigation of a class of integer multicriterial problems. (Russian) **89c:90103**

Peter-Orth, Christoph On solving computationally difficult set covering problems. **89d:05039**

Peters, Joseph G. (*with* Rudolph, Larry) Parallel approximation schemes for subset sum and knapsack problems. **89a:68093**

Piehler, Joachim Bemerkungen zum Frobenius-problem. (English and Russian summaries) [Comments on the Frobenius problem] **89b:11020**

Pochet, Yves Valid inequalities and separation for capacitated economic lot sizing. **89f:90106**

Radziszowski, Stanisław P. (*with* Kreher, Donald L.) Solving subset sum problems with the L^3 algorithm. **89i:11142**

Rinnooy Kan, A. H. G. *see* **Lenstra, J. K.; et al., 89j:90098**

Rubin, David S. *see* **Borosh, I.; et al., 89i:15022**

Rudolph, Larry *see* **Peters, Joseph G., 89a:68093**

Salkin, Harvey M. *see* **Djerdjour, Mohamed; et al., 89j:90196**

Saxena, P. C. (*with* Tripathi, R. C.) An algorithm to find a minimal cover of a set of functional dependencies. (Russian summary) **89k:68034**

Scarf, Herbert E. Testing for optimality in the absence of convexity. **89e:90021**

Schnorr, C.-P. *see* **Paz, A., 89e:06008**

Schrijver, Alexander Polyhedral combinatorics—some recent developments and results. **89i:90065**

Sebő, A. The Schrijver system of odd join polyhedra. **89i:05236**

Sergienko, I. V. ★ Математические модели и методы решения задач дискретной оптимизации. (Russian) [Mathematical models and methods for solving problems of discrete optimization] **89i:90052**

— *see also* **Perepelitsa, V. A., 89c:90103**

Sergienko, T. I. *see* **Kozeratskaya, L. N.; et al., 89h:90226**

Sertöz, Sinan (*with* Özlük, A. Erhan) On a Diophantine problem of Frobenius. (Turkish summary) **89g:11021**

(Shao, Jia Yu) *see* **Bachem, A., 89m:90129**

Shevchenko, L. A. *see* **Gulenko, V. P., 89d:49029**

Shie, Yea-Chin *see* **Lin, Shiow Nan, 89j:90035**

Shteĭnberg, B. Ya. The cut-set of directed graphs. (Russian) **89m:05056**

Sommerschuh, J. Variablenfixierungen in gemischt-ganzzahligen linearen 0-1-Optimierungsaufgaben. (English summary) [Fixing of variables in mixed integer linear 0-1 optimization problems] **89h:90161**

Stanfel, L. E. Mathematical optimization and the synchronizing properties of encodings. **89g:94041**

Stott, Kenneth L. *see* **Vasko, Francis J.; et al.,** (Not in MR)

Taverna, R. *see* **Ball, Michael O., 89b:90219**

Timkovskiĭ, V. G. Some recognition problems that are connected with the isomorphism of graphs. **89m:68045**

Treybig, L. B. *see* **Borosh, I.; et al., 89i:15022**

Tripathi, R. C. *see* **Saxena, P. C., 89k:68034**

Ueno, Shuichi (*with* Kajitani, Yoji; Gotoh, Shin'ya) On the nonseparating independent set problem and feedback set problem for graphs with no vertex degree exceeding three. **89k:05085**

Vasko, Francis J. (*with* Wolf, Floyd E.; Stott, Kenneth L.) A set covering approach to metallurgical grade assignment. (Not in MR)

Venkatesan, Shankar M. Approximation algorithms for weighted matching. **89k:68124**

Vizvári, Béla An application of Gomory cuts in number theory. **89d:11017**

— *see also* **Hujter, Mihaly, 89f:11039**

Vorob′ev, N. N., Jr. *see* **Grigor′ev, D. Yu., 89h:13001**

(Wang, Zhe Min) *see* **Bachem, A., 89m:90130**

(Wei, Guo Hua) *see* **Bachem, A., 89m:90130**

Wolf, Floyd E. *see* **Vasko, Francis J.; et al.,** (Not in MR)

Yakovlev, S. V. Probabilistic methods for optimization on discrete sets. (Russian) **89a:90104**

Zhargal, D. (*with* Lebedev, S. S.) Integer programming problems with imprecisely specified right-hand sides. (Russian) **89k:90112**

Zimmermann, Karel On systems of max-separable inequalities. **89f:90128**

90C11 Mixed integer programming

Akgül, Mustafa A sequential dual simplex algorithm for the linear assignment problem. **89f:90104**

Andreev, O. P. (*with* Ermolaev, A. I.; Tsvirkun, A. D.) The design of systems based on mixed-integer models of optimization. **89k:90121**

Bank, Bernd (*with* Mandel, Reinhard) ★ Parametric integer optimization. **89m:90119**

Ermolaev, A. I. *see* **Andreev, O. P.; et al., 89k:90121**

Glover, Fred (*with* Klingman, D.; Phillips, Nancy V.; Ross, G. T.) Integrating modeling, algorithm design, and computational implementation to solve a large-scale nonlinear mixed integer programming problem. **89d:90151**

Guignard, Monique (*with* Kim, Siwhan) Lagrangean decomposition: a model yielding stronger Lagrangean bounds. **89b:90151**

— Décomposition lagrangienne et facettes de polytopes entiers. (English summary) [Lagrangian decomposition and facets of integer polytopes] **89j:90192**

— A Lagrangean dual ascent algorithm for simple plant location problems. **89b:90152**

Gupta, Omprakash K. A branch and bound heuristic for computing upper bounds for nonlinear integer programs. **89k:90122**

Jeroslow, Robert G. Alternative formulations of mixed integer programs. **89f:90105**

Kim, Siwhan *see* **Guignard, Monique, 89b:90151**

Klingman, D. *see* **Glover, Fred; et al., 89d:90151**

Leiserson, Charles E. (*with* Saxe, James B.) A mixed-integer linear programming problem which is efficiently solvable. **89b:90153**

Mandel, Reinhard *see* **Bank, Bernd, 89m:90119**

Martin, R. Kipp Generating alternative mixed-integer programming models using variable redefinition. **89b:90154**

Phillips, Nancy V. *see* **Glover, Fred; et al., 89d:90151**

Pochet, Yves Valid inequalities and separation for capacitated economic lot sizing. **89f:90106**

Ross, G. T. *see* **Glover, Fred; et al., 89d:90151**

Saĭko, L. A. The number of iterations of direct truncation algorithms. (Russian) **89h:90160**

Saxe, James B. *see* **Leiserson, Charles E., 89b:90153**

Sergeev, S. I. A new lower bound for the quadratic assignment problem. (Russian) **89f:90107**

Shor, N. Z. Quadratic optimization problems. **89g:90157**

Sommerschuh, J. Variablenfixierungen in gemischt-ganzzahligen linearen 0-1-Optimierungsaufgaben. (English summary) [Fixing of variables in mixed integer linear 0-1 optimization problems] **89h:90161**

Tsvirkun, A. D. *see* **Andreev, O. P.; et al., 89k:90121**

Items with secondary classifications in 90C11

Bank, Bernd (*with* Mandel, Reinhard) (Mixed-) integer solutions of quasiconvex polynomial inequalities. **89i:90088**

Borchardt, M. Duality concepts and their use in discrete optimization. **89g:90152**

Hoppe, Veronika Zu einem speziellen Maschinenbelegungsproblem. [On a special machine sequencing problem] **89f:90073**

Karwan, Mark H. *see* **Ram, Balasubramanian, 89m:90116**

Kennedy, David Some branch and bound techniques for nonlinear optimization. **89g:90193**

Lebedev, S. S. *see* **Zhargal, D., 89k:90112**

Mandel, Reinhard *see* **Bank, Bernd, 89i:90088**

Nishikawa, Yoshikazu *see* **Sannomiya, N.; et al., 89j:49029**

Okubo, Masatoshi *see* **Sannomiya, N.; et al., 89j:49029**

Pochet, Yves (*with* Wolsey, Laurence A.) Lot-size models with backlogging: strong reformulations and cutting planes. **89d:90093**

Ram, Balasubramanian (*with* Karwan, Mark H.) A result in surrogate duality for certain integer programming problems. **89m:90116**

Sannomiya, N. (*with* Nishikawa, Yoshikazu; Okubo, Masatoshi; Tsuda, Takashi) Optimal control of system with continuous and discrete state variables. **89j:49029**

Sergienko, I. V. ★ Математические модели и методы решения задач дискретной оптимизации. (Russian) [Mathematical models and methods for solving problems of discrete optimization] **89i:90052**

Tsuda, Takashi *see* **Sannomiya, N.; et al., 89j:49029**

Wolsey, Laurence A. *see* **Pochet, Yves, 89d:90093**

Zhargal, D. (*with* Lebedev, S. S.) Integer programming problems with imprecisely specified right-hand sides. (Russian) **89k:90112**

90C15 Programming in conditions of uncertainty, stochastic programming

Abel, Peter Stochastic linear programming with recourse under partial information. **89a:90098**

Berka, Milan Stochastic methods for global optimization of dynamical systems. (Czech. English and Russian summaries) **89a:90099**

Betrò, Bruno (*with* Schoen, Fabio) Sequential stopping rules for the multistart algorithm in global optimisation. **89d:90152**

Birge, John R. (*with* Louveaux, François) A multicut algorithm for two-stage stochastic linear programs. **89f:90108**

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Boender, C. G. E. (*with* Rinnooy Kan, A. H. G.; Vercellis, C.) Stochastic optimization methods. **89m:90120**

Bordunov, N. N. (*with* Yastremskiĭ, A. I.; Uteuliev, N.) Duality relations and conditions for optimality in linear problems of stochastic programming with discretely distributed random variables. (Russian) **89a:90100**

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Chernov, D. È. *see* **Malyshev, V. V.; et al., 89f:90110**

Cipra, T. Autoregressive processes in optimization. **89h:90163**

— Gaussian processes in linear programs with random right-hand sides. (Not in MR)

Devyaterikov, I. P. (*with* Koshlan′, A. I.) A method for solving stochastic optimization problems with constraints. **89e:90148**

— (*with* Koshlan′, A. I.) Stochastic optimization methods with constraints. **89h:90164**

Dupačová, Jitka Stochastic programming with incomplete information: a survey of results on postoptimization and sensitivity analysis. **89d:90153**

Frauendorfer, Karl Solving SLP recourse problems with arbitrary multivariate distributions—the dependent case. **89h:90166**

— (*with* Kall, P.) A solution method for SLP recourse problems with arbitrary multivariate distributions—the independent case. (Russian summary) **89h:90165**

Gabasov, R. (*with* Medvedev, V. G.) An algorithm for solving a two-stage linear stochastic programming problem with several random parameters. (Russian. English summary) **89b:90155**

Gaĭvoronskiĭ, A. A. Numerical techniques for finding estimates which minimize the upper bound of the absolute deviation. **89h:90167**

Gamze, M. S. A method for the parametrization of one-step problems of operative linear stochastic programming. **89h:90168**

Gorbachuk, V. M. Stability of solutions of stochastic extremal problems. (Russian) **89m:90121**

Ishii, Hiroaki[1] *see* **Morita, Hiroshi; et al., 89b:90158** *and* **89h:90170**

Ivanenko, V. I. Information problems in control theory. (Russian. English summary) **89d:90154**

Kall, P. On approximations and stability in stochastic programming. **89g:90160**

— Stochastic programming with recourse: upper bounds and moment problems—a review. **89g:90159**

— *see also* **Frauendorfer, Karl, 89h:90165**

Kaňková, Vlasta A note on the differentiability in two-stage stochastic nonlinear programming problems. **89g:90161**

Katkauskaitė, Aldona *see* **Žilinskas, Antanas, 89h:90173**

Kibzun, A. I. *see* **Malyshev, V. V.; et al., 89f:90110**

Knopov, P. S. An approach to solving problems of stochastic optimization. (Russian. English summary) **89m:90122**

Komáromi, É. On properties of the probabilistic constrained linear programming problem and its dual. **89b:90156**

Koshlan′, A. I. *see* **Devyaterikov, I. P., 89e:90148** *and* **89h:90164**

Lavalle, Irving H. On the "Bayesability" of chance-constrained programming problems. **89a:90101**

— On the Bayesability of chance-constrained programs: a clarification. **89a:90102**

Lepp, Riho Approximation of the probability functional. (Russian) **89j:90193**

— Approximate solution of stochastic programming problems with recourse. **89b:90157**

Lideikis, Tautvydas *see* **Mockus, Jonas B.; et al., 89g:90162**

(Ljung, Lennart) *see* **Tarasenko, George S., 89h:90172**

Louveaux, François *see* **Birge, John R., 89f:90108**

Malyshev, V. V. (*with* Kibzun, A. I.; Chernov, D. È.) Two approaches to the solution of probabilistic optimization problems. **89f:90110**

Marinchenko, T. A. Application of stochastic quasigradient methods for dynamical systems. (Russian) **89e:90149**

Marti, K. (*with* Plöchinger, E.) Optimal semi-stochastic approximation procedures. **89j:90194**

Medvedev, V. G. *see* **Gabasov, R., 89b:90155**

Mockus, Jonas B. (*with* Žukauskaitė, Lolita; Lideikis, Tautvydas) A Bayesian approach to local optimization. (Russian. English and Lithuanian summaries) **89g:90162**

— (*with* Mockus, Linas) A Bayesian approach to global optimization, and applications. (Russian. English and Lithuanian summaries) **89h:90169**

Mockus, Linas *see* **Mockus, Jonas B., 89h:90169**

Morita, Hiroshi (*with* Ishii, Hiroaki[1]; Nishida, Toshio) Confidence region method for a stochastic programming problem. **89b:90158**

— (*with* Ishii, Hiroaki[1]; Nishida, Toshio) Confidence region method for a stochastic linear knapsack programming problem. **89h:90170**

Murtazin, D. A. (*with* Poznyak, A. S.) Recurrent algorithms for search optimization under conditions of relative noise. I. Limit possibilities. (Russian. English summary) **89e:90150**

Nishida, Toshio *see* **Morita, Hiroshi; et al., 89b:90158** *and* **89h:90170**

Plöchinger, E. *see* **Marti, K., 89j:90194**

Poznyak, A. S. *see* **Murtazin, D. A., 89e:90150**

Prékopa, András Boole-Bonferroni inequalities and linear programming. **89g:90163**

Rastrigin, L. A. Sequential binary random search in problems of stochastic programming. **89e:90151**

Rinnooy Kan, A. H. G. *see* **Boender, C. G. E.; et al., 89m:90120**

Sagatelyan, K. V. A probabilistic model of decision making. (Russian. English and Armenian summaries) **89f:90111**

Sakovich, G. N. *see* **Stoĭkova, L. S., 89d:90155**

Salinetti, Gabriella Stochastic optimization and stochastic processes: the epigraphical approach. **89a:90103**

Schoen, Fabio *see* **Betrò, Bruno, 89d:90152**

Stancu-Minasian, I. M. (*with* Ţigan, Şt.) A stochastic approach to some linear fractional goal programming problems. **89h:90171**

Stoĭkova, L. S. (*with* Sakovich, G. N.) Sharp upper bounds for a distribution function in a class of unimodal distributions with fixed moments. (Russian. English summary) **89d:90155**

Tarasenko, George S. ★ Stochastic optimization in the Soviet Union. **89h:90172**

Ţigan, Şt. *see* **Stancu-Minasian, I. M., 89h:90171**

Uteuliev, N. Optimality conditions and duality relations for a class of multistage problems of stochastic nonlinear programming. (Russian) **89m:90123**

— *see also* **Bordunov, N. N.; et al., 89a:90100; 89g:90158** *and* **89h:90162**

Vajda, Steven Deterministic equivalents of probabilistic constraints. **89j:90195**

Vercellis, C. *see* **Boender, C. G. E.; et al., 89m:90120**

Vogel, Silvia Stability results for stochastic programming problems. **89k:90123**

Wallace, Stein W. *see* **Birge, John R., 89f:90109**

Wang, Jin De An introduction to stochastic programming. (Chinese) (Not in MR)

— Stability of the optimum of stochastic linear programs. (Chinese. English summary) **89e:90152**

Yakovlev, S. V. Probabilistic methods for optimization on discrete sets. (Russian) **89a:90104**

Yastremskiĭ, A. I. *see* **Bordunov, N. N.; et al., 89a:90100; 89g:90158** *and* **89h:90162**

Žilinskas, Antanas (*with* Katkauskaitė, Aldona) Statistical models for global optimization in the presence of noise. (Russian. English and Lithuanian summaries) **89h:90173**

Žukauskaitė, Lolita *see* **Mockus, Jonas B.; et al., 89g:90162**

Items with secondary classifications in 90C15

Artstein, Zvi (*with* Wets, Roger J.-B.) Approximating the integral of a multifunction. **89d:28008**

Birge, John R. (*with* Qi, Li Qun) Computing block-angular Karmarkar projections with applications to stochastic programming. **89k:90096**

Buckley, J. J. Possibility and necessity in optimization. **89a:90159**

Dupačová, Jitka (*with* Wets, Roger J.-B.) Asymptotic behavior of statistical estimators and of optimal solutions of stochastic optimization problems. **89i:62044**

Haugland, Dag (*with* Wallace, Stein W.) Solving many linear programs that differ only in the righthand side. **89k:90097**

Hlynka, M. (*with* Sheahan, J. N.) The secretary problem for a random walk. **89g:90231**

Ivashchenko, P. A. ★ Адаптация в экономике. (Russian) [Adaptation in economics] **89g:90002**

Ivushkina, E. A. Mathematical programming with randomness and fuzziness. (Russian) **89h:90144**

Kreimer, Joseph (*with* Rubinstein, Reuven Y.) Smoothed functionals and constrained stochastic approximation. **89e:90180**

Lebedev, S. S. *see* **Zhargal, D., 89k:90112**

van Moeseke, Paul Efficient portfolios: risk shares and monetary policy. **89c:90015**

Nakonechnyĭ, A. N. The method of the small parameter in the analysis of stochastic extremal problems with rare events. (Russian) **89e:90161**

Qi, Li Qun (*with* Tu, Xiao Ming) The dual forest iteration method for stochastic transportation problems. (Chinese. English summary) **89j:90179**

— *see also* **Birge, John R., 89k:90096**

Rhee, WanSoo T. (*with* Talagrand, Michel) Martingale inequalities, interpolation and NP-complete problems. **89m:60104**
Rubinstein, Reuven Y. *see* **Kreimer, Joseph, 89e:90180**
Sheahan, J. N. *see* **Hlynka, M., 89g:90231**
Stougie, L. ★ Design and analysis of algorithms for stochastic integer programming. **89b:90149**
Talagrand, Michel *see* **Rhee, WanSoo T., 89m:60104**
Tsitsiklis, John N. A survey of large time asymptotics of simulated annealing algorithms. **89d:90177**
Tu, Xiao Ming *see* **Qi, Li Qun, 89j:90179**
Vatolin, A. A. Correction of inconsistent linear inequality system with regard to restrictions on parameter variation. **89g:90147**
Wallace, Stein W. *see* **Haugland, Dag, 89k:90097**
Wang, Jin De An approximate method for solving chance-constrained programming problems. (Chinese) (Not in MR)
Wets, Roger J.-B. *see* **Artstein, Zvi, 89d:28008** *and* **Dupačová, Jitka, 89i:62044**
Wood, G. R. On computing the dispersion function. **89g:60063**
Zhargal, D. (*with* Lebedev, S. S.) Integer programming problems with imprecisely specified right-hand sides. (Russian) **89k:90112**
Zhdanov, A. I. Solution of ill-posed stochastic linear algebraic equations by the regularized maximum likelihood method. (Russian) **89k:65055**

90C20 Quadratic programming

Abasov, T. M. The determination of saddle points. (Russian. English and Azerbaijani summaries) **89d:90156**
Ben Daya, Mohammed *see* **Shetty, C. M., 89e:90154**
Bernau, Heinz Ein neues sequentielles quadratisches Optimierungsverfahren. [A new sequential quadratic optimization method] **89f:90112**
— An exact penalty function method for strictly convex quadratic problems. **89k:90124**
Best, M. J. (*with* Caron, Richard J.) A parameterized Hessian quadratic programming problem. **89d:90157**
Bomze, Immanuel M. Remarks on the recursive structure of copositivity. **89b:90159**
Borchardt, M. Zur Anwendung eines Dualitätskonzeptes für quadratische Optimierungsprobleme mit stetigen und Booleschen Variablen. I. [On the application of a duality concept for quadratic programming problems with continuous and Boolean variables. I] **89h:90174**
Broyden, C. G. Skew-symmetric matrices, staircase functions and theorems of the alternative. **89f:90113**
Byrd, Richard H. (*with* Schnabel, Robert B.; Shultz, Gerald A.) Approximate solution of the trust region problem by minimization over two-dimensional subspaces. **89c:90081**
Caron, Richard J. *see* **Best, M. J., 89d:90157**
Carotenuto, L. (*with* Raiconi, G.) On the minimization of quadratic functions with bilinear constraints via augmented Lagrangians. **89b:90160**
Djerdjour, Mohamed (*with* Mathur, Kamlesh; Salkin, Harvey M.) A surrogate relaxation based algorithm for a general quadratic multidimensional knapsack problem. **89j:90196**
Fan, Y. (*with* Sarkar, Swapan Kumar; Lasdon, L. S.) Experiments with successive quadratic programming algorithms. **89b:90161**
Fel′genkhauèr, Ursula Eine Variante der ableitungsfreien Quadratsummenminimierung. [A variant of derivative-free minimization of square sums] **89m:90124**
George, John A. Assessment of errors in approximating the objective function of a quadratic programming problem. **89e:90153**
Glick, J. H. *see* **Pardalos, P. M.; et al., 89d:90158**
Gui, Xiang Yun (*with* Liu, Shu Cheng) An exchange type null space method for general quadratic programming problems. (Chinese. English summary) **89i:90057**
Howe, Roger E. Automatic continuity of concave functions. **89g:90164**
Kabe, D. G. On pseudoquadratic programming. **89k:90125**
— On solving hypercomplex linear and quadratic programming problems. **89j:90197**
Khan, E. A. *see* **Khan, Z. A., 89j:90198**
Khan, Z. A. (*with* Khan, E. A.) Integer solution on the concave quadratic programs through simple branching. **89j:90198**
Kryńska, Grażyna The numerically stable algorithm for quadratic programs with simple upper bounds. (Russian and Polish summaries) **89b:90162**
Lachout, Petr Degeneration in Wolfe's algorithm for quadratic programming. (Czech summary) **89m:90125**
Lasdon, L. S. *see* **Fan, Y.; et al., 89b:90161**
Liu, Shu Cheng *see* **Gui, Xiang Yun, 89i:90057**
Lommatzsch, Klaus Eine angewandte Aufgabe der quadratischen konvexen Optimierung. [An applied problem of quadratic convex optimization] **89g:90165**
Mathur, Kamlesh *see* **Djerdjour, Mohamed; et al., 89j:90196**
Minitskaya, I. L. *see* **Topchishvili, A. L., 89c:90082**
Pardalos, P. M. (*with* Glick, J. H.; Rosen, J. B.) Global minimization of indefinite quadratic problems. (German summary) **89d:90158**
— (*with* Schnitger, G.) Checking local optimality in constrained quadratic programming is NP-hard. **89b:90163**
Phillips, A. T. (*with* Rosen, J. B.) A parallel algorithm for constrained concave quadratic global minimization. **89j:90199**
Raiconi, G. *see* **Carotenuto, L., 89b:90160**
Rosen, J. B. *see* **Pardalos, P. M.; et al., 89d:90158** *and* **Phillips, A. T., 89j:90199**
Rustem, B. (*with* Velupillai, K.) Objective functions and the complexity of policy design. **89a:90105**
Salkin, Harvey M. *see* **Djerdjour, Mohamed; et al., 89j:90196**
Sarkar, Swapan Kumar *see* **Fan, Y.; et al., 89b:90161**
Savelova, L. A. Correction of direction in a finite method for solving an interval problem of quadratic programming. (Russian) **89d:90159**
Schnabel, Robert B. *see* **Byrd, Richard H.; et al., 89c:90081**
Schnitger, G. *see* **Pardalos, P. M., 89b:90163**
Shetty, C. M. (*with* Ben Daya, Mohammed) A decomposition procedure for convex quadratic programs. **89e:90154**
Shultz, Gerald A. *see* **Byrd, Richard H.; et al., 89c:90081**
Tarnovskiĭ, A. G. A gradient algorithm for solving a problem of the "minimum sum of squares". (Russian) **89b:90164**
Topchishvili, A. L. (*with* Minitskaya, I. L.) A nonenumerative method for the maximization of a separable-quadratic objective function on a hyperparallelepiped. (Russian) **89c:90082**
Velupillai, K. *see* **Rustem, B., 89a:90105**
Wright, Stephen Joseph A fast algorithm for equality-constrained quadratic programming on the Alliant FX/8. **89g:90166**
Xu, Wei Xuan A new bounding technique for the quadratic assignment problem. (Chinese. English summary) **89a:90106**
Zheng, Han Ding A programming problem with mixed constraints, on an n-dimensional complex. (Chinese. English summary) **89a:90107**
Zhuzhunashvili, A. Sh. An estimate for the discontinuity of duality in a class of mathematical programming problems. (Russian) **89k:90126**

Items with secondary classifications in 90C20

Abdulla, Mukhibulla *see* **Isachenko, A. N., 89m:90110**
Barlow, J. L. (*with* Nichols, N. K.; Plemmons, Robert J.) Iterative methods for equality-constrained least squares problems. **89h:65100**
Belbas, S. A. The dynamic programming equations for stochastic games with discrete actions. **89g:93089**
Bouzaher, Aziz Symmetric QP and linear programming under primal-dual uncertainty. **89h:90141**
Charnes, A. (*with* Golany, B.; Keane, Michael; Rousseau, John James) Extremal principle solutions of games in characteristic function form: core, Chebychev and Shapley value generalizations. **89e:90232**
Darmakheev, V. P. Relaxationsmethode zur Berechnung eines Punktes aus dem Durchschnitt der Projektionen von konvexen abgeschlossenen Mengen. [Relaxation method for computing a point from the intersection of projections of convex closed sets] **89a:52007**
Dembo, Ron S. (*with* Tulowitzki, Ulrich) Computing equilibria on large multicommodity networks: an application of truncated quadratic programming algorithms. **89j:90216**
Evans, David J. (*with* Li, Chang Jun) Numerical aspects of the generalized CG-method applied to least squares problems. (German summary) **89m:65043**
Fletcher, Roger Recent developments in linear and quadratic programming. **89c:90070**
Golany, B. *see* **Charnes, A.; et al., 89e:90232**
Isachenko, A. N. (*with* Abdulla, Mukhibulla) A polyhedron in a quadratic Boolean programming problem. (Russian) **89m:90110**
Jongen, H. Th. (*with* Möbert, T.; Rückmann, Jan; Tammer, Klaus) On inertia and Schur complement in optimization. **89f:90143**
Keane, Michael *see* **Charnes, A.; et al., 89e:90232**
Kiwiel, K. C. A method for solving certain quadratic programming problems arising in nonsmooth optimization. **89h:65102**
Körner, F. (*with* Luderer, Bernd) A simultaneous method for checking second-order Kuhn-Tucker conditions for equality constrained nonlinear programming problems. **89j:90224**
Lapin, A. V. (*with* Solov′ev, D. O.) Solution of mesh obstacle problems. **89c:65074**
Li, Chang Jun *see* **Evans, David J., 89m:65043**
Lucidi, S. A new result in the theory and computation of the least-norm solution of a linear program. **89d:90132**
Luderer, Bernd *see* **Körner, F., 89j:90224**
Mikhalevich, V. S. (*with* Redkovskiĭ, N. N.; Perekatov, A. E.) Methods for the minimization of functions on a sphere and their applications. (Russian. English summary) **89e:90183**
Möbert, T. *see* **Jongen, H. Th.; et al., 89f:90143**
Moré, Jorge J. Numerical solution of bound constrained problems. **89f:65071**
Nebeling, V. *see* **Tichatschke, R., 89m:90127**
Ni, Qin A rank-1 update optimization method using decompositions of indefinite symmetric matrices and curvilinear search. (Chinese. English summary) **89e:65063**
Nichols, N. K. *see* **Barlow, J. L.; et al., 89h:65100**
Perekatov, A. E. *see* **Mikhalevich, V. S.; et al., 89e:90183**
Philip, Johan The most ill-posed nonnegative kernels in discrete deconvolution. **89c:65142**
Plemmons, Robert J. *see* **Barlow, J. L.; et al., 89h:65100**
Ponstein, J. A matrix minimization problem involving ranks. **89f:65072**
Pyber, L. How to find many counterfeit coins? **89c:05003**
Redkovskiĭ, N. N. *see* **Mikhalevich, V. S.; et al., 89e:90183**
Rousseau, John James *see* **Charnes, A.; et al., 89e:90232**
Rückmann, Jan *see* **Jongen, H. Th.; et al., 89f:90143**
Shor, N. Z. Quadratic optimization problems. **89g:90157**
Solov′ev, D. O. *see* **Lapin, A. V., 89c:65074**
Tammer, Klaus *see* **Jongen, H. Th.; et al., 89f:90143**
Tapia, R. A. On secant updates for use in general constrained optimization. **89g:90201**
Tichatschke, R. (*with* Nebeling, V.) A cutting-plane method for quadratic semi-infinite programming problems. **89m:90127**
Tulowitzki, Ulrich *see* **Dembo, Ron S., 89j:90216**
Väliaho, H. Testing the definiteness of matrices on polyhedral cones. **89h:15029**
Volkovich, O. V. Application of a method of successive analysis and elimination of variants for solving an integer quadratic programming problem. (Russian) **89e:90147**
Xue, Guo Liang A family of gradient projection algorithms and their convergence properties. (Chinese. English summary) **89d:90207**

90C25 Convex programming

Abasov, T. M. Duality in problems of the search for saddle points. (Russian. English and Azerbaijani summaries) **89h:90175**
Akhmedov, F. G. Saddle points of the Lagrange function. (Russian. English and Azerbaijani summaries) **89d:90160**
Astaf′ev, N. N. Regularization of a dual convex programming problem in a class of infinite linear programs. (Russian) (*see* **89b:90003**)
— *see also* **Erëmin, I. I.; et al., 89i:90058**
Auslender, A. A. (*with* Crouzeix, J.-P.; Fedit, P.) Penalty-proximal methods in convex programming. **89d:90161**

(*with* Crouzeix, J.-P.) Global regularity theorems. **89g:90167**

vriel, Mordecai (*with* Diewert, Walter E.; Schaible, Siegfried; Zang, Israel) ★ Generalized concavity. **89e:90155**

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urmeister, W. (*with* Dietze, Siegfried; Hess, Walter Paul; Schmidt, Jochen W.) Solution of a class of weakly coupled programs via dualization, and applications. **89j:90200**

(*with* Schmidt, Jochen W.) A lemma on convex functionals in finite-dimensional spaces. **89e:90156**

hen, Goong *see* **Zhou, Jian-Xin, 89f:90121**

hen, Rong Jaye (*with* Meyer, R. R.) Parallel optimization for traffic assignment. **89j:90201**

ieslik, D. The Fermat-Steiner-Weber-problem in Minkowski spaces. **89f:90114**

rouzeix, J.-P. *see* **Auslender, A. A.; et al., 89d:90161** *and* **89g:90167**

e Pierro, Alvaro R. (*with* Iusem, Alfredo N.) A finitely convergent "row-action" method for the convex feasibility problem. **89a:90108**

ietze, Siegfried *see* **Burmeister, W.; et al., 89j:90200**

iewert, Walter E. *see* **Avriel, Mordecai; et al., 89e:90155**

ong, Bing Hua There are enough nonquadratic forcing strictly convex functionals in a real Hilbert space. (Chinese. English summary) **89k:90128**

berhard, A. C. Characterization of subgradients. I. **89g:90168**

l-Ariny, A. K. H. *see* **Osman, M. S. A.; et al., 89g:90173** *and* (**89c:00031**)

l-Hefny, M. R. *see* **Osman, M. S. A.; et al.**, (**89c:00031**)

rëmin, I. I. Duality and approximation for improper problems of mathematical programming. **89c:90083**

(*with* Mazurov, Vl. D.; Astaf′ev, N. N.) Systems of linear inequalities in mathematical programming and pattern recognition. **89i:90058**

rlikh, I. I. *see* **Tarasov, S. P.; et al., 89k:90132**

ang, S. C. (*with* Peterson, Elmor L.; Rajasekera, J. R.) Controlled dual perturbations for posynomial programs. **89f:90115**

edit, P. *see* **Auslender, A. A.; et al., 89d:90161**

eijoo, B. (*with* Meyer, R. R.) Piecewise-linear approximation methods for nonseparable convex optimization. **89d:90162**

iacco, Anthony V. (*with* Kyparisis, Jerzy) Computable bounds on parametric solutions of convex problems. **89c:90084**

lâm, S. D. Stability of convex programs under a distributed constraint qualification. **89e:90157**

ourer, Robert A simplex algorithm for piecewise-linear programming. II. Finiteness, feasibility and degeneracy. **89k:90129**

oberna, M. A. (*with* Jornet, V.) A note about linear inequality systems and duality. (German summary) **89a:90109**

oldstein, A. A. (*with* Russak, I. B.) How good are the proximal point algorithms? **89a:90110**

ol′shteĭn, E. G. A general approach to decomposition of optimization systems. **89c:90085**

A general approach to constructing block methods of convex programming that is based on decomposition analysis of monotone mappings. (Russian) **89e:90158**

rygarová, Libuše The implicit function theorem for a convex function. **89g:90169**

urvich, V. A. Equivalence of problems of calculating schemes, optimal flows and static equilibrium. (Russian) **89g:90170**

an, Shih-Ping (*with* Lou, Gang) A parallel algorithm for a class of convex programs. **89e:90159**

ess, Walter Paul *see* **Burmeister, W.; et al., 89j:90200**

oàng Tụy Minimizing a convex function over a nonconvex set. **89f:90116**

ollatz, Horst Extended subdifferential and minimization of nondifferentiable functions. **89j:90202**

orst, Reiner (*with* Phan Thiên Thạch) A topological property of limes-arcwise strictly quasiconvex functions. **89i:90059**

sem, Alfredo N. (*with* Moledo, Leonardo) A finitely convergent method of simultaneous subgradient projections for the convex feasibility problem. (Portuguese summary) **89a:90111**

see also **De Pierro, Alvaro R., 89a:90108**

arre, F. (*with* Sonnevend, Gy.; Stoer, J.) An implementation of the method of analytic centers. **89e:90160**

efferson, T. R. *see* **Scott, C. H.; et al., 89h:90180**

eyakumar, V. A general Farkas lemma and characterization of optimality for a nonsmooth program involving convex processes. **89b:90165**

ang, Hua Guang Optimality conditions for a nonsmooth optimization problem. (Chinese) **89b:90166**

orjani, S. *see* **Scott, C. H.; et al., 89h:90180**

ornet, V. *see* **Goberna, M. A., 89a:90109**

aplan, A. A. Stability of methods for solving convex programming problems and variational inequalities. (Russian) **89h:90176**

aplan, G. A. *see* **Veliev, Ch. K., 89d:90167**

hachiyan, L. G. *see* **Tarasov, S. P.; et al., 89k:90132**

iwiel, K. C. Decomposition method of descent for minimizing the sum of convex nonsmooth functions. **89b:90167**

reĭnin, M. I. *see* **Zabotin, I. Ya., 89d:90169**

yparisis, Jerzy *see* **Fiacco, Anthony V., 89c:90084**

efebvre, O. *see* **Michelot, C., 89f:90117**

evin, V. L. Solution of a problem of convex analysis. (Russian) **89g:90171**

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tvinchev, I. S. A decomposition method for optimization problems not possessing a block-separable structure. (Russian) **89a:90112**

ou, Gang *see* **Han, Shih-Ping, 89e:90159**

ubochkin, A. V. A first-order method for solving a convex piecewise-linear separable problem. (Russian) **89d:90163**

angasarian, O. L. A simple characterization of solution sets of convex programs. **89d:90164**

artínez-Legaz, Juan-Enrique Quasiconvex duality theory by generalized conjugation methods. **89j:90203**

Mazure, Marie-Laurence La soustraction parallèle d'opérateurs interprétée comme déconvolution de formes quadratiques convexes. (English summary) [Parallel subtraction of operators interpreted as a deconvolution of convex quadratic forms] **89m:90126**

Mazurov, Vl. D. Problems of duality in discriminant analysis. (Russian) **89h:90177**

— *see also* **Erëmin, I. I.; et al., 89i:90058**

Meyer, R. R. *see* **Feijoo, B., 89d:90162** *and* **Chen, Rong Jaye, 89j:90201**

Michelot, C. (*with* Lefebvre, O.) A primal-dual algorithm for the Fermat-Weber problem involving mixed gauges. **89f:90117**

Mlynarovič, Vladimír On shadow prices in convex programming. (Slovak. English summary) **89h:90178**

Moledo, Leonardo *see* **Iusem, Alfredo N., 89a:90111**

Mond, B. *see* **Weir, T., 89c:90088**

Nakonechnyĭ, A. N. The method of the small parameter in the analysis of stochastic extremal problems with rare events. (Russian) **89e:90161**

Nebeling, V. *see* **Tichatschke, R., 89m:90127**

Nemirovskiĭ, A. S. *see* **Nesterov, Yu. E., 89k:90130**

Nenakhov, È. I. (*with* Primak, M. E.; Nenakhova, S. G.) One-point truncation methods. (Russian) **89j:90204**

Nenakhova, S. G. *see* **Nenakhov, È. I.; et al., 89j:90204**

Nesterov, Yu. E. (*with* Nemirovskiĭ, A. S.) Polynomial barrier methods in convex programming. (Russian) **89k:90130**

Nguyễn Đú'c Hiếu *see* **Nguyễn Đú'c Nghĩa, 89d:90165**

Nguyễn Đú'c Nghĩa (*with* Nguyễn Đú'c Hiếu) A method for solving reverse convex programming problems. **89d:90165**

Noll, Dominikus A selection principle with applications in convex analysis and optimization. **89b:90168**

Nurminskiĭ, E. A. Calculation of the E-subgradients of extremal values. (Russian. English summary) **89k:90131**

Odinets, V. P. (*with* Ślęzak, Włodzimierz A.) ★ Wstęp do analizy wypukłej. (Polish) [Introduction to convex analysis] **89f:90118**

— (*with* Ślęzak, Włodzimierz A.) ★ Wybrane rozdziały analizy wypukłej. (Polish) [Selected topics in convex analysis] **89g:90172**

Osman, M. S. A. (*with* El-Hefny, M. R.; El-Ariny, A. K. H.) Implementing stability results in solving large scale convex programming problems. (*see* **89c:00031**)

— (*with* El-Ariny, A. K. H.; Refaat, Talaat H. M.) An algorithm for decomposition coordination of large scale convex programming problems. **89g:90173**

Peterson, Elmor L. *see* **Fang, S. C.; et al., 89f:90115**

Pham Trong Quat An exact penalty function algorithm using the operation of space dilation for constrained optimization with convex functions. (Russian and Polish summaries) **89c:90086**

Phan Thiên Thạch *see* **Horst, Reiner, 89i:90059**

Popkov, Yu. S. A multiplicative algorithm for Fermi models of macrosystems. **89g:90174**

Popov, L. D. Application of a maximin criterion for the correction of improper problems of convex programming. (Russian) **89h:90179**

Primak, M. E. *see* **Nenakhov, È. I.; et al., 89j:90204**

Rajasekera, J. R. *see* **Fang, S. C.; et al., 89f:90115**

Refaat, Talaat H. M. *see* **Osman, M. S. A.; et al., 89g:90173**

Repin, S. I. Minimization of a class of nondifferentiable functionals by means of the relaxation method. (Russian) **89a:90113**

Rodionov, A. V. (*with* Tret′yakov, A. A.) A method for solving the convex programming problem. (Russian) **89d:90166**

Russak, I. B. *see* **Goldstein, A. A., 89a:90110**

Sangadzhieva, B. P. *see* **Zhak, S. V., 89j:90207**

Schaible, Siegfried *see* **Avriel, Mordecai; et al., 89e:90155**

Schmidt, Jochen W. Specially structured convex optimization problems: computational aspects and applications. **89f:90119**

— *see also* **Burmeister, W., 89e:90156** *and* **89j:90200**

Schultz, Rüdiger Estimates for Kuhn-Tucker points of perturbed convex programs. **89j:90205**

Scott, C. H. (*with* Jefferson, T. R.; Jorjani, S.) Duality for programs involving nonseparable objective functions. **89h:90180**

Semple, John Hartley (*with* Zlobec, S.) On a necessary condition for stability in perturbed linear and convex programming. (German summary) **89c:90087**

Shchepakin, M. B. An optimizing algorithm for orthogonal descent. (Russian) **89b:90169**

Simons, Stephen Abstract Kuhn-Tucker theorems. **89g:90175**

Skarin, V. D. A method for the numerical analysis of conflicting problems of convex programming. (Russian) **89e:90162**

Ślęzak, Włodzimierz A. *see* **Odinets, V. P., 89f:90118** *and* **89g:90172**

Song, Chang Ho Convergence of projected successive overrelaxation methods for convex programming problem with two-sided constraints. (Korean. English summary) (Not in MR)

Sonnevend, Gy. *see* **Jarre, F.; et al., 89e:90160**

Stoer, J. *see* **Jarre, F.; et al., 89e:90160**

Stoyan, Yu. G. (*with* Yakovlev, S. V.) Construction of convex and concave functions on a permutation polyhedron. (Russian. English summary) **89e:90163**

Strekalovskiĭ, A. S. On the problem of the global extremum. (Russian) **89b:90170**

Tamarit Goerlich, José Manuel Improving feasible directions for a class of nondifferentiable functions. **89b:90171**

Tanino, Tetsuzo Stability and sensitivity analysis in convex vector optimization. **89f:90120**

Tarasov, S. P. (*with* Khachiyan, L. G.; Èrlikh, I. I.) The method of inscribed ellipsoids. **89k:90132**

Tichatschke, R. (*with* Nebeling, V.) A cutting-plane method for quadratic semi-infinite programming problems. **89m:90127**

Tret′yakov, A. A. *see* **Rodionov, A. V., 89d:90166**

Tsintsadze, Z. A. Necessary conditions for extremality in some smooth-convex problems. (Russian. English and Georgian summaries) **89k:90133**

Ursescu, Corneliu On the calculus of some topologically open tangent sets. (Italian summary) **89a:90114**

Veliev, Ch. K. (*with* Kaplan, G. A.) A class of convex nonseparable optimal distribution

problems. (Russian. English and Azerbaijani summaries) **89d:90167**
Volle, M. Conjugaison par tranches et dualité de Toland. (English summary) [Conjugation by level sets and Toland's duality] **89m:90128**
Weir, T. (*with* Mond, B.) Duality for generalized convex programming without a constraint qualification. **89c:90088**
— Subgradient duality using Fritz John conditions. **89j:90206**
Xia, Zun Quan Mean value theorems in quasidifferential calculus. **89d:90168**
Xue, Guo Liang On the convergence properties of the linearized Topkis-Veinott algorithm. (Chinese. English summary) **89h:90181**
Yakovlev, S. V. *see* **Stoyan, Yu. G., 89e:90163**
Zabotin, I. Ya. (*with* Kreĭnin, M. I.) A relaxation subgradient method for minimizing strongly convex functions. (Russian) **89d:90169**
Zălinescu, C. Solvability results for sublinear functions and operators. (German summary) **89a:90115**
Zang, Israel *see* **Avriel, Mordecai; et al., 89e:90155**
Zhak, S. V. (*with* Sangadzhieva, B. P.) Some problems of mathematical programming. (Russian) **89j:90207**
Zhang, Shun Shou The optimality condition for minimizing the maximum function. (Chinese. English summary) **89h:90182**
Zhou, Jian-Xin (*with* Chen, Goong) Diagonal convexity conditions for problems in convex analysis and quasi-variational inequalities. **89f:90121**
Zhu, Dao Li Uzawa's algorithm for nonstrict convex problems in a Hilbert space. (Chinese) (Not in MR)
— An efficient algorithm for convex knapsack problems and its application. (Chinese. English summary) **89e:90164**
Zlobec, S. *see* **Semple, John Hartley, 89c:90087**

Items with secondary classifications in 90C25

Alart, P. Algorithmes de calcul de $\overline{x} = \mathrm{prox}_f\, y$. [Algorithms for computing $\overline{x} = \mathrm{prox}_f\, y$] **89i:65067**
Allwright, J. C. Positive semidefinite matrices: characterization via conical hulls and least-squares solution of a matrix equation. **89e:65034**
Asakawa, Hidekazu On the difference of two subdifferential operators. **89m:47059**
Astaf'ev, N. N. Dual regularization of a problem of semi-infinite linear programming (application to problems of convex programming). (Russian) **89g:90206**
Back, Kerry Convergence of Lagrange multipliers and dual variables for convex optimization problems. **89d:90211**
Bector, C. R. (*with* Chandra, Suresh; Husain, I.) Second order duality in continuous-time nonlinear programming. **89b:90224**
— *see also* **Bector, Meena K.; et al., 89j:90214**
Bector, Meena K. (*with* Husain, I.; Chandra, Suresh; Bector, C. R.) A duality model for a generalized minmax program. **89j:90214**
Ben Daya, Mohammed *see* **Shetty, C. M., 89e:90154**
Ben-Tal, A. (*with* Charnes, A.; Golany, B.) On *n*-person game solutions and convex programs with essentially unconstrained duals. **89b:90237**
— (*with* Borwein, J. M.; Teboulle, M.) A dual approach to multidimensional L_p spectral estimation problems. **89i:49008**
Bereznëv, V. A. (*with* Zavriev, S. N.; Tret'yakov, A. A.) The interconnection between Lagrange's theorem and the geometry of feasible sets. **89g:90184**
Borwein, J. M. Epi-Lipschitz-like sets in Banach space: theorems and examples. **89b:90225**
— *see also* **Ben-Tal, A.; et al., 89i:49008**
Censor, Yair (*with* Segman, Joseph) On block-iterative entropy maximization. **89a:94011**
Chandra, Suresh *see* **Bector, C. R.; et al., 89b:90224** *and* **Bector, Meena K.; et al., 89j:90214**
Charnes, A. *see* **Ben-Tal, A.; et al., 89b:90237**
Chepurnoĭ, N. D. Combined subgradient monotone methods for minimizing nonsmooth functions. **89i:90069**
Erëmin, I. I. Methods of parametrization in the analysis of improper mathematical programming problems. **89b:90208**
Fleming, W. H. (*with* Souganidis, P. E.) Two-player, zero-sum stochastic differential games. **89g:93090**
Fučik, Svatopluk *see* **Kufner, A., 89k:35003**
Fukushima, Masao (*with* Itoh, Takehisa) A dual approach to asymmetric traffic equilibrium problems. **89f:90060**
Gabasov, R. (*with* Kirillova, F. M.; Kostyukova, O. I.; Raketskiĭ, V. M.) ★ Конструктивные методы оптимизации. Часть 4. (Russian) [Constructive methods of optimization. Part 4] **89i:49023**
Goberna, M. A. (*with* López, Marco Antonio) Optimal value function in semi-infinite programming. **89m:90097**
Golany, B. *see* **Ben-Tal, A.; et al., 89b:90237**
Han, Shih-Ping *see* **Lou, Gang, 89g:65034**
Hoàng Tụy (*with* Khatchaturov, V.; Utkin, S. L.) A class of exhaustive cone splitting procedures in conical algorithms for concave minimization. **89e:65062**
— (*with* Horst, Reiner) Convergence and restart in branch-and-bound algorithms for global optimization. Application to concave minimization and D.C. optimization problems. **89m:90140**
Horst, Reiner *see* **Hoàng Tụy, 89m:90140**
Husain, I. *see* **Bector, C. R.; et al., 89b:90224** *and* **Bector, Meena K.; et al., 89j:90214**
Itoh, Takehisa *see* **Fukushima, Masao, 89f:90060**
Kalinin, V. N. (*with* Shikin, E. V.) The construction of ellipsoids of extreme volume. **89e:49033**
Kaplan, A. A. Stable algorithms for the penalty method. **89d:65064**
Kaufmann, Heinz On directions of strictness, affinity and constancy and the minimum set of a proper convex function. **89i:26012**
Kaul, R. N. (*with* Lyall, Vinod; Kaur, Surjeet) Semilocal pseudolinearity and efficiency. **89h:90239**
Kaur, Surjeet *see* **Kaul, R. N.; et al., 89h:90239**
Khatchaturov, V. *see* **Hoàng Tụy; et al., 89e:65062**
Kirillova, F. M. *see* **Gabasov, R.; et al., 89i:49023**
Kiwiel, K. C. A subgradient selection method for minimizing convex functions subject to linear constraints. (German summary) **89h:65101**
— A constraint linearization method for nondifferentiable convex minimization. **89b:65152**
Kostyukova, O. I. *see* **Gabasov, R.; et al., 89i:49023**
Kovács, Margit (*with* Vasil'ev, F. P.) On the convergence rate of the continuous version of the regularized gradient method (convergence rate of regularization). **89h:65103**
Kufner, A. (*with* Fučik, Svatopluk) ★ Нелинейные дифференциальные уравнения. (Russian) [Nonlinear differential equations] **89k:35003**
Kumar, Anil[1] *see* **Parida, J.; et al., 89g:90224**
Kummer, Monika Über spezielle Klassen nichtkonvexer Optimierungsaufgaben, die auf konvexe überführt werden können. [On special classes of nonconvex optimization problems that can be transformed into convex ones] **89i:90074**
Laurent, P. J. Quadratic convex analysis and splines. **89f:41015**
Lędzewicz-Kowalewska, Urszula Application of the method of contractor directions to the Dubovitskiĭ-Milyutin formalism. **89b:90226**
Lippman, Alan A maximum entropy method for expert system construction. **89k:94029**
López, Marco Antonio *see* **Goberna, M. A., 89m:90097**
Lou, Gang (*with* Han, Shih-Ping) A parallel projection method for solving generalized linear least-squares problems. **89g:65034**
Luderer, Bernd (*with* Schwartz, Bernd) Decomposition in convex programming and optimal control problems. **89a:49035**
Luo, Zhi-Quan *see* **Tsitsiklis, John N., 89c:68039**
Lyall, Vinod *see* **Kaul, R. N.; et al., 89h:90239**
Malanowski, K. ★ Stability of solutions to convex problems of optimization. **89b:49045**
Margvelashvili, G. I. An algorithm for solving a concave integer programming problem. (Russian) **89m:90114**
Overton, Michael L. On minimizing the maximum eigenvalue of a symmetric matrix. **89e:65045**
Parida, J. (*with* Sen, Ashima; Kumar, Anil[1]) A linear complementarity problem involving a subgradient. **89g:90224**
— (*with* Sahoo, Makdam) A generalized variational inequality involving a gradient. **89f:49009**
(Pokhozhaev, S. I.) *see* **Kufner, A., 89k:35003**
Raketskiĭ, V. M. *see* **Gabasov, R.; et al., 89i:49023**
Rodrigues, B. (*with* Simons, Stephen) Conjugate functions and subdifferentials in nonnormed situations for operators with complete graphs. **89j:90271**
Sahoo, Makdam *see* **Parida, J., 89f:49009**
Schwartz, Bernd *see* **Luderer, Bernd, 89a:49035**
Segman, Joseph *see* **Censor, Yair, 89a:94011**
Sen, Ashima *see* **Parida, J.; et al., 89g:90224**
Sha, Zhen An extreme value problem. (Chinese. English summary) **89g:90241**
Shetty, C. M. (*with* Ben Daya, Mohammed) A decomposition procedure for convex quadratic programs. **89e:90154**
Shi, Shu Zhong Convex analysis and its applications in microeconomics. (Chinese) **89m:90025**
Shikin, E. V. *see* **Kalinin, V. N., 89e:49033**
Simons, Stephen *see* **Rodrigues, B., 89j:90271**
Souganidis, P. E. *see* **Fleming, W. H., 89g:93090**
Tarasenko, A. M. On the Lipschitz properties of ε-subdifferential mappings. (Russian. English summary) **89i:26014**
Tardella, Fabio On a class of functions attaining their maximum at the vertices of a polyhedron. **89k:90137**
Teboulle, M. *see* **Ben-Tal, A.; et al., 89i:49008**
Tikhomirov, V. M. Convex analysis. (Russian) (*see* **89f:41001**)
Tret'yakov, A. A. *see* **Bereznëv, V. A.; et al., 89g:90184**
Tsitsiklis, John N. (*with* Luo, Zhi-Quan) Communication complexity of convex optimization. **89c:68039**
Utkin, S. L. *see* **Hoàng Tụy; et al., 89e:65062**
Vályi, István Strict approximate duality in vector spaces. **89b:65163**
Vasil'ev, F. P. *see* **Kovács, Margit, 89h:65103**
Verona, Maria Elena More on the differentiability of convex functions. **89f:58016**
Zavriev, S. N. *see* **Bereznëv, V. A.; et al., 89g:90184**
Zhu, Ci You On the closure of a class of convex functions. (Chinese. English summary) **89g:26012**
Zhu, Dao Li The augmented Lagrange functional and the multiplier method for optimization problems with constraints in Hilbert spaces. (Chinese) (Not in MR)
(Zhukov, A. F.) *see* **Kufner, A., 89k:35003**
Zlobec, S. Input optimization. III. Optimal realizations of multiobjective models. **89j:90248**
— An index condition in input optimization. **89m:90155**

90C27 Combinatorial programming

Aarts, E. Statistical cooling: a general approach to combinatorial optimization problems. **89j:90208**
Abaĭyldanov, K. N. Solution of optimization problems on permutations with a priority condition for the chosen subsets. (Russian. Kazakh summary) **89e:90165**
Anderson, James R. *see* **Peterson, Carsten, 89d:90176**
Anily, S. (*with* Federgruen, Awi) Simulated annealing methods with general acceptance probabilities. **89h:90183**
Arzola Ruiz, José The selection of proposals: formulation, properties, method of solution. (Spanish. English summary) **89i:90061**
Bachem, A. (*with* Euler, Reinhardt) Recent trends in combinatorial optimization. I. (Chinese) **89m:90129**
— (*with* Euler, Reinhardt) Recent trends in combinatorial optimization. II. (Chinese) **89m:90130**
Bajaj, Chanderjit (*with* Li, Ming[1]) Geometric optimization and D^P-completeness. **89m:90131**
Bernasconi, J. Optimization problems and statistical mechanics. **89i:90062**
Brucker, P. (*with* Meyer, Wolfgang) Scheduling two irregular polygons. **89d:90170**
de Bruin, Arie (*with* Rinnooy Kan, A. H. G.; Trienekens, H. W. J. M.) A simulation tool fo the performance evaluation of parallel branch and bound algorithms. **89k:90134**

Burkard, Rainer E. *see* **Cuninghame-Green, R. A., 89h:90184**

Chegireddy, Chandra R. (*with* Hamacher, Horst W.) Algorithms for finding K-best perfect matchings. **89j:90209**

Choi, Hyeong-Ah (*with* Nakajima, Kazuo; Rim, Chong S.) Graph bipartization and via minimization. **89m:90132**

Coffman, E. G., Jr. (*with* Garey, M. R.; Johnson, David Stifler) Bin packing with divisible item sizes. **89b:90172**

Cuninghame-Green, R. A. (*with* Burkard, Rainer E.) Saddlepoints in group and semigroup minimization. **89h:90184**

(Cunningham, W. H.) *see* **Submodular optimization, 89g:90181**

Davydov, G. V. (*with* Davydova, I. M.) Non-tree-like coverings in discrete optimization. **89g:90176**

Davydova, I. M. *see* **Davydov, G. V., 89g:90176**

Dawson, D. A. Stochastic models of parallel systems for global optimization. **89c:90089**

Ding, Ke Quan The minimal pseudo-ordered partitions of random permutations. (Chinese) (Not in MR)

Emelichev, V. A. (*with* Perepelitsa, V. A.) Multicriteria problems on graph spanning trees. **89f:90122**

Euler, Reinhardt *see* **Bachem, A., 89m:90129** *and* **89m:90130**

Evans, J. R. Corrigendum: "Structural analysis of local search heuristics in combinatorial optimization" [Comput. Oper. Res. **14** (1987), no. 6, 465–477; MR 88i:90150]. **89d:90171**

Faigle, Ulrich (*with* Schrader, Rainer) Setup optimization problems with matroid structure. **89a:90116**

– (*with* Schrader, Rainer) On the convergence of stationary distributions in simulated annealing algorithms. **89b:90173**

Fan, Yan *see* **Yu, Wen Ci, 89k:90138**

Federgruen, Awi *see* **Anily, S., 89h:90183**

Fischetti, Matteo (*with* Martello, Silvano) A hybrid algorithm for finding the kth smallest of n elements in $O(n)$ time. **89e:90166**

– (*with* Toth, Paolo) A new dominance procedure for combinatorial optimization problems. **89m:90133**

Fishburn, Peter C. (*with* Gehrlein, William V.) Pick-and-choose heuristics for partial set covering. **89m:90134**

Fisher, David C. Next-fit packs a list and its reverse into the same number of bins. **89k:90135**

Fleĭshman, S. B. Effective application of the method of nonsequential dynamic programming in combinatorial optimization. **89d:90172**

Fukao, Takeshi *see* **Zhao, Yue**, (**89f:00029**)

Gabow, Harold N. (*with* Tarjan, Robert E.) Algorithms for two bottleneck optimization problems. **89h:90185**

(Gao, Che) *see* **Korte, B., 89i:90064a** *and* **89i:90064b**

Garey, M. R. *see* **Coffman, E. G., Jr.; et al., 89b:90172**

Gehrlein, William V. *see* **Fishburn, Peter C., 89m:90134**

van Ginneken, L. P. P. P. (*with* Otten, R. H. J. M.) An inner loop criterion for simulated annealing. **89g:90177**

Goetze, B. (*with* Nehrlich, W.) Scaling of random variables and arrangement problems in layout design. (Hungarian summary) **89e:90167**

Gritsak, V. V. Optimization over combinatorial manifolds. (Russian) **89d:90173**

Grötschel, M. (*with* Lovász, L.; Schrijver, Alexander) ★ Geometric algorithms and combinatorial optimization. **89m:90135**

Gulyanitskiĭ, L. F. (*with* Malyshko, S. A.) An efficient algorithm for solving occupancy problems on a semi-infinite tape. (Russian) **89h:90186**

Gupta, Surinder Kumar (*with* Punnen, A. P.) Minimum deviation problems. **89e:90168**

Hajek, Bruce *see* **Sasaki, Galen, 89e:90170**

Hamacher, Horst W. (*with* Queyranne, M.) K best solutions to combinatorial optimization problems. **89b:90174**

– *see also* **Chegireddy, Chandra R., 89j:90209**

Hirata, Hironori *see* **Sugai, Yasuo**, (**89f:00029**)

Hoede, Cornelis Crystallization: a new type of heuristic for the traveling salesman problem and other combinatorial optimization problems. **89h:90187**

Hoffman, Alan J. On greedy algorithms for series parallel graphs. **89d:90174**

Jain, Anjani (*with* Mamer, John W.) Approximations for the random minimal spanning tree with application to network provisioning. **89h:90188**

Johnson, David Stifler *see* **Coffman, E. G., Jr.; et al., 89b:90172**

Kalvin, Alan *see* **Wolfson, Haim; et al.**, (Not in MR)

Karas′, V. M. Stability of approximate solutions of the graph partitioning problem. **89f:90123**

– Stability of approximate combinatorial optimization. (Russian. English summary) **89j:90210**

Khodzinskiĭ, A. N. Investigation of the range of values of the objective function of a linear assignment problem. (Russian) **89e:90169**

Kincaid, Rex K. (*with* Lowe, Timothy J.; Morin, Thomas L.) The location of central structures in trees. (Not in MR)

Kindervater, G. A. P. (*with* Lenstra, J. K.) Parallel computing in combinatorial optimization. **89i:90063**

– (*with* Trienekens, H. W. J. M.) Experiments with parallel algorithms for combinatorial problems. **89a:90117**

Kinsella, John A. Simulated annealing—new developments in combinatorial optimization. **89d:90175**

Kiselev, A. V. On estimation of the global minimum of a problem with signomial constraints and signomial objective functions. **89j:90211**

Kolmychevskaya, N. V. A class of algorithms of coordinate-wise descent type for an integer polymatroid. (Russian) **89f:90124**

Korte, B. Combinatorial optimization. I. (Chinese) **89i:90064a**

– Combinatorial optimziation. II. (Chinese) **89i:90064b**

Kovalev, M. M. ★ Матроиды в дискретной оптимизации. (Russian) [Matroids in discrete optimization] **89c:90090**

Kramosil, Ivan Extremum-searching hierarchical parallel probabilistic algorithms. **89h:90189**

van Laarhoven, P. J. M. ★ Theoretical and computational aspects of simulated annealing. **89m:90136**

Lamdan, Yehezkel *see* **Wolfson, Haim; et al.**, (Not in MR)

Leclerc, M. Ein Simplex-Algorithmus für das partitionsbeschränkte Zuordnungsproblem. [A simplex algorithm for the partition-constrained assignment problem] **89g:90178**

Lenstra, J. K. *see* **Kindervater, G. A. P., 89i:90063**

Lerman, I. C. (*with* Peter, Ph.) Structure maximale pour la somme des carrés d'une contingence aux marges fixées; une solution algorithmique programmée. (English summary) [Maximal structure for the sum of the squares of a fixed-margin contingency: a programmed algorithmic solution] **89f:90125**

Li, Ming^{1} *see* **Bajaj, Chanderjit, 89m:90131**

Liang, Shu Li An optimal policy for machine load regulation. (Chinese. English summary) (Not in MR)

Lovász, L. *see* **Grötschel, M.; et al., 89m:90135**

Lowe, Timothy J. *see* **Kincaid, Rex K.; et al.**, (Not in MR)

Malyshko, S. A. *see* **Gulyanitskiĭ, L. F., 89h:90186**

Mamer, John W. *see* **Jain, Anjani, 89h:90188**

Martello, Silvano *see* **Fischetti, Matteo, 89e:90166**

Mason, A. J. (*with* Philpott, A. B.) Pairing stereo speakers using matching algorithms. **89j:90212**

Mel′nichuk, I. G. An approach to the solution of combinatorial optimization problems. (Russian) **89c:90091**

Meyer, Wolfgang *see* **Brucker, P., 89d:90170**

Möhring, R. H. Algorithmic aspects of the substitution decomposition in optimization over relations, sets systems and Boolean functions. **89b:90175**

Morin, Thomas L. *see* **Kincaid, Rex K.; et al.**, (Not in MR)

Nakajima, Kazuo *see* **Choi, Hyeong-Ah; et al., 89m:90132**

Nehrlich, W. *see* **Goetze, B., 89e:90167**

Nemhauser, G. L. *see* **Pruul, E. A.; et al., 89b:90176**

Otten, R. H. J. M. *see* **van Ginneken, L. P. P. P., 89g:90177**

Parker, R. Gary (*with* Rardin, Ronald L.) ★ Discrete optimization. **89j:90213**

Perepelitsa, V. A. *see* **Emelichev, V. A., 89f:90122**

Peter, Ph. *see* **Lerman, I. C., 89f:90125**

Peterson, Carsten (*with* Anderson, James R.) Neural networks and NP-complete optimization problems; a performance study on the graph bisection problem. **89d:90176**

Philpott, A. B. *see* **Mason, A. J., 89j:90212**

Pruul, E. A. (*with* Nemhauser, G. L.; Rushmeier, R. A.) Branch-and-bound and parallel computation: a historical note. **89b:90176**

Punnen, A. P. *see* **Gupta, Surinder Kumar, 89e:90168**

Queyranne, M. *see* **Hamacher, Horst W., 89b:90174**

Rardin, Ronald L. *see* **Parker, R. Gary, 89j:90213**

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Rim, Chong S. *see* **Choi, Hyeong-Ah; et al., 89m:90132**

Rinnooy Kan, A. H. G. *see* **de Bruin, Arie; et al., 89k:90134**

Rushmeier, R. A. *see* **Pruul, E. A.; et al., 89b:90176**

Sasaki, Galen (*with* Hajek, Bruce) The time complexity of maximum matching by simulated annealing. **89e:90170**

Schonberg, Edith *see* **Wolfson, Haim; et al.**, (Not in MR)

Schrader, Rainer *see* **Faigle, Ulrich, 89a:90116** *and* **89b:90173**

Schrijver, Alexander Polyhedral combinatorics—some recent developments and results. **89i:90065**

— *see also* **Grötschel, M.; et al., 89m:90135**

(Shao, Jia Yu) *see* **Bachem, A., 89m:90129**

Stillinger, F. H. (*with* Weber, T. A.) Nonlinear optimization simplified by hypersurface deformation. **89h:90190**

Stoyan, Yu. G. (*with* Yakovlev, S. V.) Properties of convex functions on a permutation polyhedron. (Russian. English summary) **89g:90179**

Sugai, Yasuo (*with* Hirata, Hironori) Hierarchical simulated annealing optimization in partition problem. (*see* **89f:00029**)

Tamir, Arie Improved complexity bounds for center location problems on networks by using dynamic data structures. **89k:90136**

Tardella, Fabio On a class of functions attaining their maximum at the vertices of a polyhedron. **89k:90137**

Tarjan, Robert E. *see* **Gabow, Harold N., 89h:90185**

Toth, Paolo *see* **Fischetti, Matteo, 89m:90133**

Trienekens, H. W. J. M. *see* **Kindervater, G. A. P., 89a:90117** *and* **de Bruin, Arie; et al., 89k:90134**

Tsitsiklis, John N. A survey of large time asymptotics of simulated annealing algorithms. **89d:90177**

Tsoĭ, È. V. *see* **Yudin, D. B., 89g:90180**

Valuĭskaya, O. V. (*with* Zemlyanukhina, L. N.) Combinatorial algorithms for solving a class of discrete optimization problems. (Russian) **89i:90066**

Vasko, Francis J. (*with* Wolf, Floyd E.) Solving large set covering problems on a personal computer. (Not in MR)

Vercellis, C. A probabilistic analysis of the set packing problem. **89d:90178**

Vinarskiĭ, V. Ya. Optimization of the periodic placing of three-dimensional polygons. (Russian) **89d:90179**

Wang, Zhe Min On the generalized form of the maxflow-mincut theorem in real vector spaces. (Chinese) (Not in MR)

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Weber, T. A. *see* **Stillinger, F. H., 89h:90190**

(Wei, Guo Hua) *see* **Bachem, A., 89m:90130**

Werner, Frank Zu einigen Nachbarschaftsgraphen für die Entwicklung geeigneter Iterationsverfahren zur näherungsweisen Lösung eines speziellen Permutationsproblems. [On some neighborhood graphs for the development of suitable iteration methods for the approximate solution of a special permutation problem] **89i:90067**

Wolf, Floyd E. *see* **Vasko, Francis J.**, (Not in MR)
Wolfson, Haim (*with* Schonberg, Edith; Kalvin, Alan; Lamdan, Yehezkel) Solving jigsaw puzzles by computer. (Not in MR)
Yakovlev, S. V. *see* **Stoyan, Yu. G., 89g:90179**
Yang, Cheng En (*with* Zhang, Zhong Fu) A special class of warehouse layout problems. (Chinese) (Not in MR)
Yu, Wen Ci (*with* Fan, Yan) A penalty function method for a delivery problem. (Chinese. English summary) **89k:90138**
Yudin, D. B. (*with* Tsoĭ, È. V.) Models of generalized mathematical programming with arbitrary binary relations. **89g:90180**
Zablotskaya, O. A. A lower bound on the number of iterations for a lexicographic optimization algorithm. (Russian) **89f:90127**
Zemlyanukhina, L. N. *see* **Valuĭskaya, O. V., 89i:90066**
Zhang, Zhong Fu *see* **Yang, Cheng En**, (Not in MR)
Zhao, Yue (*with* Fukao, Takeshi) Distributed computing of a stochastic algorithm for combinatorial optimization problems. (*see* **89f:00029**)
Zimmermann, Karel On systems of max-separable inequalities. **89f:90128**

Items listed otherwise than by author

Submodular optimization ★ Submodular optimization. **89g:90181**

Items with secondary classifications in 90C27

Aarts, E. (*with* Korst, Jan H. M.; van Laarhoven, P. J. M.) A quantitative analysis of the simulated annealing algorithm: a case study for the traveling salesman problem. **89d:90086**
Aigner, M. ★ Combinatorial search. **89k:68021**
Akhmadkulov, A. On the problem of constructing complex adjoint lines from arcs of circles and straight segments. (Russian) **89g:51018**
Androsov, S. M. (*with* Gluzman, B. Yu.; Oslon, V. A.) Methods for the program realization of algorithms for searching for the shortest distances on a graph in a transportation automatic control system. (Russian. English summary) **89f:05105**
Bajaj, Chanderjit Geometric optimization and the polynomial hierarchy. **89c:68033**
Bartholdi, John J., III (*with* Platzman, Loren K.) Heuristics based on spacefilling curves for combinatorial problems in Euclidean space. **89b:90143**
— (*with* Vande Vate, John H.; Zhang, Jixian) Expected performance of the shelf heuristic for 2-dimensional packing. **89k:68052**
Baskaran, G. *see* **Wille, L. T.; et al., 89d:90096**
(Baum, Eric) *see* **Wille, L. T.; et al., 89d:90096**
Bernasconi, J. Statistical physics and optimization: binary sequences with small autocorrelations. **89h:82038**
Bertsekas, Dimitri P. (*with* Eckstein, Jonathan) Dual coordinate step methods for linear network flow problems. **89k:90164**
Bienstock, Daniel (*with* Monma, Clyde L.) On the complexity of covering vertices by faces in a planar graph. **89d:05064**
Boender, C. G. E. (*with* Rinnooy Kan, A. H. G.; Vercellis, C.) Stochastic optimization methods. **89m:90120**
Bol′shakov, S. Yu. *see* **Davydov, È. G., 89a:90067**
Bornstein, Claudio T. (*with* Rust, R.) Minimizing a sum of staircase functions under linear constraints. **89f:90045**
Boseniuk, T. (*with* Ebeling, Werner) Evolution strategies in complex optimization: the travelling salesman problem. **89k:90050**
Bouchet, André Greedy algorithm and symmetric matroids. **89a:05046**
Bruck, Jehoshua (*with* Goodman, Joseph W.) A generalized convergence theorem for neural networks. **89k:92011**
Cheng, T. C. E. An alternative proof of optimality for the common due-date assignment problem. **89k:90085a**
— Corrigendum: "An alternative proof of optimality for the common due-date assignment problem". **89k:90085b**
Chrobak, Marek (*with* Poljak, Svatopluk) On common edges in optimal solutions to traveling salesman and other optimization problems. **89h:90083**
Davydov, È. G. (*with* Bol′shakov, S. Yu.) ★ Теоретико-групповые методы агрегирования в сетевых задачах. (Russian) [Group-theoretic methods for aggregation in network problems] **89a:90067**
Ebeling, Werner *see* **Boseniuk, T., 89k:90050**
Eckstein, Jonathan *see* **Bertsekas, Dimitri P., 89k:90164**
Ellingham, M. N. Recent progress in edge reconstruction. **89i:05203**
Engel, Jonathan Teaching feed-forward neural networks by simulated annealing. **89m:92015**
Fernández-Baca, David (*with* Slutzki, Giora) Solving parametric problems on trees. **89e:68099**
Frederickson, Greg N. (*with* Srinivas, Mandayam A.) On-line updating of solutions to a class of matroid intersection problems. **89m:05033**
Ghosh, Bijoy Kumar *see* **Lirov, Yuval, 89a:93018**
Gluzman, B. Yu. *see* **Androsov, S. M.; et al., 89f:05105**
Goldschmidt, Yadin Y. *see* **Lai, Pik-Yin, 89a:05120**
Goodman, Joseph W. *see* **Bruck, Jehoshua, 89k:92011**
Gordeev, È. N. Polynomial algorithms for calculating the stability radius for two classes of choice problems. **89e:90177**
Gotoh, Shin'ya *see* **Ueno, Shuichi; et al., 89k:05085**
Grötschel, M. (*with* Holland, O.) A cutting plane algorithm for minimum perfect 2-matchings. (German summary) **89a:05108**
Holland, O. *see* **Grötschel, M., 89a:05108**
Hoppe, Veronika Polymatroide im E_+^3. [Polymatroids in E_+^3] **89a:05047**
Hunt, H. B., III (*with* Stearns, Richard E.) Nonlinear algebra and optimization on rings are "hard". **89h:68062**
— *see also* **Ravi, S. S., 89a:68177**
Jungnickel, Dieter ★ Graphen, Netzwerke und Algorithmen. (German) [Graphs, networks and algorithms] **89e:05001**
Kajitani, Yoji *see* **Ueno, Shuichi; et al., 89k:05085**
Karpiński, M. (*with* Wagner, Klaus Werner) The computational complexity of graph problems with succinct multigraph representation. (German summary) **89e:68052**
Kinnersley, Nancy G. (*with* Langston, Michael A.) Online variable-sized bin packing. **89j:90083**
Kolokol′tsov, V. N. (*with* Maslov, V. P.) General form of endomorphisms in the space of continuous functions with values in a numerical commutative semiring (with the operation $\oplus = \max$). **89h:47044**
Korst, Jan H. M. *see* **Aarts, E.; et al., 89d:90086**
van Laarhoven, P. J. M. *see* **Aarts, E.; et al., 89d:90086**
Lahaije, P. D. M. (*with* Wester, R. H. H.) Efficient road-map management for a car navigation system. **89m:90113**
Lai, Pik-Yin (*with* Goldschmidt, Yadin Y.) Application of statistical mechanics to combinatorial optimization problems: the chromatic number problem and q-partitioning of a graph. **89a:05120**
Langston, Michael A. *see* **Kinnersley, Nancy G., 89j:90083**
Lengauer, Thomas (*with* Müller, Rolf^3) Linear arrangement problems on recursively partitioned graphs. (German summary) **89g:05046**
Lirov, Yuval (*with* Ghosh, Bijoy Kumar) Simultaneous identification of linear systems: a heuristic approach. **89a:93018**
— Kth shortest collision-free path planning. (Not in MR)
Liu, Gui Zhen The connectivity of matroid base graphs. (Chinese) **89m:05036**
Maffioli, Francesco Randomized heuristics for NP-hard problems. **89k:68057**
Maslov, V. P. *see* **Kolokol′tsov, V. N., 89h:47044**
Monma, Clyde L. *see* **Bienstock, Daniel, 89d:05064**
Muchnik, I. B. (*with* Shvartser, L. V.) Submodular set functions and monotone systems in aggregation problems. I. (Russian. English summary) **89a:93005**
— (*with* Shvartser, L. V.) Submodular set functions and monotone systems in aggregation problems. II. (Russian. English summary) **89a:93006**
Müller, Rolf^3 *see* **Lengauer, Thomas, 89g:05046**
Murota, Kazuo Note on the universal bases of a pair of polymatroids. (Japanese summary) **89k:90057**
Nakamura, Masataka Structural theorems for submodular functions, polymatroids and polymatroid intersections. **89f:05055**
Nulton, James D. (*with* Salamon, Peter) Statistical mechanics of combinatorial optimization. **89b:82144**
Olsder, Geert J. (*with* Roos, C.) Cramér and Cayley-Hamilton in the max algebra. **89i:15011**
Oslon, V. A. *see* **Androsov, S. M.; et al., 89f:05105**
Padberg, Manfred Total unimodularity and the Euler-subgraph problem. **89h:90159**
Parisi, Giorgio Spin glasses and optimization problems without replicas. (*see* **89j:82001**)
Platzman, Loren K. *see* **Bartholdi, John J., III, 89b:90143**
Poljak, Svatopluk (*with* Turzík, Daniel) On a facet of the balanced subgraph polytope. **89f:05155**
— *see also* **Chrobak, Marek, 89h:90083**
Pudlák, Pavel (*with* Rödl, Vojtěch; Savický, Petr) Graph complexity. **89k:68123**
Qi, Li Qun Odd submodular functions, Dilworth functions and discrete convex functions. **89i:90046**
Ravi, S. S. (*with* Hunt, H. B., III) An application of the planar separator theorem to counting problems. **89a:68177**
Rinnooy Kan, A. H. G. *see* **Boender, C. G. E.; et al., 89m:90120**
Rödl, Vojtěch (*with* Tovey, C.) Multiple optima in local search. **89a:90095**
— *see also* **Pudlák, Pavel; et al., 89k:68123**
Roos, C. *see* **Olsder, Geert J., 89i:15011**
Rust, R. *see* **Bornstein, Claudio T., 89f:90045**
Salamon, Peter *see* **Nulton, James D., 89b:82144**
Savický, Petr *see* **Pudlák, Pavel; et al., 89k:68123**
Schwiegelshohn, Uwe (*with* Thiele, Lothar) A systolic array for the assignment problem. **89k:90117**
Shvartser, L. V. *see* **Muchnik, I. B., 89a:93005** *and* **89a:93006**
Slutzki, Giora *see* **Fernández-Baca, David, 89e:68099**
Srinivas, Mandayam A. *see* **Frederickson, Greg N., 89m:05033**
Stearns, Richard E. *see* **Hunt, H. B., III, 89h:68062**
Stein, D. L. *see* **Wille, L. T.; et al., 89d:90096**
Stoyan, Yu. G. (*with* Yakovlev, S. V.) Optimization of coverings by translations of bounded sets. (Russian. English summary) **89k:90107**
Thiele, Lothar *see* **Schwiegelshohn, Uwe, 89k:90117**
Tovey, C. *see* **Rödl, Vojtěch, 89a:90095**
Truemper, Klaus Max-flow min-cut matroids: polynomial testing and polynomial algorithms for maximum flow and shortest routes. **89b:05068**
Turzík, Daniel *see* **Poljak, Svatopluk, 89f:05155**
Ueno, Shuichi (*with* Kajitani, Yoji; Gotoh, Shin'ya) On the nonseparating independent set problem and feedback set problem for graphs with no vertex degree exceeding three. **89k:05085**
Vande Vate, John H. *see* **Bartholdi, John J., III; et al., 89k:68052**
Vercellis, C. *see* **Boender, C. G. E.; et al., 89m:90120**
Wagner, Klaus Werner *see* **Karpiński, M., 89e:68052**
Wester, R. H. H. *see* **Lahaije, P. D. M., 89m:90113**
Wiedermann, Juraj ★ Searching algorithms. **89d:68004**
Wille, L. T. Close packing in curved space by simulated annealing. **89d:82005**
— (*with* Baskaran, G.; Stein, D. L.) Comments on: "Intractable computations without local minima" [Phys. Rev. Lett. **57** (1986), no. 21, 2764–2767; MR 87j:90054] by E. B. Baum. **89d:90096**
Yakovlev, S. V. *see* **Stoyan, Yu. G., 89k:90107**
Zhang, Jixian *see* **Bartholdi, John J., III; et al., 89k:68052**

90C30 Nonlinear programming

Abadie, J. (*with* Salhi, Y.) Sur la dérivation numérique en optimisation. (English summary) [On numerical derivation in optimization] **89f:90129**

Adamenko, G. M. Random search subalgorithms in structural adaptation procedures. (Russian) (*see* **89a:00023**)
Ahmed, Mohamed Hassan *see* **Plummer, J.; et al., 89h:90212**
Al-Hassan, Q. *see* **Poore, A. B., 89e:90186**
Andrei, Neculai Application of sparse matrix techniques in GRG algorithm for very large-scale nonlinear programming. (Not in MR)
Antipin, A. S. Nongradient methods for the optimization of saddle functions. (Russian) **89f:90130**
Antonyuk, A. A. (*with* Danilin, Yu. M.) The use of conjugate directions in methods of quasi-Newton type. (Russian) **89f:90131**
— *see also* **Mikhalevich, V. S.; et al., 89k:90144**
Ascher, U. (*with* Osborne, M. R.) A note on solving nonlinear equations and the natural criterion function. **89a:90118**
Bair, J. Un problème de dualité en programmation quasi-concave. (English summary) [A duality problem in quasiconcave programming] **89g:90182**
Bector, C. R. (*with* Bector, Meena K.) Second order duality for a quasi bonvex programming problem. **89b:90177**
— *see also* **Bector, Meena K.; et al., 89j:90214**
Bector, Meena K. (*with* Husain, I.; Chandra, Suresh; Bector, C. R.) A duality model for a generalized minmax program. **89j:90214**
— *see also* **Bector, C. R., 89b:90177**
Belova, I. V. (*with* Zaikina, G. M.) Numerical comparison of some nonlinear optimization methods. (Russian) **89g:90183**
Bereznëv, V. A. (*with* Karmanov, V. G.; Tret′yakov, A. A.) Unconstrained minimization of nonconvex functions. (Russian) **89e:90171**
— (*with* Zavriev, S. N.; Tret′yakov, A. A.) The interconnection between Lagrange's theorem and the geometry of feasible sets. **89g:90184**
Breuer, M. A. *see* **Chowdhury, Salim U., 89b:90179**
Broadie, Mark N. (*with* Eaves, B. Curtis) A variable rate refining triangulation. **89b:90178**
Buĭ Kat Tyong *see* **Emelichev, V. A., 89c:90095**
Bulatov, V. P. Methods for solving multiextremal problems (global search). (Russian) **89d:90180**
Burke, James V. Second order necessary and sufficient conditions for convex composite NDO. **89d:90181**
— (*with* Moré, Jorge J.) On the identification of active constraints. **89i:90068**
Byrd, Richard H. (*with* Schnabel, Robert B.; Shultz, Gerald A.) Using parallel function evaluations to improve Hessian approximation for unconstrained optimization. **89g:90185**
— (*with* Schnabel, Robert B.; Shultz, Gerald A.) Parallel quasi-Newton methods for unconstrained optimization. **89k:90139**
Calamai, Paul H. (*with* Moré, Jorge J.) Projected gradient methods for linearly constrained problems. **89f:90132**
Castellanos Noda, Longina The safeguarded cubic interpolation method for computing a point satisfying the Wolfe conditions. (Spanish. English summary) **89d:90182**
Chadha, S. S. Duality in nonlinear programming. **89h:90191**
Chandra, Suresh *see* **Bector, Meena K.; et al., 89j:90214**
Chaney, Robin W. Second-order directional derivatives for nonsmooth functions. **89c:90092**
— Second-order necessary conditions in constrained semismooth optimization. **89d:90183**
— Second-order necessary conditions in semismooth optimization. **89c:90093**
Chen, Guang Jun Families of point-to-set maps for optimization algorithms. (Chinese) (Not in MR)
— A gradient projection algorithm constructed using generating functions. (Chinese) (Not in MR)
— A gradient projection algorithm for optimization problems with general constraints. (Chinese. English summary) **89f:90133**
Chen, Kai Ming *see* **Yu, Wen Ci**, (Not in MR)
Chen, Mei-Qin (*with* Han, Shih-Ping) A parallel quasi-Newton method for partially separable large scale minimization. **89j:90215**
Chen, Qi Long A gradient acceleration method for solving unconstrained minimization problems. (Chinese. English summary) **89e:90172**
Chepurnoĭ, N. D. Necessary and sufficient conditions for the convergence of algorithms to the set of fixed points of upper-semicontinuous multivalued mappings. (Russian) **89d:90184**
— Monotone methods with averaging of subgradients and their stochastic finite-difference analogues. **89g:90186**
— Combined subgradient monotone methods for minimizing nonsmooth functions. **89i:90069**
Cherkasskiĭ, B. V. *see* **Nesterov, Yu. E., 89b:90190**
Chowdhury, Salim U. (*with* Breuer, M. A.) Optimization algorithms for a class of nonlinear programming problems. **89b:90179**
Chua, Leon O. *see* **Kennedy, Michael Peter, 89d:90192**
Chumburidze, G. G. (*with* Kikvadze, T. F.) An approach to the solution of a discrete minimax problem with constraints. (Russian. English and Georgian summaries) **89e:90173**
Clark, P. A. (*with* Westerberg, A. W.) A note on the optimality conditions for the bilevel programming problem. **89g:90187**
Conn, A. R. (*with* Gould, N. I. M.) An exact penalty function for semi-infinite programming. **89b:90180**
— (*with* Gould, N. I. M.; Toint, Ph. L.) Global convergence of a class of trust region algorithms for optimization with simple bounds. **89h:90192**
Corley, H. W. Optimality conditions for maximizations of set-valued functions. **89f:90134**
Danilin, Yu. M. (*with* Kovnir, V. N.) A method of exact penalties with total account of the constraints. (Russian. English summary) **89d:90185**
— A method of gradient type for minimization of nonsmooth penalty functions. **89m:90137**
— *see also* **Antonyuk, A. A., 89f:90131**
Dembo, Ron S. (*with* Tulowitzki, Ulrich) Computing equilibria on large multicommodity networks: an application of truncated quadratic programming algorithms. **89j:90216**
Deng, Nai Yang (*with* Ma, Guo Yu) The penalty function method. (Chinese) (Not in MR)
Dennis, John E., Jr. (*with* Turner, Kathryn) Generalized conjugate directions. **89c:90094**
Dinkel, John J. (*with* Tretter, Marietta J.) An interval arithmetic approach to sensitivity analysis in geometric programming. **89b:90181**
Di Pillo, G. (*with* Grippo, L.) Recent results on nondifferentiable exact penalty functions. **89k:90140**
— (*with* Grippo, L.) On the exactness of a class of nondifferentiable penalty functions. **89h:90193**
Dixon, L. C. W. (*with* Price, R. C.) Numerical experience with the truncated Newton method for unconstrained optimization. **89e:90174**
Dodu, J. C. (*with* Huard, P.) Méthodes de quasi-Newton sous contraintes non linéaires: algorithmes à convergence locale superlinéaire. (English summary) [Quasi-Newton methods in the nonlinearly constrained case: locally and superlinearly convergent algorithms] **89i:90070**
Dubrovskiĭ, V. B. *see* **Mikhalevich, V. S.; et al., 89h:90204**
Duca, Dorel I. Saddlepoint necessary criteria for nonlinear programming in complex space. **89g:90188**
Duca, Eugenia An inequality which is not an abstract geometric inequality. **89f:90135**
Dudnik, V. G. On the approximate calculation of fixed points of continuous mappings. (Russian) **89a:90119**
Dunn, J. C. On the convergence of projected gradient processes to singular critical points. **89a:90120**
— A projected Newton method for minimization problems with nonlinear inequality constraints. **89g:90189**
— *see also* **Gawande, M., 89h:90198**
Eaves, B. Curtis *see* **Broadie, Mark N., 89b:90178**
Ecker, J. G. *see* **Kupferschmid, Michael, 89c:90096**
Egorushkin, A. A. (*with* Zyabrev, N. B.) One-product one-factor nonlinear programming problems with decreasing cost function and general constraints. (Russian) **89a:90121**
— (*with* Zyabrev, N. B.) Solution of a multifactor problem of nonlinear programming. (Russian) **89h:90194**
— (*with* Zyabrev, N. B.; Tikhonov, A. N.) A multifactor nonlinear programming problem with decreasing cost function. (Russian) **89h:90195**
Eiselt, H. A. (*with* Pederzoli, G.; Sandblom, C.-L.) ★ Continuous optimization models. **89d:90186**
Elster, K.-H. (*with* Reinhardt, Rüdiger) Über Abstiegsmethoden in Lösungsverfahren der nichtlinearen Optimierung. [On descent methods in solution procedures of nonlinear programming] **89d:90187**
Emelichev, V. A. (*with* Buĭ Kat Tyong) A decompositional approach to the solution of quasiblock problems of discrete optimization on the basis of a method for constructing a sequence of plans. (Russian. English summary) **89c:90095**
Escudero, L. F. An algorithm for obtaining the multivariate stepsize in linearly constrained nonlinear programming. (Spanish. English summary) **89a:90122**
Evtushenko, Yu. G. Accuracy estimates in penalty function methods. (Russian) **89j:90217**
— (*with* Rat′kin, V.) The method of half-divisions for global optimization of a function of many variables. **89f:90136**
— (*with* Zhadan, V. G.) ★ К вопросу о систематизации численных методов нелинейного программирования. (Russian) [Problems in systematization of numerical methods for nonlinear programming] **89k:90141**
Fernandes, Edite M. G. P. Choice of step length. A crucial factor in the performance of some algorithms based on least square techniques. **89b:90182**
(Flachs, Jacob) *see* **Pang, Ying**, (Not in MR)
Fontecilla, R. A heuristic algorithm for nonlinear programming. **89h:90196**
Ford, J. A. (*with* Saadallah, A. F.) A rational function model for unconstrained optimization. **89e:90175**
Forgó, Ferenc ★ Nonconvex programming. **89m:90138**
Fukushima, Masao Solving inequality constrained optimization problems by differential homotopy continuation methods. **89g:90190**
— *see also* **Tanaka, Yoshihiro; et al., 89h:90217**
Gabidullina, Z. R. On the convergence of the conditional gradient method for a class of nonconvex functions. (Russian) **89f:90137**
Galiev, Sh. I. Numerical solution of some minimaxmin problems. (Russian) **89f:90138**
Galperin, E. A. Precision, complexity, and computational schemes of the cubic algorithm. **89h:90197**
Gawande, M. (*with* Dunn, J. C.) A projected Newton method in a Cartesian product of balls. **89h:90198**
Gerth, Christiane Näherungslösungen in der Vektoroptimierung. [Approximate solutions in vector optimization] **89f:90139**
Giannessi, F. Theorems of the alternative for multifunctions with applications to optimization: general results. **89a:90123**
— On a generalization of F. John theorem for constrained extremum problems. **89i:90071**
Gilbert, Jean Charles A step-size selection procedure for equality constrained optimization. (French summary) **89e:90176**
— Mise à jour de la métrique dans les méthodes de quasi-Newton réduites en optimisation avec contraintes d'égalité. (English summary) [Update of the metric in reduced quasi-Newton methods in optimization with equality constraints] **89g:90191**
Gill, Philip E. (*with* Murray, Walter; Saunders, Michael A.; Wright, Margaret H.) Recent developments in constrained optimization. **89j:90218**
Goldstein, Larry Mark Mean square rates of convergence in the continuous time simulated annealing algorithm on $\mathbf{R}^d$. **89g:90192**
Gordeev, È. N. Polynomial algorithms for calculating the stability radius for two classes of choice problems. **89e:90177**
Gould, N. I. M. On the accurate determination of search directions for simple differentiable penalty functions. **89i:90072**
— On solving three classes of nonlinear programming problems via simple differentiable penalty function. **89d:90188**
— *see also* **Conn, A. R., 89b:90180** *and* **89h:90192**
Grippo, L. (*with* Lampariello, F.; Lucidi, S.) Newton-type algorithms with nonmonotone line search for large-scale unconstrained optimization. **89j:90219**
— *see also* **Di Pillo, G., 89h:90193** *and* **89k:90140**
Grzegórski, S. M. Multilevel least-change Newton-like methods for equality constrained optimization problems. **89a:90124**

Gulati, T. R. (*with* Islam, M. A.) A note on the weak Arrow-Hurwicz-Uzawa constraint qualification. **89b:90183**
Guo, Jian[1] Invariance and convergence of a modified conjugate gradient method. (Chinese) (Not in MR)
Gupal, A. M. *see* **Mikhalevich, V. S.; et al., 89f:90148** *and* **89h:90204**
Hager, W. W. Dual techniques for constrained optimization. **89j:90220**
— (*with* Presler, Dwayne L.) Dual techniques for minimax. **89b:90184**
Hajek, Bruce Cooling schedules for optimal annealing. **89f:90140**
Hamami, M. (*with* Jacobsen, S. E.) Exhaustive nondegenerate conical processes for concave minimization on convex polytopes. **89m:90139**
Han, Ji Ye *see* **Yue, Min Yi**, (Not in MR)
Han, Shih-Ping A successive projection method. **89b:90185**
— *see also* **Chen, Mei-Qin, 89j:90215**
Handschug, M. On equivalent quasidifferentials in the two-dimensional case. **89j:90221**
Hansen, Pierre (*with* Jaumard, Brigitte; Lu, Shi Hui) Approche analytique de l'optimisation globale. (English summary) [Analytical approach to global optimization] **89b:90186**
Hanson, Morgan A. (*with* Mond, B.) Convex transformable programming problems and invexity. **89b:90187**
— *see also* **Rueda, Norma G., 89d:90199**
He, Guang Zong Discussion of an improvement in the gradient projection method. (Chinese) (Not in MR)
He, Li Min A modification of Powell-Zangwill's method and its rate of convergence. (Chinese) (Not in MR)
— A modification of Powell-Zangwill's method and its rate of convergence. **89a:90125**
Helbig, Siegfried On the continuity of the feasible set in extremally linear problems. **89e:90178**
Herskovits, José N. *see* **Panier, Eliane R.; et al., 89h:90209**
Hoàng Tụy (*with* Nguyen Van Thuong) On the global minimization of a convex function under general nonconvex constraints. **89j:90222**
— (*with* Horst, Reiner) Convergence and restart in branch-and-bound algorithms for global optimization. Application to concave minimization and D.C. optimization problems. **89m:90140**
— *see also* **Phan Thiên Thạch, 89b:90192; Horst, Reiner; et al., 89f:90141** *and* **Utkin, S. L.; et al., 89k:90148**
Horst, Reiner (*with* Nguyen Van Thoai; Hoàng Tụy) Outer approximation by polyhedral convex sets. (German summary) **89f:90141**
— Deterministic global optimization with partition sets whose feasibility is not known: application to concave minimization, reverse convex constraints, DC-programming, and Lipschitzian optimization. **89i:90073**
— (*with* de Vries, Jakob; Nguyen Van Thoai) On finding new vertices and redundant constraints in cutting plane algorithms for global optimization. **89d:90189**
— *see also* **Hoàng Tụy, 89m:90140**
Huang, Zhi Jian *see* **Zhang, Lian Sheng, 89m:90147**
Huard, P. *see* **Dodu, J. C., 89i:90070**
Hull, David G. On the variational process in parameter optimization. **89d:90190**
Husain, I. *see* **Bector, Meena K.; et al., 89j:90214**
Ibaraki, Toshihide (*with* Katoh, Naoki) ★ Resource allocation problems. **89e:90179**
— *see also* **Tanaka, Yoshihiro; et al., 89h:90217**
Indihar, Stane A combinatorial method for bilinear programming. (German summary) **89a:90126**
Ishizuka, Y. Farkas' theorem of nonconvex type and its application to a min-max problem. **89h:90199**
Islam, M. A. *see* **Gulati, T. R., 89b:90183**
Jacobsen, S. E. *see* **Hamami, M., 89m:90139**
Jaumard, Brigitte *see* **Hansen, Pierre; et al., 89b:90186**
Jeyakumar, V. Equivalence of saddle-points and optima, and duality for a class of nonsmooth nonconvex problems. **89f:90142**
Jongen, H. Th. (*with* Möbert, T.; Rückmann, Jan; Tammer, Klaus) On inertia and Schur complement in optimization. **89f:90143**
Kabadi, Santosh N. *see* **Murty, Katta G., 89b:90189**
Karmanov, V. G. *see* **Bereznëv, V. A.; et al., 89e:90171**
Käschel, Joachim Numerische Betrachtungen zur Realisierung der primalen Dekomposition in glatten Optimierungsproblemen. [Numerical considerations on the realization of the primal decomposition in smooth optimization problems] **89f:90144**
Kashina, O. A. *see* **Zabotin, Ya. I., 89g:90204**
Katoh, Naoki *see* **Ibaraki, Toshihide, 89e:90179**
Kaufmann, Heinz A note on a paper of J. Parida and K. L. Roy on existence of optimal solutions: "An existence theorem for a nonlinear nondifferentiable programming problem" [Opsearch 24 (1987), no. 1, 7–18]. (Not in MR)
Kaul, R. N. (*with* Lyall, Vinod) Nonconvex and semi-differentiable functions. **89m:90141**
Kawasaki, Hidefumi Second-order necessary conditions of the Kuhn-Tucker type under new constraint qualifications. **89f:90145**
— An envelope-like effect of infinitely many inequality constraints on second-order necessary conditions for minimization problems. **89d:90191**
Kennedy, David Some branch and bound techniques for nonlinear optimization. **89g:90193**
Kennedy, Michael Peter (*with* Chua, Leon O.) Neural networks for nonlinear programming. **89d:90192**
Khachaturov, V. R. *see* **Utkin, S. L.; et al., 89k:90148**
Kikvadze, T. F. *see* **Chumburidze, G. G., 89e:90173**
Kim, Sehun (*with* Koh, Seokha) On Poljak's improved subgradient method. **89f:90146**
Kiselëva, E. M. A generalization of a problem of optimal partitioning with constraints. (Russian) (*see* **89f:00011**)
Kiwiel, K. C. A direct method of linearization for continuous minimax problems. **89d:90193**
— Descent methods for quasidifferentiable minimization. **89g:90194**
Klatte, Diethard (*with* Tammer, Klaus) On second-order sufficient optimality conditions for $C^{1,1}$-optimization problems. **89a:90127**
— On strongly stable local minimizers in nonlinear programs. **89k:90142**
— (*with* Tammer, Klaus) On second-order sufficient optimality conditions for $C^{1,1}$-optimization problems. **89b:90200**
Kleinmichel, H. (*with* Schönefeld, K.) Newton-type methods for nonlinearly constrained programming problems. Algorithms and theory. **89j:90223**
Koh, Seokha *see* **Kim, Sehun, 89f:90146**
Kokorev, M. A. One-step optimal approximation of doubly differentiable functions. **89d:90194**
Kolmychevskiĭ, A. V. Asymptotic behavior and acceleration of convergence of a stationary gradient method. (Russian) **89g:90195**
Kondo, Eiji *see* **Mazeed, Mohammed Abdul; et al., 89a:90131**
Konysheva, V. M. (*with* Shil'man, S. V.) Estimates for the rate of convergence of random descent algorithms. (Russian) **89g:90196**
Körner, F. (*with* Luderer, Bernd) A simultaneous method for checking second-order Kuhn-Tucker conditions for equality constrained nonlinear programming problems. **89j:90224**
Korop, V. F. (*with* Sharapova, G. V.) A method for the strategic adaptation of step-type optimization algorithms. (Russian) (*see* **89a:00023**)
Kovnir, V. N. *see* **Danilin, Yu. M., 89d:90185**
Kreimer, Joseph (*with* Rubinstein, Reuven Y.) Smoothed functionals and constrained stochastic approximation. **89e:90180**
Kummer, Bernd Newton's method for nondifferentiable functions. **89h:90201**
Kummer, Monika Über spezielle Klassen nichtkonvexer Optimierungsaufgaben, die auf konvexe überführt werden können. [On special classes of nonconvex optimization problems that can be transformed into convex ones] **89i:90074**
Kupferschmid, Michael (*with* Ecker, J. G.) A note on solution of nonlinear programming problems with imprecise function and gradient values. **89c:90096**
Kutateladze, S. S. Nonstandard remarks on limits of supergraphs. (Russian) **89a:90128**
Kuz'menko, V. N. Application of a method of sequential analysis of variants for solving a nonlinear programming problem. (Russian) **89k:90143**
Kyparisis, Jerzy Sensitivity analysis for nonlinear programs with linear constraints. **89a:90129**
Lampariello, F. *see* **Grippo, L.; et al., 89j:90219**
Lasdon, L. S. *see* **Plummer, J.; et al., 89h:90212**
Lazarev, A. V. Convergence of the t-method for solving nonlinear minimax problems. (Russian. English summary) **89d:90195**
Lazimy, Rafael An exact penalty function and relaxation approach for solving decomposable nonlinear programs. **89b:90188**
Lescrenier, M. Partially separable optimization and parallel computing. **89g:90198**
Le Van Dien Minimizing a quasi-concave function subject to a reverse convex constraint. **89g:90197**
Li, Heng Long (*with* Papalambros, Panos Y.) Monotonicity and constraint activity. (Chinese) (Not in MR)
Li, Ke Wu *see* **Wang, Yong Le**, (Not in MR)
Li, Tien-Yien (*with* Sauer, Tim; Yorke, James A.) Numerical solution of a class of deficient polynomial systems. **89e:90181**
Liu, Qin Sheng An optimization method using a nonquadratic model. (Chinese) (Not in MR)
Lommatzsch, Klaus A minimization of a strictly convex function on a simplex. **89f:90147**
Lootsma, Freerk A. (*with* Ragsdell, K. M.) State-of-the-art in parallel nonlinear optimization. **89a:90130**
Lovejoy, William S. On the convexity of policy regions in partially observed systems. **89h:90202**
Lu, Shi Hui *see* **Hansen, Pierre; et al., 89b:90186**
Lucidi, S. New results on a class of exact augmented Lagrangians. **89i:90075**
— *see also* **Grippo, L.; et al., 89j:90219**
Luderer, Bernd *see* **Körner, F., 89j:90224**
Luo, Wan Min A comparative study of software packages for nonlinear programming. (Chinese. English summary) **89j:90225**
Lupşa, Liana Duality theorems for rational programming problems. (Not in MR)
Lyall, Vinod *see* **Kaul, R. N., 89m:90141**
Ma, Guo Yu *see* **Deng, Nai Yang**, (Not in MR)
Makhmudov, È. N. A polyhedral optimization problem for polyhedral discrete and differential inclusions, and duality. **89i:90076**
Mayne, D. Q. (*with* Meewella, C. C.) A nonclustering multistart algorithm for global optimization. **89e:90182**
— *see also* **Meewella, C. C., 89h:90203**
Mazeed, Mohammed Abdul (*with* Sunaga, Teruo; Kondo, Eiji) Optimization of nonlinear programming problems using penalty functions and complex method. (Japanese summary) **89a:90131**
McCormick, Garth P. Verification of high order optimality conditions using the polyadic representation of derivatives. **89d:90196**
Meewella, C. C. (*with* Mayne, D. Q.) An algorithm for global optimization of Lipschitz continuous functions. **89h:90203**
— *see also* **Mayne, D. Q., 89e:90182**
Mifflin, Robert (*with* Strodiot, J.-J.) A bracketing technique to ensure desirable convergence in univariate minimization. **89m:90142**
Mikhalevich, V. S. (*with* Gupal, A. M.; Norkin, V. I.) ★ Методы невыпуклой оптимизации. (Russian) [Nonconvex optimization methods] **89f:90148**
— (*with* Redkovskiĭ, N. N.; Perekatov, A. E.) Methods for the minimization of functions on a sphere and their applications. (Russian. English summary) **89e:90183**
— (*with* Redkovskiĭ, N. N.; Antonyuk, A. A.) Minimization methods for smooth nonconvex functions. **89k:90144**
— (*with* Gupal, A. M.; Dubrovskiĭ, V. B.) Global character of exact nonsmooth penalties. (Russian. English summary) **89h:90204**
Möbert, T. *see* **Jongen, H. Th.; et al., 89f:90143**
Mond, B. *see* **Hanson, Morgan A., 89b:90187**
Moore, R. E. (*with* Ratschek, Helmut) Inclusion functions and global optimization. II. **89j:90226**
Morar', V. A. Stability of quasi-Newton methods for conditional optimization. (Russian) **89f:90149**
Moré, Jorge J. *see* **Calamai, Paul H., 89f:90132** *and* **Burke, James V., 89i:90068**

(Müller-Merbach, Heiner) *see* **Eiselt, H. A.; et al., 89d:90186**

Murray, Walter *see* **Gill, Philip E.; et al., 89j:90218**

Murty, Katta G. (*with* Kabadi, Santosh N.) Some NP-complete problems in quadratic and nonlinear programming. **89b:90189**

Nash, John Christopher (*with* Nash, Stephen G.) Compact algorithms for function minimization. **89j:90227**

Nash, Stephen G. Avoiding modified matrix factorizations in Newton-like methods. **89k:90145**

— *see also* **Nash, John Christopher, 89j:90227**

Nemchenko, K. I. Extension of the feasible domain of auxiliary problems by a linearization method. (Russian) **89h:90205**

Nenakhov, È. I. An algorithm for solving a problem of nonsmooth optimization. (Russian) **89e:90184**

Nesterov, Yu. E. (*with* Cherkasskiĭ, B. V.) Lexicographic rules for the differentiation of nonsmooth functions. **89b:90190**

Nguyên Công Binh (*with* Tô Câm Tu) Un algorithme de résolution d'un problème de programmation non linéaire. [An algorithm for solving a nonlinear programming problem] **89h:90206**

Nguyen Van Thoai A modified version of Tuy's method for solving d.c. programming problems. **89k:90146**

— *see also* **Horst, Reiner; et al., 89d:90189** *and* **89f:90141**

Nguyen Van Thuong *see* **Hoàng Tụy, 89j:90222**

Norkin, V. I. Necessary and sufficient conditions for the convergence of iterative algorithms of nonlinear programming. (Russian. English summary) **89h:90207**

— *see also* **Mikhalevich, V. S.; et al., 89f:90148**

Osborne, M. R. The reduced gradient algorithm. **89h:90208**

— *see also* **Ascher, U., 89a:90118**

Outrata, Jiří V. A note on the usage of nondifferentiable exact penalties in some special optimization problems. **89j:90228**

Pak, Gwang Il A solution method of the linearly constrained discrete minimax problem. (Korean. English summary) **89m:90143**

Pallaschke, Diethard Quasidifferentiable functions in nondifferentiable optimization theory. **89f:90150**

Pang, Ying (*with* Wu, Shi Quan) Comment: "On the convergence, invariance and related aspects of a modification of Huang's algorithm" [J. Optim. Theory Appl. **37** (1982), no. 3, 315–341; MR 83g:90122] by J. Flachs. (Chinese) (Not in MR)

Panier, Eliane R. (*with* Tits, André L.; Herskovits, José N.) A QP-free, globally convergent, locally superlinearly convergent algorithm for inequality constrained optimization. **89h:90209**

Panin, V. M. Finite penalty methods in equality constrained problems. (Russian) **89h:90210**

— A linear finite penalty method with a controllable descent vector. **89f:90151**

— A linear finite penalty method with controllable ε-descent. (Russian) **89c:90097**

Papalambros, Panos Y. *see* **Li, Heng Long,** (Not in MR)

Pardalos, P. M. (*with* Rosen, J. B.) ★ Constrained global optimization: algorithms and applications. **89b:90191**

— Quadratic problems defined on a convex hull of points. **89d:90197**

— Enumerative techniques for solving some nonconvex global optimization problems. (German summary) **89f:90152**

(Parida, J.) *see* **Kaufmann, Heinz,** (Not in MR)

Pederzoli, G. *see* **Eiselt, H. A.; et al., 89d:90186**

Penev, G. D. (*with* Roslyakov, A. P.) Application of a method of parametric functionals for nonlinear global optimization. (Russian. English summary) **89j:90229**

Perekatov, A. E. *see* **Mikhalevich, V. S.; et al., 89e:90183**

Pevnyi, A. B. Optimality of a spline algorithm for finding the maximum of a class of functions of several variables. **89e:90185**

Phan Thiên Thạch The design centering problem as a D.C. programming problem. **89i:90077**

— (*with* Hoàng Tụy) Parametric approach to a class of nonconvex global optimization problems. **89b:90192**

Pintér, J. (*with* Szábo, János Adolph) Global optimization algorithms: theory and some applications. **89d:90198**

— Branch-and-bound algorithms for solving global optimization problems with Lipschitzian structure. **89f:90153**

— *see also* **Žilinskas, Antanas, 89f:90162**

Plastria, F. The minimization of lower subdifferentiable functions under nonlinear constraints: an all feasible cutting plane algorithm. **89h:90211**

Plummer, J. (*with* Lasdon, L. S.; Ahmed, Mohamed Hassan) Solving a large nonlinear programming problem on a vector processing computer. **89h:90212**

Polyak, R. Local structure of convex equilibrium problems. **89f:90154**

— Modified barrier and center methods. **89g:90199**

Poore, A. B. (*with* Al-Hassan, Q.) The expanded Lagrangian system for constrained optimization problems. **89e:90186**

Posner, Marc E. (*with* Suzuki, Hisatoshi) A dual approach to the continuous collapsing knapsack problem. **89a:90132**

Powell, M. J. D. Methods for nonlinear constraints in optimization calculations. **89a:90133**

Presler, Dwayne L. *see* **Hager, W. W., 89b:90184**

Price, R. C. *see* **Dixon, L. C. W., 89e:90174**

Pshenichnyĭ, B. N. The method of linearization. **89e:90187**

Ragsdell, K. M. *see* **Lootsma, Freerk A., 89a:90130**

Raouf, Samir S. (*with* Rashid, Najat M.) A new direct search optimization method. **89g:90200**

Rapcsák, T. Minimum problems on differentiable manifolds. **89k:90147**

Rashid, Najat M. *see* **Raouf, Samir S., 89g:90200**

Rat'kin, V. *see* **Evtushenko, Yu. G., 89f:90136**

Ratschek, Helmut (*with* Voller, Rudolf) Global optimization over unbounded domains. (Not in MR)

— *see also* **Moore, R. E., 89j:90226**

Redkovskiĭ, N. N. *see* **Mikhalevich, V. S.; et al., 89e:90183** *and* **89k:90144**

Reiland, Thomas W. A geometric approach to nonsmooth optimization with sample applications. **89a:90134**

Reinhardt, Rüdiger *see* **Elster, K.-H., 89d:90187**

Renegar, James Rudiments of an average case complexity theory for piecewise-linear path following algorithms. **89b:90193**

Ringuest, Jeffrey L. Substitute derivatives in unconstrained optimization: a comparison of finite difference and response surface approximations. **89e:90188**

Rinnooy Kan, A. H. G. (*with* Timmer, G. T.) Stochastic global optimization methods. I. Clustering methods. **89a:90135**

— (*with* Timmer, G. T.) Stochastic global optimization methods. II. Multilevel methods. **89a:90136**

Rosen, J. B. *see* **Pardalos, P. M., 89b:90191**

Roslyakov, A. P. *see* **Penev, G. D., 89j:90229**

(Roy, K. L.) *see* **Kaufmann, Heinz,** (Not in MR)

Rubal'skiĭ, G. B. The bisection method in the pit-filling problem. (Russian) **89e:90189**

Rubinstein, Reuven Y. *see* **Kreimer, Joseph, 89e:90180**

Rückmann, Jan (*with* Tammer, Klaus) Theoretical foundations of two-level methods in nonconvex optimization. **89f:90155**

— *see also* **Jongen, H. Th.; et al., 89f:90143**

Rueda, Norma G. (*with* Hanson, Morgan A.) Optimality criteria in mathematical programming involving generalized invexity. **89d:90199**

Saadallah, A. F. *see* **Ford, J. A., 89e:90175**

Sahba, M. Algorithms for solving nonlinear inequalities in a finite number of iterations using approximate derivatives. **89a:90137**

Sakawa, Masatoshi Interactive fuzzy goal programming for multiobjective nonlinear programming problems. (Not in MR)

Salhi, Y. *see* **Abadie, J., 89f:90129**

Sandblom, C.-L. *see* **Eiselt, H. A.; et al., 89d:90186**

Sauer, Tim *see* **Li, Tien-Yien; et al., 89e:90181**

Saunders, Michael A. *see* **Gill, Philip E.; et al., 89j:90218**

Schellhorn, Jean-Pierre Fitting data through homotopy methods. **89f:90156**

Schittkowski, K. NLPQL: a FORTRAN subroutine solving constrained nonlinear programming problems. **89d:90200**

Schnabel, Robert B. Concurrent function evaluations in local and global optimization. **89d:90201**

— *see also* **Byrd, Richard H.; et al., 89g:90185** *and* **89k:90139**

Schönefeld, K. *see* **Kleinmichel, H., 89j:90223**

Schramm, H. (*with* Zowe, J.) A combination of the bundle approach and the trust region concept. **89h:90213**

Şerban, R. Algorithms of unidimensional optimization. **89b:90194**

— Solving some systems of nonlinear equations by means of function optimizing algorithms. **89f:90157**

Shapiro, Alexander Sensitivity analysis of nonlinear programs and differentiability properties of metric projections. **89j:90230**

Sharapova, G. V. *see* **Korop, V. F., (89a:00023)**

Shil'man, S. V. *see* **Konysheva, V. M., 89g:90196**

Shoman, S. V. *see* **Tokareva, O. N., 89f:90158**

Shor, N. Z. An approach to obtaining global extrema in polynomial problems of mathematical programming. (Russian. English summary) **89d:90202**

— A class of estimates for the global minimum of polynomial functions. (Russian. English summary) **89e:90190**

Shultz, Gerald A. *see* **Byrd, Richard H.; et al., 89g:90185** *and* **89k:90139**

Singer, Ivan Generalizations of convex supremization duality. **89b:90195**

Snyman, J. A. A parameter-free multiplier method for constrained minimization problems. **89h:90214**

Sobol', I. M. Search for extremal values of a function of several variables that satisfies a general Lipschitz condition. (Russian) **89h:90215**

Sobolenko, L. A. A method for solving a nonlinear programming problem with simple constraints. (Russian) **89d:90203**

— Accounting for simple constraints in the linearization method. (Russian) **89h:90216**

Solov'ëv, V. N. The duality of some nonconvex extremal problems. (Russian) **89b:90196**

Sreedharan, V. P. ε-subgradient projection algorithm. **89a:90138**

Strodiot, J.-J. *see* **Mifflin, Robert, 89m:90142**

Sun, Shi Jie A new algorithm for successive orthogonalization. (Chinese) (Not in MR)

— Convergence of Wolfe's reduced gradient method for ε accuracy. (Chinese. English summary) **89e:90191**

Sunaga, Teruo *see* **Mazeed, Mohammed Abdul; et al., 89a:90131**

Suzuki, Hisatoshi *see* **Posner, Marc E., 89a:90132**

Szábo, János Adolph *see* **Pintér, J., 89d:90198**

Tammer, Klaus *see* **Klatte, Diethard, 89a:90127; Jongen, H. Th.; et al., 89f:90143; Rückmann, Jan, 89f:90155** *and* **Klatte, Diethard, 89h:90200**

Tanabe, Kunio Centered Newton method for mathematical programming. **89j:90231**

Tanaka, Yoshihiro (*with* Fukushima, Masao; Ibaraki, Toshihide) A comparative study of several semi-infinite nonlinear programming algorithms. **89h:90217**

Tapia, R. A. On secant updates for use in general constrained optimization. **89g:90201**

Temirgaliev, N. *see* **Voronin, S. M., 89d:90205**

Tewarson, R. P. *see* **Zhang, Yin[1], 89f:90161**

Tikhonov, A. N. *see* **Egorushkin, A. A.; et al., 89h:90195**

Timmer, G. T. *see* **Rinnooy Kan, A. H. G., 89a:90135** *and* **89a:90136**

Tits, André L. *see* **Panier, Eliane R.; et al., 89h:90209**

Tô Câm Tu *see* **Nguyên Công Binh, 89h:90206**

Toint, Ph. L. *see* **Conn, A. R.; et al., 89h:90192**

Tokareva, O. N. Some algorithms for solving block nonlinear programming problems. (Russian) **89d:90204**

— (*with* Shoman, S. V.) Decomposition algorithms for sequential quadratic programming using penalty functions. (Russian) **89f:90158**

Tretter, Marietta J. *see* **Dinkel, John J., 89b:90181**

Tret'yakov, A. A. *see* **Bereznëv, V. A.; et al., 89e:90171** *and* **89g:90184**

Triseev, Yu. P. Approaches to the solution of mathematical programming problems on the basis of heuristic self-organization. **89b:90197**

Troutt, Marvin D. Conceptual machines which demonstrate the existence of Brouwer fixed points. **89g:90202**

Tsirlin, A. M. Optimization algorithms based on the solution of an equation that includes a feasibility function. **89j:90232**

Tulowitzki, Ulrich *see* **Dembo, Ron S., 89j:90216**

Turner, Kathryn *see* **Dennis, John E., Jr., 89c:90094**

Utkin, S. L. (*with* Khachaturov, V. R.; Hoàng Tụy) Conical algorithms for solving the concave programming problem and some of its generalizations. (Russian) **89k:90148**

Vasil′ev, F. P. Application of nonsmooth penalty functions in the method of regularization of unstable minimization problems. (Russian) **89j:90233**

Voller, Rudolf *see* **Ratschek, Helmut**, (Not in MR)

Voloshin, A. F. A method for localization of the optimum region in problems of mathematical programming. (Russian) **89b:90198**

Voronin, S. M. (*with* Temirgaliev, N.) On the calculation of the extremum of a functional. (Russian. Kazakh summary) **89d:90205**

de Vries, Jakob *see* **Horst, Reiner; et al., 89d:90189**

Wang, Chang Yu Weak convergence of an algorithm for families of point-to-set mappings. (Chinese) **89h:90218**

Wang, De Ren General solutions and minimum norm solutions of quasi-Newton equations. (Chinese) (Not in MR)

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Wang, Shou Yang Estimates of the bounds of the controlling parameters in some classes of nonsmooth exact penalty functions. (Chinese. English summary) **89a:90139**

Wang, Yong Le (*with* Li, Ke Wu) On a new augmented Lagrangian method. (Chinese) (Not in MR)

Wang, Ze Ke A survey of simplicial fixed point algorithms. (Chinese. English summary) **89m:90144**

— The geometric theory of homotopy algorithms. (Chinese. English summary) **89m:90145**

Ward, Doug Isotone tangent cones and nonsmooth optimization. **89d:90206**

— Exact penalties and sufficient conditions for optimality in nonsmooth optimization. **89k:90149**

Wardi, Y. A stochastic algorithm for optimization problems with continua of inequalities. **89b:90199**

— A stochastic steepest-descent algorithm. **89m:90146**

Wei, Chang Hua A discussion of the convergence rate of a feasible direction method. (Chinese. English summary) **89f:90159**

Westerberg, A. W. *see* **Clark, P. A., 89g:90187**

Wright, Margaret H. *see* **Gill, Philip E.; et al., 89j:90218**

Wu, Shao Qiang A note on improper multipliers in the Kuhn-Tucker conditions. (Chinese) **89g:90203**

Wu, Shi Quan The restricted stepsize method and its extension. (Chinese) (Not in MR)

— *see also* **Pang, Ying**, (Not in MR)

Xi, Shao Lin Constrained variable scale algorithms. (Chinese) (Not in MR)

Xu, Zeng Kun Saddle-point type optimality criteria for generalized fractional programming. **89f:90160**

— The constrained nonlinear L_1 problem. (Chinese. English summary) **89k:90150**

Xue, Guo Liang Convergence properties of a gradient projection algorithm. (Chinese) (Not in MR)

— An application of Zangwill's theorem. (Chinese) (Not in MR)

— A family of gradient projection algorithms and their convergence properties. (Chinese. English summary) **89d:90207**

Yamamoto, Yoshitsugu A path following algorithm for stationary point problems. (Japanese summary) **89d:90208**

Yorke, James A. *see* **Li, Tien-Yien; et al., 89e:90181**

Yu, Jian A note on Huard's extensions of theorems in nonlinear programming. (Chinese) (Not in MR)

— A generalization of Huard's theorem. (Chinese. English summary) **89j:90234**

Yu, Wen Ci (*with* Chen, Kai Ming) A coordinate direction method with varying step-length. (Chinese) (Not in MR)

Yuan, Ya Xiang Some results in nonsmooth optimization. **89b:90200**

Yue, Min Yi (*with* Han, Ji Ye) A unified approach to feasible direction algorithms for optimization problems with linear constraints. (Chinese) (Not in MR)

Zabotin, Ya. I. (*with* Kashina, O. A.) A relaxation method for solving a problem of the conditional minimization of the maximum function. (Russian) **89g:90204**

Zaikina, G. M. *see* **Belova, I. V., 89g:90183**

Zalmai, G. J. Optimality criteria and duality for a class of minmax programming problems with generalized invexity conditions. **89b:90201**

Zavriev, S. N. *see* **Bereznëv, V. A.; et al., 89g:90184**

Zhadan, V. G. *see* **Evtushenko, Yu. G., 89k:90141**

Zhang, Lian Sheng A unified treatment of global convergence for a class of global extremum algorithms. (Chinese) (Not in MR)

— (*with* Huang, Zhi Jian) On the L_1 exact penalty function with locally Lipschitz functions. **89m:90147**

Zhang, Xiang Sun A survey on deterministic methods for finding global optima. (Chinese) (Not in MR)

Zhang, Xiao Dan Dimension-reducing gradient methods. (Chinese. English summary) **89d:90209**

Zhang, Yin^1 (*with* Tewarson, R. P.) A new quasi-Newton algorithm. **89f:90161**

Zhang, Yu Ming^3 A note on equivalence between Hartley's and Benson's proper efficiency. (Chinese) **89g:90205**

Zhao, Fu An A gradient projection algorithm for linearly constrained nonlinear programming. (Chinese) (Not in MR)

— Two algorithms for linearly constrained optimization. (Chinese. English summary) **89e:90192**

Zhao, Rui An On the implementation of the augmented multiplier method. (Chinese) (Not in MR)

Zheng, Quan Convex optimization via global optimality conditions. (Chinese) (Not in MR)

— Stability of the global minimum value and the set of global minima. (Chinese) (Not in MR)

Zhu, Ci You A study of second-order optimality conditions. (Chinese) (Not in MR)

Žilinskas, Antanas Note on J. Pintér's paper: "Globally convergent methods for n-dimensional multi-extremal optimization" [Optimization **17** (1986), no. 2, 187–202; MR 87f:90108]. **89f:90162**

Zimmermann, Karel Optimization problems with max-separable constraints and additively separable objective function. **89h:90219**

Zlobec, S. Optimality conditions for a class of nonlinear programs. **89b:90202**

Zowe, J. Optimization with nonsmooth data. (German summary) **89c:90098**

— *see also* **Schramm, H., 89h:90213**

Zyabrev, N. B. *see* **Egorushkin, A. A., 89a:90121; 89h:90194** *and* **89h:90195**

Items with secondary classifications in 90C30

Abaffy, J. (*with* Galántai, Aurél) Conjugate direction methods for linear and nonlinear systems of algebraic conditions. **89e:65051**

Abasov, T. M. Duality in problems of the search for saddle points. (Russian. English and Azerbaijani summaries) **89h:90175**

Ahlfeld, David P. (*with* Mulvey, John M.; Dembo, Ron S.; Zenios, Stavros A.) Nonlinear programming on generalized networks. **89b:90218**

Amaya, Jorge A differential equations approach to function minimization. **89b:49048**

Anstreicher, Kurt M. Linear programming and the Newton barrier flow. **89h:90139**

Baĭmurzaeva, Zh. Inverse problems of nonlinear programming. (Russian) **89h:90257**

Batukhtin, V. D. (*with* Korotaeva, L. N.; Maĭboroda, L. A.) On an approach to a search for the roots of a nondifferentiable function. (Russian) **89a:65079**

Bector, C. R. (*with* Bhatt, S. K.) Optimality conditions and duality for quasi-convex programming in real Banach space. **89h:90255**

Belash, K. N. (*with* Tret′yakov, A. A.) Methods for solving degenerate problems. (Russian) **89k:65066**

Bereznëv, V. A. (*with* Karmanov, V. G.; Tret′yakov, A. A.) Choice of parameters in the method of penalty functions. (Russian) **89g:90209**

Bernau, Heinz An exact penalty function method for strictly convex quadratic problems. **89k:90124**

Betrò, Bruno (*with* Schoen, Fabio) Sequential stopping rules for the multistart algorithm in global optimisation. **89d:90152**

Bhatt, S. K. *see* **Bector, C. R., 89h:90255**

Bistrickas, V. Approximate solution of a discrete control optimization problem. **89k:93139**

Boender, C. G. E. (*with* Rinnooy Kan, A. H. G.; Vercellis, C.) Stochastic optimization methods. **89m:90120**

Borisovich, Yu. G. (*with* Gel′man, B. D.; Myshkis, A. D.; Obukhovskiĭ, V. V.) ★ Введение в теорию многозначных отображений. (Russian) [Introduction to the theory of multivalued mappings] **89f:49014**

Boult, T. (*with* Sikorski, K.) Complexity of computing topological degree of Lipschitz functions in n dimensions. **89i:65051**

— (*with* Sikorski, K.) Can we approximate zeros of functions with nonzero topological degree? **89j:58011**

(Burdakov, O. P.) *see* **Dennis, John E., Jr., 89j:65002**

Byrd, Richard H. (*with* Schnabel, Robert B.; Shultz, Gerald A.) A trust region algorithm for nonlinearly constrained optimization. **89f:65069**

Calamai, Paul H. (*with* Moré, Jorge J.) Quasi-Newton updates with bounds. **89f:65059**

Chen, Ze Peng The numerical realization of some simplicial homotopy algorithms. (Chinese. English summary) **89b:65132**

Chu, Moody T. (*with* Li, Tien-Yien; Sauer, Tim) Homotopy method for general λ-matrix problems. **89m:65052**

— On the continuous realization of iterative processes. **89h:65072**

Cohen, Guy Nash equilibria: gradient and decomposition algorithms. **89g:90247**

Cong, Luan (*with* Feng, Guo Chen) Simplicial methods and approximation of several solutions. **89b:65121**

Conn, A. R. (*with* Gould, N. I. M.; Toint, Ph. L.) Testing a class of methods for solving minimization problems with simple bounds on the variables. **89e:65061**

Craven, B. D. Fractional programming—a survey. **89j:90249**

Dembo, Ron S. *see* **Ahlfeld, David P.; et al., 89b:90218**

Dennis, John E., Jr. (*with* Schnabel, Robert B.) ★ Численные методы безусловной оптимизации и решения нелинейных уравнений. (Russian) [Numerical methods for unconstrained optimization and solutions of nonlinear equations] **89j:65002**

Dietze, Siegfried (*with* Schmidt, Jochen W.) Determination of shape preserving spline interpolants with minimal curvature via dual programs. **89g:65013**

Đinh Thế Lục Scalarization of vector optimization problems. **89b:90204**

Dinkel, John J. (*with* Tretter, Marietta J.; Wong, Danny) Interval Newton methods and perturbed problems. **89m:65060**

Eberhard, A. C. Characterization of subgradients. I. **89g:90168**

Egudo, Richard R. Proper efficiency and multiobjective duality in nonlinear programming. **89b:90207**

Erëmin, I. I. Methods of parametrization in the analysis of improper mathematical programming problems. **89b:90208**

Èrlikh, I. I. *see* **Tarasov, S. P.; et al., 89k:90132**

Eufrásio Filho, Heronides Simplicial algorithms and topology. (Portuguese. English summary) **89f:57031**

Evans, M. E. Cluster points and stability. **89j:39004**

(Evtushenko, Yu. G.) *see* **Dennis, John E., Jr., 89j:65002**

Fabían, M. (*with* Preiss, D.) On the Clarke's generalized Jacobian. **89d:58016**

Fang, S. C. (*with* Peterson, Elmor L.; Rajasekera, J. R.) Controlled dual perturbations for posynomial programs. **89f:90115**

Feng, Guo Chen *see* **Cong, Luan, 89b:65121**

Fiacco, Anthony V. (*with* Kyparisis, Jerzy) Computable bounds on parametric solutions of convex problems. **89c:90084**

Fishburn, Peter C. Combinatorial optimization problems for systems of subsets. **89i:05003**

Fletcher, Roger ★ Practical methods of optimization. **89j:65050**

Fontecilla, R. (*with* Steihaug, Trond; Tapia, R. A.) A convergence theory for a class of quasi-Newton methods for constrained optimization. **89b:65155**

— Local convergence of secant methods for nonlinear constrained optimization. **89j:65051**

Forster, W. Computing "all" solutions of systems of polynomial equations by simplicial fixed point algorithms. **89b:65122**
Fourer, Robert A simplex algorithm for piecewise-linear programming. II. Finiteness, feasibility and degeneracy. **89k:90129**
Frommer, A. Comparison of Brown's and Newton's method in the monotone case. **89f:65060**
Galántai, Aurél *see* **Abaffy, J., 89e:65051**
Gavrilets, Yu. N. Using utility functions in economic analysis. (Russian) **89m:90021**
Gel′man, B. D. *see* **Borisovich, Yu. G.; et al., 89f:49014**
Gfrerer, H. Hölder continuity of solutions of perturbed optimization problems under Mangasarian-Fromovitz constraint qualification. **89a:90141**
Glick, J. H. *see* **Pardalos, P. M.; et al., 89d:90158**
Gould, N. I. M. *see* **Conn, A. R.; et al., 89e:65061**
Granot, Frieda *see* **Skorin-Kapov, Jadranka, 89a:90097**
Griewank, Andreas The local convergence of Broyden-like methods on Lipschitzian problems in Hilbert spaces. **89b:65143**
He, Chong Generalized derivatives of a region function and its applications. **89e:26011**
Horváth, M. Notes on a convexity. **89a:52026**
Hudzovič, Peter Quasi-Newton gradient method with analytical determination of the direction and length of step. **89m:65061**
Ichimori, Tetsuo *see* **Maeda, Shigeru, 89h:26017**
Ip, Chi Ming On least-change secant updates in factored form. **89e:65065**
Jefferson, T. R. *see* **Scott, C. H.; et al., 89h:90180**
Jeyakumar, V. On optimality conditions in nonsmooth inequality constrained minimization. **89e:90213**
Jiang, Hua Guang Optimality conditions for a nonsmooth optimization problem. (Chinese) **89b:90166**
Jorjani, S. *see* **Scott, C. H.; et al., 89h:90180**
Kaniovskiĭ, Yu. M. Sufficient conditions for the convergence of the method of successive approximations with discontinuous functions. (Russian) **89b:65151**
Karmanov, V. G. *see* **Bereznёv, V. A.; et al., 89g:90209**
Kashina, O. A. *see* **Zabotin, Ya. I., 89h:65107**
Katkauskaitė, Aldona *see* **Žilinskas, Antanas, 89h:90173**
Khachiyan, L. G. *see* **Tarasov, S. P.; et al., 89k:90132**
Kok, W. C. (*with* Tang, S. M.) Efficiency of a modified globally convergent algorithm for solving systems of nonlinear equations. **89f:65061**
Korotaeva, L. N. *see* **Batukhtin, V. D.; et al., 89a:65079**
Kummer, Bernd Linearly and nonlinearly perturbed optimization problems in finite dimension. **89d:90214**
Kutateladze, S. S. Infinitesimals and the calculus of tangents. (Russian) **89g:03099**
Kyparisis, Jerzy Sensitivity analysis in posynomial geometric programming. **89h:90227**
— *see also* **Fiacco, Anthony V., 89c:90084**
Lasken, R. A. *see* **Zenios, Stavros A., 89h:90247**
Lee, King Tak A horse betting problem. (Malay summary) **89m:90167**
Leont′ev, V. K. Stability of solutions in discrete optimization problems. (Russian) **89e:90198**
Li, Guang Ye The secant/finite difference algorithm for solving sparse nonlinear systems of equations. **89k:65068**
Li, Tien-Yien *see* **Chu, Moody T.; et al., 89m:65052**
Lideikis, Tautvydas *see* **Mockus, Jonas B.; et al., 89g:90162**
Lin, Ying Ju (*with* Zhuang, Jian Nan) An implemented version of a quasi-Newton type method for nonsmooth optimization. (Chinese. English summary) **89m:65064**
Lü, Wei Ji Weak convergence of two-stage algorithms on families of point-to-set maps. (Chinese. English summary) **89b:54025**
Madsen, Kaj General algorithms for discrete nonlinear parameter estimation. **89f:65070**
Maeda, Shigeru (*with* Ichimori, Tetsuo) Unimodality of certain functions of several variables. **89h:26017**
Maĭboroda, L. A. *see* **Batukhtin, V. D.; et al., 89a:65079**
Marin, Alexis Géométrie des polynômes: Côut global moyen de la méthode de Newton (d'après M. Shub et S. Smale). [Geometry of polynomials: average global cost of Newton's method (following M. Shub and S. Smale)] **89g:58030**
Mawengkang, H. (*with* Murtagh, B. A.) Solving nonlinear integer programs with large-scale optimization software. **89d:90147**
Mazurov, Vl. D. Problems of duality in discriminant analysis. (Russian) **89h:90177**
Mei, Jia Liu Generalized convex sets. (Chinese. English summary) **89j:52003**
Mockus, Jonas B. (*with* Žukauskaitė, Lolita; Lideikis, Tautvydas) A Bayesian approach to local optimization. (Russian. English and Lithuanian summaries) **89g:90162**
— (*with* Mockus, Linas) A Bayesian approach to global optimization, and applications. (Russian. English and Lithuanian summaries) **89h:90169**
Mockus, Linas *see* **Mockus, Jonas B., 89h:90169**
Mond, B. (*with* Smart, I.) Duality and sufficiency in control problems with invexity. **89m:49031**
Moré, Jorge J. Numerical solution of bound constrained problems. **89f:65071**
— *see also* **Calamai, Paul H., 89f:65059**
Morgan, Alexander (*with* Sommese, Andrew John) Computing all solutions to polynomial systems using homotopy continuation. **89b:65126**
Mukherjee, Rathindra Nath[1] *see* **Yadav, Shri Ram, 89m:26022**
Mulvey, John M. *see* **Ahlfeld, David P.; et al., 89b:90218** *and* **Zenios, Stavros A., 89k:90169**
Murtagh, B. A. *see* **Mawengkang, H., 89d:90147**
Myers, Danny C. *see* **Sherali, H. D., 89d:90148**
Myshkis, A. D. *see* **Borisovich, Yu. G.; et al., 89f:49014**
Obukhovskiĭ, V. V. *see* **Borisovich, Yu. G.; et al., 89f:49014**
Oeder, Wolfgang Ein Algorithmus zur Lösung eines speziellen Zwei-Ebenen-Optimierungsproblems. [An algorithm for the solution of a special bilevel programming problem] **89f:90175**
Ojika, Takeo A numerical method for branch points of a system of nonlinear algebraic equations. **89j:65043**
Pang, Jong-Shi A posteriori error bounds for the linearly-constrained variational inequality problem. **89d:90225**
Pardalos, P. M. (*with* Glick, J. H.; Rosen, J. B.) Global minimization of indefinite quadratic problems. (German summary) **89d:90158**
Penot, Jean-Paul Local minimality versus spongious minimality. **89k:90181**
Peterson, Elmor L. *see* **Fang, S. C.; et al., 89f:90115**
Phan Quốc Khánh An open mapping theorem for families of multifunctions. **89d:58018**
Polyak, R. Smooth optimization methods in discrete minimax problems. **89h:90258**
Preiss, D. *see* **Fabian, M., 89d:58016**
Pshenichnyĭ, B. N. (*with* Sosnovskiĭ, A. A.) A linearization method for solving a multicriterial optimization problem. (Russian. English summary) **89i:90082**
Pu, Ding Guo (*with* Yu, Wen Ci) On the convergence of the DFP algorithm. (Chinese. English summary) **89m:65065**
Rajasekera, J. R. *see* **Fang, S. C.; et al., 89f:90115**
Rapcsák, T. On geodesically convex functions. **89e:26030**
Ratschek, Helmut (*with* Rokne, J. G.) Efficiency of a global optimization algorithm. **89g:65080**
Ravindran, G. Completely mixed games Jacobian matrix and univalence. **89e:90233**
Rheinboldt, Werner C. On a theorem of S. Smale about Newton's method for analytic mappings. **89h:65079**
Richter, Claus ★ Optimierungsverfahren und BASIC-Programme. (German) [Optimization procedures and BASIC programs] **89g:90138**
Rinnooy Kan, A. H. G. *see* **Boender, C. G. E.; et al., 89m:90120**
Rokne, J. G. *see* **Ratschek, Helmut, 89g:65080**
Rosen, J. B. *see* **Pardalos, P. M.; et al., 89d:90158**
Rosenblueth, Javier F. Conditions for generic normality in optimal control. **89g:49041**
Saari, Donald G. Some informational requirements for convergence. **89b:65119**
Sakaguchi, Minoru A two-sided resource allocation game in search for a stationary object. **89c:90111**
Sauer, Tim *see* **Chu, Moody T.; et al., 89m:65052**
Schmidt, Jochen W. Bestimmung minimal gekrümmter Splines mit Hilfe dualer Aufgaben. [Determination of minimally curved splines with the help of dual problems] **89a:65020**
— *see also* **Dietze, Siegfried, 89g:65013**
Schnabel, Robert B. *see* **Byrd, Richard H.; et al., 89f:65069** *and* **Dennis, John E., Jr., 89j:65002**
Schoen, Fabio *see* **Betrò, Bruno, 89d:90152**
Scott, C. H. (*with* Jefferson, T. R.; Jorjani, S.) Duality for programs involving nonseparable objective functions. **89h:90180**
Sherali, H. D. (*with* Myers, Danny C.) The design of branch and bound algorithms for a class of nonlinear integer programs. **89d:90148**
Shi, Le Yuan A continuous minimization method for solving nonlinear equations. (Chinese. English summary) **89h:65084**
Shub, Michael (*with* Smale, Steve) On the existence of generally convergent algorithms. **89d:65054**
— *see also* **Marin, Alexis, 89g:58030**
Shultz, Gerald A. *see* **Byrd, Richard H.; et al., 89f:65069**
Sikorski, K. (*with* Woźniakowski, Henryk) Complexity of fixed points. I. **89a:65100**
— *see also* **Boult, T., 89i:65051** *and* **89j:58011**
Simons, Stephen Abstract Kuhn-Tucker theorems. **89g:90175**
Singer, Ivan On duality and stability of parametrized optimization problems and related topics. **89c:90104**
Singh, Chanchal Duality theory in multi-objective differentiable programming. **89j:90242**
Skorin-Kapov, Jadranka (*with* Granot, Frieda) Nonlinear integer programming: sensitivity analysis for branch and bound. **89a:90097**
Smale, Steve Algorithms for solving equations. **89d:65060**
— *see also* **Shub, Michael, 89d:65054** *and* **Marin, Alexis, 89g:58030**
Smart, I. *see* **Mond, B., 89m:49031**
Sniedovich, Moshe Fractional programming revisited. **89h:90236**
Sokolov, N. A. Complexity of optimization on independent systems. **89g:90150**
Sommese, Andrew John *see* **Morgan, Alexander, 89b:65126**
Sosnovskiĭ, A. A. *see* **Pshenichnyĭ, B. N., 89i:90082**
Spedicato, E. (*with* Vespucci, M. T.) Numerical experiments with variations of the Gauss-Newton algorithm for nonlinear least squares. **89d:65016**
Steihaug, Trond *see* **Fontecilla, R.; et al., 89b:65155**
Stillinger, F. H. (*with* Weber, T. A.) Nonlinear optimization simplified by hypersurface deformation. **89h:90190**
Stoer, J. (*with* Tapia, R. A.) On the characterization of q-superlinear convergence of quasi-Newton methods for constrained optimization. **89g:65079**
Suárez Ojeda, Eduardo Topological properties of Q-convex sets. (Spanish. English summary) **89e:52006**
Tang, S. M. *see* **Kok, W. C., 89f:65061**
Tapia, R. A. *see* **Fontecilla, R.; et al., 89b:65155** *and* **Stoer, J., 89g:65079**
Tarasov, S. P. (*with* Khachiyan, L. G.; Èrlikh, I. I.) The method of inscribed ellipsoids. **89k:90132**
Toint, Ph. L. *see* **Conn, A. R.; et al., 89e:65061**
Tretter, Marietta J. *see* **Dinkel, John J.; et al., 89m:65060**
Tret′yakov, A. A. *see* **Bereznёv, V. A.; et al., 89g:90209** *and* **Belash, K. N., 89k:65066**
Tsoĭ, È. V. *see* **Yudin, D. B., 89g:90180**
Ushakov, I. A. Solving an optimal redundancy problem by means of generalized generating functions. (German and Russian summaries) **89h:90116**
Vatolin, A. A. Correction of inconsistent linear inequality system with regard to restrictions on parameter variation. **89g:90147**
Veeramani, P. A note on some results in fixed point theory, best approximation and optimization. **89e:47085**
Vercellis, C. *see* **Boender, C. G. E.; et al., 89m:90120**
Veroy, Boris S. An optimal algorithm for search of extrema of a bimodal function. **89h:65087**
Vespucci, M. T. *see* **Spedicato, E., 89d:65016**
Vlassenbroeck, Jacques A Chebyshev polynomial method for optimal control with state constraints. **89f:93013**
Wang, Xiao Dong[1] An algorithm for nonlinear 0-1 programming and its application in structural optimization. (Chinese. English summary) **89f:90092**

Ward, Doug Convex subcones of the contingent cone in nonsmooth calculus and optimization. **89d:58017**
Weber, T. A. *see* **Stillinger, F. H., 89h:90190**
Wong, Danny *see* **Dinkel, John J.; et al., 89m:65060**
Woźniakowski, Henryk *see* **Sikorski, K., 89a:65100**
Wright, Stephen Joseph Convergence of projected Hessian approximations in quasi-Newton methods for the nonlinear programming problem. **89h:65105**
Yadav, Shri Ram (*with* Mukherjee, Rathindra Nath^1) Some applications of arcwise connected functions for minimax inequalities and equalities. **89m:26022**
Yamamoto, Yoshitsugu Orientability of pseudomanifold and generalizations of Sperner's lemma. (Japanese summary) **89g:57028**
Yang, Zhong Hua An acceleration method in the homotopy Newton's continuation for nonlinear singular problems. **89h:65085**
Yu, Wen Ci *see* **Pu, Ding Guo, 89m:65065**
Yudin, D. B. (*with* Tsoĭ, È. V.) Models of generalized mathematical programming with arbitrary binary relations. **89g:90180**
Zabotin, Ya. I. (*with* Kashina, O. A.) A general method for determining a conditional minimax. **89h:65107**
Zălinescu, C. Solvability results for sublinear functions and operators. (German summary) **89a:90115**
Zenios, Stavros A. (*with* Lasken, R. A.) Nonlinear network optimization on a massively parallel connection machine. **89h:90247**
— (*with* Mulvey, John M.) Vectorization and multitasking of nonlinear network programming algorithms. **89k:90169**
— *see also* **Ahlfeld, David P.; et al., 89b:90218**
Zhang, Shu Zhong A new Powell-type algorithm and its analysis. (Chinese. English summary) **89k:65077**
Zhu, Dao Li Optimization of large scale systems. (Chinese) (Not in MR)
Zhuang, Jian Nan *see* **Lin, Ying Ju, 89m:65064**
Žilinskas, Antanas ★ Глобальная оптимизация. (Russian) [Global optimization] **89e:65064**
— (*with* Katkauskaitė, Aldona) Statistical models for global optimization in the presence of noise. (Russian. English and Lithuanian summaries) **89h:90173**
Žukauskaitė, Lolita *see* **Mockus, Jonas B.; et al., 89g:90162**

90C31 Sensitivity, parametric programming, multi-objective programming

Aliakbarov, S. M. Stability of the solutions of a multi-extremal problem. (Russian. Tajiki summary) **89d:90210**
Antunes, C. H. *see* **Clímaco, J. C. N., 89h:90220**
Astaf'ev, N. N. Dual regularization of a problem of semi-infinite linear programming (application to problems of convex programming). (Russian) **89g:90206**
Azimov, A. Ya. Duality in discrete multicriterial dynamic problems. (Russian) **89b:90203**
— Duality in multicriterial optimal control problems. (Russian. English summary) **89g:90207**
Back, Kerry Convergence of Lagrange multipliers and dual variables for convex optimization problems. **89d:90211**
Bard, Jonathan F. Convex two-level optimization. **89d:90212**
Belousov, E. G. Über Lipschitzstetigkeit und Richtungsdifferenzierbarkeit der Extremalwertfunktion. [On Lipschitz continuity and directional differentiability of extremal value functions] **89g:90208**
Bereznëv, V. A. (*with* Karmanov, V. G.; Tret'yakov, A. A.) Choice of parameters in the method of penalty functions. (Russian) **89g:90209**
Bezdek, J. C. (*with* Hathaway, R. J.; Howard, R. E.; Wilson, Celia A.; Windham, M. P.) Local convergence analysis of a grouped variable version of coordinate descent. **89f:90163**
Bogetoft, Peter (*with* Hallefjord, Åsa; Kok, Matthijs) On the convergence of reference point methods in multiobjective programming. **89i:90078**
Bordetskiĭ, A. B. (*with* Khavronina, M. A.) The use of automatic classification algorithms for adjusting parameters of an interactive procedure for finding extrema. (Not in MR)
Bu, Qi Yue *see* **Shen, Hong Ru,** (Not in MR)
Butko, S. N. (*with* Petrovskiĭ, A. M.; Rodionov, V. V.) Interactive multicriterial choice of variants in problems with weak constraints. **89a:90140**
Chen, Guang Ya A vector variational inequality and its application to multi-objective optimization. (Chinese) (Not in MR)
Cheng, Wei Min *see* **Song, An Lan, 89j:90243**
Cheng, Ying A solution method for fuzzy multigoal programming with nested priorities. (Chinese. English summary) (Not in MR)
Chew, Kim Lin *see* **Tung, Chi Tung, 89j:90245**
Clímaco, J. C. N. (*with* Antunes, C. H.) Erratum: "TRIMAP—an interactive tricriteria linear programming package" [Found. Control Engrg. **12** (1987), no. 3, 101–119; MR 88m:90133]. **89h:90220**
Craven, B. D. On sensitivity analysis for multicriteria optimization. **89g:90210**
Dauer, Jerald P. Numerically analyzing linear multicriteria optimization problems. (*see* **89f:90171**)
Đinh Thế Lục On scalarizing method in vector optimization. **89e:90193**
— Scalarization of vector optimization problems. **89b:90204**
Dommisch, Gerlinde On the existence of Lipschitz-continuous and differentiable selections for multifunctions. **89h:90221**
Dong, Ming Chui Multi-objective tradeoff and weight selection. (Chinese. English summary) (Not in MR)
Dumitru, Vincenţiu (*with* Luban, Florica) On the monotone functionals in multicriteria optimization. (French and Russian summaries) **89b:90205**
Durier, R. Meilleure approximation en norme vectorielle et théorie de la localisation. (English summary) [Best approximation in a vectorial norm and localization theory] **89b:90206**
— Weighting factor results in vector optimization. **89i:90079**
Egudo, Richard R. Proper efficiency and multiobjective duality in nonlinear programming. **89b:90207**
— (*with* Hanson, Morgan A.) Multiobjective duality with invexity. **89e:90194**
— Multiobjective fractional duality. **89g:90211**
Erëmin, I. I. Methods of parametrization in the analysis of improper mathematical programming problems. **89b:90208**
Ermakov, S. M. (*with* Zhiglyavskiĭ, A. A.; Kondratovich, M. V.) Comparison of certain procedures for random search for a global extremum. (Russian) **89m:90148**
Eschenauer, Hans A. Multicriteria optimization techniques for highly accurate focusing systems. (*see* **89f:90171**)
Ester, Jochen ★ Systemanalyse und mehrkriterielle Entscheidung. (German) [Systems analysis and multicriterial decision] **89f:90164**
Evtushenko, Yu. G. (*with* Potapov, M. A.) Numerical methods for solving multicriteria problems. (Russian) **89e:90195**
— (*with* Mazourik, V.; Rat'kin, V.) Multicriteria optimization in the DISO system. (*see* **89f:00029**)
Fiacco, Anthony V. *see* **Kyparisis, Jerzy, 89f:90168**
Fiala, Petr (*with* Kurtevová, Sylva) Multicriterial outranking method with ordinal information on criteria and variants. (Czech. English summary) (Not in MR)
Fischer, Thomas Continuous selections for semi-infinite optimization. **89c:90099**
Gerth, Christiane (*with* Pöhler, Karin) Dualität und algorithmische Anwendung beim vektoriellen Standortproblem. (English summary) [Duality and algorithmic application for the vector-valued location problem] **89g:90212**
— (*with* Göpfert, A.; Pöhler, Karin) Vektorielles Standortproblem und Dualität. (English summary) [Vectorial location problem and duality] **89k:90151**
Gfrerer, H. Hölder continuity of solutions of perturbed optimization problems under Mangasarian-Fromovitz constraint qualification. **89a:90141**
Giesy, Daniel P. *see* **Schy, Albert A., (89f:90171)**
González Martín, C. ★ Métodos interactivos en programación multiobjetivo. (Spanish) [Interactive methods in multiobjective programming] **89d:90213**
Göpfert, A. Multicriterial duality, examples and advances. **89e:90196**
— *see also* **Gerth, Christiane; et al., 89k:90151**
Gordeev, È. N. (*with* Leont'ev, V. K.) Use of an investigation of stability for the solution of choice problems. (Russian) **89j:90235**
Grippo, L. (*with* Lampariello, F.; Lucidi, S.) Global convergence and stabilization of unconstrained minimization methods without derivatives. **89f:90165**
Guan, Jia Yu The stability of proper efficient solutions in generalized multicriteria mathematical programming. (Chinese. English summary) **89h:90222**
Guddat, Jürgen Parametric optimization: pivoting and predictor-corrector continuation, a survey. **89a:90142**
— (*with* Jongen, H. Th.) Structural stability in nonlinear optimization. **89h:90223**
Gulati, T. R. (*with* Islam, M. A.) Proper efficiency in a linear fractional vector maximum problem with generalized convex constraints. **89k:90152**
Haimes, Yacov Y. *see* **Li, Duan, 89c:90101** *and* **89g:90216**
Hallefjord, Åsa *see* **Bogetoft, Peter; et al., 89i:90078**
Hanson, Morgan A. *see* **Egudo, Richard R., 89e:90194**
Hathaway, R. J. *see* **Bezdek, J. C.; et al., 89f:90163**
He, Lun Zhi An improvement in the principle of optimal resource allocation. (Chinese. English summary) **89j:90236**
Henig, M. I. Characterizing the nondominated set by separable functions. **89m:90149**
Hong, Zhi Shen (*with* Sheng, Shou Lin) A new algorithm for on-line security constrained economic dispatch. (Chinese. English summary) (Not in MR)
Howard, R. E. *see* **Bezdek, J. C.; et al., 89f:90163**
Hsia, W.-S. (*with* Lee, Tan Yu) Lagrangian function and duality theory in multiobjective programming with set functions. **89g:90213**
Hu, Yu Da k-preference solutions with reference criteria for multiple objective programming. (Chinese) (Not in MR)
Islam, M. A. *see* **Gulati, T. R., 89k:90152**
Jackson, Richard H. F. (*with* McCormick, Garth P.) Second-order sensitivity analysis in factorable programming: theory and applications. **89g:90214**
Jahn, Johannes Parametric approximation problems arising in vector optimization. **89c:90100**
— A generalization of a theorem of Arrow, Barankin, and Blackwell. **89h:90224**
Jongen, H. Th. *see* **Guddat, Jürgen, 89h:90223**
Kachalovskaya, N. E. (*with* Troshin, V. G.) Application of the method of continuation with respect to the parameter in multi-extremal optimization problems. (Russian) **89m:90150**
Kaliszewski, Ignacy A characterization of properly efficient solutions by an augmented Tchebycheff norm. (Russian summary) **89b:90209**
— Norm scalarization and proper efficiency in vector optimization. **89a:90143**
Karmanov, V. G. *see* **Bereznëv, V. A.; et al., 89g:90209**
Keiding, Hans *see* **Volkovich, V. L., 89j:90246**
Khakimov, M. Kh. (*with* Yuldashev, U. Yu.) Models for problems in the design of a vertical layout. (Russian) (*see* **89c:00022**)
Khavronina, M. A. *see* **Bordetskiĭ, A. B.,** (Not in MR)
Klatte, Diethard A note on quantitative stability results in nonlinear optimization. **89g:90215**
— Zur Lipschitz-Stetigkeit bei parametrischen konvexen Optimierungsproblemen. (English summary) [On Lipschitz continuity in parametric convex optimization problems] **89h:90225**
Kok, Matthijs *see* **Bogetoft, Peter; et al., 89i:90078**
Kolenov, G. V. *see* **Mikhalevich, V. S.; et al., 89j:90237**
Komkov, N. I. (*with* Pleshchinskiĭ, A. S.) The decomposition method of allocating resources in a multiobjective program. **89i:90080**
Kondo, Eiji *see* **Sunaga, Teruo; et al., 89j:90244**
Kondratovich, M. V. *see* **Ermakov, S. M.; et al., 89m:90148**
Kotarski, Wiesław Characterization of Pareto optimal points in problems with multi-equality constraints. **89m:90151**
Kozeratskaya, L. N. (*with* Lebedeva, T. T.; Sergienko, T. I.) Problems of the parametric analysis and investigation of the stability of multicriterial problems of integer linear programming. **89h:90226**
Krysov, Yu. A. Simultaneous aggregation in some classes of parametric optimization problems in a Banach space. (Russian. English summary) **89e:90197**

Kummer, Bernd Linearly and nonlinearly perturbed optimization problems in finite dimension. **89d:90214**
— Ein Zugang zur quantitativen Stabilität in der nichtlinearen Optimierung: Variation von Kakutani-Abbildungen. [An approach to quantitative stability in nonlinear optimization: variation of Kakutani mappings] **89f:90166**
Kurtevová, Sylva *see* **Fiala, Petr**, (Not in MR)
Kyparisis, Jerzy (*with* Fiacco, Anthony V.) Generalized convexity and concavity of the optimal value function in nonlinear programming. **89f:90168**
— Perturbed solutions of variational inequality problems over polyhedral sets. **89f:90167**
— Sensitivity analysis in posynomial geometric programming. **89h:90227**
Lampariello, F. *see* **Grippo, L.; et al., 89f:90165**
Lebedeva, T. T. *see* **Kozeratskaya, L. N.; et al., 89h:90226**
Lee, Tan Yu *see* **Hsia, W.-S., 89g:90213**
Leont′ev, V. K. Stability of solutions in discrete optimization problems. (Russian) **89e:90198**
— *see also* **Gordeev, È. N., 89j:90235**
Levin, Genadiĭ Mironovich *see* **Verina, L. F.; et al., 89k:90155**
Li, Duan (*with* Haimes, Yacov Y.) The envelope approach for multiobjective optimization problems. **89c:90101**
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Li, Shi Zheng Necessary and sufficient conditions for convex programming in ordered vector spaces to satisfy the saddle point criterion. (Chinese. English summary) **89a:90144**
Lin, Cuo Yun The Kuhn-Tucker saddle point theorem for multi-objective functions. (Chinese) (Not in MR)
— Self-duality of multi-objective mathematical programming with closed convex cone constraints. (Chinese) (Not in MR)
Luban, Florica *see* **Dumitru, Vincenţiu, 89b:90205**
Lucidi, S. *see* **Grippo, L.; et al., 89f:90165**
Maros, István A multicriteria decision problem within the simplex algorithm. (*see* **89g:90136**)
Martínez-Legaz, Juan-Enrique Lexicographical order and duality in multiobjective programming. **89a:90145**
Maruşciac, I. Simplex-like method for the Pareto minimum solutions of an inconsistent system. (Romanian summary) **89d:90215**
Mazeed, Mohammed Abdul *see* **Sunaga, Teruo; et al., 89j:90244**
Mazourik, V. *see* **Evtushenko, Yu. G.; et al.**, (**89f:00029**)
McCormick, Garth P. *see* **Jackson, Richard H. F., 89g:90214**
Mei, Jia Liu (*with* Zhou, Hui Jin) Linearizing methods for multiobjective programming. (Chinese. English summary) **89i:90081**
Mekhtaliev, A. I. A multipurpose optimization problem. (Russian) **89c:90102**
Men′shikova, O. R. (*with* Podinovskiĭ, V. V.) Construction of the preference relation and the core in multicriterial problems with inhomogeneous criteria that are ordered with respect to importance. (Russian) **89g:90217**
Michalowski, Wojtek Use of the displaced worst compromise in interactive multiobjective programming. **89h:90228**
Mikhalevich, V. S. (*with* Volkovich, V. L.; Kolenov, G. V.) An algorithm for matching solutions in a distributed system of interrelated problems with linear models. **89j:90237**
Mirzoakhmedov, F. (*with* Petrenko, V. L.; Nguen, V. Kh.; Serpa, Kh.) An approach to the solution of a problem of multicriteriality in an adaptive planning system. (Russian) (Not in MR)
Molodtsov, D. A. ★ Устойчивость принципов оптимальности. (Russian) [Stability of optimality principles] **89d:90216**
Mond, B. *see* **Weir, T., 89k:90156**
Mote, J. (*with* Olson, D. L.; Venkataramanan, M. A.) A comparative multiobjective programming study. (Not in MR)
Nango, Yuji *see* **Sakawa, Masatoshi, 89h:90229**
Ng, W. Y. Application of optimization-based methods in control system design. (*see* **89f:00029**)
Nguen, V. Kh. *see* **Mirzoakhmedov, F.; et al.**, (Not in MR)
Nuong, T. H. *see* **Phan Quốc Khánh, 89j:90239**
Ogryczak, W. Symmetric duality theory for linear goal programming. **89j:90238**
Olson, D. L. Opportunities and limitations of AHP in multiobjective programming. (*see* **89d:00007**)
— *see also* **Mote, J.; et al.**, (Not in MR)
Pavlov, V. V. *see* **Voronin, A. N., 89m:90154**
Perepelitsa, V. A. (*with* Sergienko, I. V.) Investigation of a class of integer multicriterial problems. (Russian) **89c:90103**
— *see also* **Sergienko, I. V., 89d:90218**
Petrenko, V. L. *see* **Mirzoakhmedov, F.; et al.**, (Not in MR)
Petrovskiĭ, A. M. *see* **Butko, S. N.; et al., 89a:90140**
Phạm Hữu Sách Vector optimization of convex multiple-valued systems. **89m:90152**
Phan Quốc Khánh (*with* Nuong, T. H.) On necessary optimality conditions in vector optimization problems. **89j:90239**
Pleshchinskiĭ, A. S. *see* **Komkov, N. I., 89i:90080**
Podinovskiĭ, V. V. Estimation of the efficiency of decision rules in multicriterial problems. **89j:90240**
— *see also* **Men′shikova, O. R., 89g:90217**
Põhler, Karin *see* **Gerth, Christiane, 89g:90212** *and* **89k:90151**
Poolla, K. R. *see* **Ting, T. C. T., 89h:90232**
Poore, A. B. (*with* Tiahrt, C. A.) Bifurcation problems in nonlinear parametric programming. **89a:90146**
Postolică, Vasile Some existence results concerning the efficiency points in locally convex spaces. **89b:90210**
Potapov, M. A. *see* **Evtushenko, Yu. G., 89e:90195**
Pshenichnyĭ, B. N. (*with* Sosnovskiĭ, A. A.) A linearization method for solving a multicriterial optimization problem. (Russian. English summary) **89i:90082**
Rat′kin, V. *see* **Evtushenko, Yu. G.; et al.**, (**89f:00029**)
Reeves, Gary R. (*with* Reid, Randall C.) Minimum values over the efficient set in multiple objective decision making. **89e:90199**
Reid, Randall C. *see* **Reeves, Gary R., 89e:90199**
Rodionov, V. V. *see* **Butko, S. N.; et al., 89a:90140**
van Rooyen, M. (*with* Sears, M.; Zlobec, S.) Constraint qualifications in input optimisation. **89j:90241**
Sakawa, Masatoshi (*with* Nango, Yuji) Interactive decision-making for multiobjective nonlinear programming problems using fuzzy satisficing regions. **89h:90229**
— (*with* Yano, Hitoshi) An interactive fuzzy satisficing method for multiobjective nonlinear programming problems with fuzzy parameters. **89i:90083**
— (*with* Yano, Hitoshi) An interactive fuzzy satisficing method for multiobjective linear fractional programming problems. **89k:90153**
— *see also* **Yano, Hitoshi, 89i:90086**
(Scherer, W. T.) *see* **White, Douglas John, 89e:90201**
Schy, Albert A. (*with* Giesy, Daniel P.) Multicriteria optimization methods for design of aircraft control systems. (*see* **89f:90171**)
Sears, M. *see* **van Rooyen, M.; et al., 89j:90241**
Seeger, Alberto Second order directional derivatives in parametric optimization problems. **89d:90217**
Seeländer, Jörg Über zwei Dualitätskonzepte in der diskreten Vektoroptimierung. [On two duality concepts in discrete vector optimization] **89g:90218**
Sergienko, I. V. (*with* Perepelitsa, V. A.) On the problem of finding sets of alternatives in discrete multicriteria problems. (Russian. English summary) **89d:90218**
— *see also* **Perepelitsa, V. A., 89c:90103**
Sergienko, T. I. *see* **Kozeratskaya, L. N.; et al., 89h:90226**
Serpa, Kh. *see* **Mirzoakhmedov, F.; et al.**, (Not in MR)
Shapiro, Alexander Perturbation theory of nonlinear programs when the set of optimal solutions is not a singleton. **89g:90219**
Shen, Hong Ru (*with* Bu, Qi Yue) Some optimality conditions for vector optimization problems. (Chinese) (Not in MR)
Sheng, Shou Lin *see* **Hong, Zhi Shen**, (Not in MR)
Sholomov, L. A. (*with* Yudin, D. B.) The complexity of multistep generalized mathematical programming schemas. **89m:90153**
Shpak, A. L. A sequential global minimization algorithm. (Russian) **89d:90219**
Silverman, Joe (*with* Steuer, Ralph E.; Whisman, Alan W.) A multiperiod, multiple criteria optimization system for manpower planning. (Not in MR)
Singer, Ivan On duality and stability of parametrized optimization problems and related topics. **89c:90104**
Singh, Chanchal Optimality conditions in multiobjective differentiable programming. **89h:90230a**
— Duality theory in multi-objective differentiable programming. **89j:90242**
— Errata corrige: "Optimality conditions in multiobjective differentiable programming". **89h:90230b**
Sniedovich, Moshe c-programming: a nonlinear parametric optimization method. **89k:90154**
Song, An Lan (*with* Cheng, Wei Min) A method for multihuman and multi-criteria decision making. **89j:90243**
Sorokin, I. M. Methods for solving nonconvex problems. (Russian) **89e:90200**
Sorokin, M. N. Multidimensional multiparameter recruitment problem. (Russian) **89d:90220**
Sorokin, N. V. A modified Steuer procedure for solving a problem of linear multicriteria programming. (Russian) **89d:90221**
Sosnovskiĭ, A. A. *see* **Pshenichnyĭ, B. N., 89i:90082**
Stadler, Wolfram Fundamentals of multicriteria optimization. (*see* **89f:90171**)
— *see also* **Multicriteria optimization in engineering and in the sciences, 89f:90171**
Sterna-Karwat, A. Continuous dependence of solutions on a parameter in a scalarization method. **89a:90147**
Steuer, Ralph E. *see* **Silverman, Joe; et al.**, (Not in MR)
Sunaga, Teruo (*with* Mazeed, Mohammed Abdul; Kondo, Eiji) A penalty function formulation for interactive multiobjective programming problems. **89j:90244**
Tammer, Klaus The application of parametric optimization and imbedding to the foundation and realization of a generalized primal decomposition approach. **89a:90148**
Tanaev, V. S. *see* **Verina, L. F.; et al., 89k:90155**
Tanino, Tetsuzo On supremum of a set in a multidimensional space. **89h:90231**
— Sensitivity analysis in multiobjective optimization. **89i:90084**
Tiahrt, C. A. *see* **Poore, A. B., 89a:90146**
Ting, T. C. T. (*with* Poolla, K. R.) Upper bounds and approximate solutions for multidisk problems. **89h:90232**
Tret′yakov, A. A. *see* **Bereznëv, V. A.; et al., 89g:90209**
Troshin, V. G. *see* **Kachalovskaya, N. E., 89m:90150**
Tung, Chi Tung (*with* Chew, Kim Lin) A bicriterion Pareto-optimal path algorithm. **89j:90245**
Ushakov, I. A. Solution of multicriterial discrete optimization problems using a universal generating function. **89d:90222**
Vályi, István Approximate saddle-point theorems in vector optimization. **89b:90211**
Ven, V. L. Joint aggregation in optimization problems with variable parameters. (Russian) **89h:90233**
Venkataramanan, M. A. *see* **Mote, J.; et al.**, (Not in MR)
Verina, L. F. (*with* Levin, Genadiĭ Mironovich; Tanaev, V. S.) Parametric decomposition of extremal problems: a general approach and some applications. **89k:90155**
Vetrov, A. N. Allowance of uncertainty in multicriterial problems of linear programming with interval-defined initial information. (Russian) (*see* **89h:00001**)
Volkovich, V. L. (*with* Keiding, Hans) Multicriterial optimization in the coalitional unification of criteria. (Russian. English summary) **89j:90246**
— *see also* **Mikhalevich, V. S.; et al., 89j:90237**
Voronin, A. N. (*with* Pavlov, V. V.) Solution of multicriterial variational problems under indeterminacy conditions. **89m:90154**
Weidner, Petra On interdependencies between objective functions and dominance sets in vector optimization. **89i:90085**
— The influence of neglecting feasible points and of varying preferences on the efficient

point set. **89f:90169**

Weir, T. (*with* Mond, B.) Pre-invex functions in multiple objective optimization. **89k:90156**

Whisman, Alan W. *see* **Silverman, Joe; et al.**, (Not in MR)

White, Douglas John Weighting factor extensions for finite multiple objective vector minimization problems. **89e:90201**

Wilson, Celia A. *see* **Bezdek, J. C.; et al., 89f:90163**

Windham, M. P. *see* **Bezdek, J. C.; et al., 89f:90163**

Xu, Li D. A fuzzy multiobjective programming algorithm in decision support systems. **89e:90202**

Yang, Ya Guang Fuzzy method for solving gray parameter linear programming. **89h:90234**

Yano, Hitoshi (*with* Sakawa, Masatoshi) Trade-off rates in the weighted Tchebycheff norm method. **89i:90086**

— *see also* **Sakawa, Masatoshi, 89i:90083** *and* **89k:90153**

Ying, Mei Qian Scalarization and group decision making. (Chinese summary) **89j:90247**

Yudin, D. B. *see* **Sholomov, L. A., 89m:90153**

Yuldashev, U. Yu. *see* **Khakimov, M. Kh.**, (**89c:00022**)

Zhadan, V. G. Penalty function methods in conditional multicriterial optimization problems. (Russian) **89e:90203**

— Conditions for optimality in generalized mathematical programming problems. (Russian) **89f:90170**

Zharkynbaev, S. A multicriteria problem for differential-difference systems (Pareto optimum). (Russian) (*see* **89a:00016**)

Zhiglyavskiĭ, A. A. *see* **Ermakov, S. M.; et al., 89m:90148**

Zhou, Hui Jin *see* **Mei, Jia Liu, 89i:90081**

Zlobec, S. Input optimization. III. Optimal realizations of multiobjective models. **89j:90248**

— An index condition in input optimization. **89m:90155**

— *see also* **van Rooyen, M.; et al., 89j:90241**

Items listed otherwise than by author

Multicriteria optimization in engineering and in the sciences ★ Multicriteria optimization in engineering and in the sciences. **89f:90171**

Items with secondary classifications in 90C31

Adali, S. (*with* Sadek, Ibrahim S.; Sloss, J. M.; Bruch, J. C., Jr.) Distributed control of layered orthotropic plates with damping. **89d:49001**

Agayan, G. M. The linear programming problem with element-wise specification of errors in the initial data. (Russian) **89b:90119**

Anstreicher, Kurt M. Linear programming and the Newton barrier flow. **89h:90139**

Baker, John A. *see* **Radó, F., 89i:39014**

Bank, Bernd (*with* Belousov, E. G.; Mandel, Reinhard; Cheremnykh, Yu. N.; Shironin, V. M.) ★ Математическая оптимизация: вопросы разрешимости и устойчивости. (Russian) [Mathematical optimization: questions of solvability and stability] **89c:90069**

— (*with* Mandel, Reinhard) ★ Parametric integer optimization. **89m:90119**

Barron, F. Hutton (*with* Schmidt, Charles P.) Entropy-based selection with multiple objectives. **89k:90020**

Belousov, E. G. *see* **Bank, Bernd; et al., 89c:90069**

Berka, Milan Stochastic methods for global optimization of dynamical systems. (Czech. English and Russian summaries) **89a:90099**

Bronisz, Piotr (*with* Kruś, Lech) Application of generalized Raiffa solution to multicriteria bargaining support. (*see* **89f:00029**)

— (*with* Kruś, Lech) Interactive procedures for multicriteria decision support in bargaining problem. **89j:90311**

Bruch, J. C., Jr. *see* **Adali, S.; et al., 89d:49001**

Bulavskiĭ, V. A. Feedback in optimization problems. (Russian) **89j:90251**

Cheremnykh, Yu. N. *see* **Bank, Bernd; et al., 89c:90069**

Cohon, Jared L. (*with* Scavone, Giuseppe; Solanki, Rajendra) Multicriterion optimization in resources planning. (*see* **89f:90171**)

Dantzig, George B. Planning under uncertainty using parallel computing. **89h:90134**

Delgado, M. (*with* Verdegay, J. L.; Vila, M. A.) Imprecise costs in mathematical programming problems. (Russian and Polish summaries) **89a:90078**

Đinh Thế Lục Convexity and closedness of sets with respect to cones. **89c:52002**

Dumitru, Vincenţiu (*with* Luban, Florica) On the Pareto invariance of some decision functionals. **89h:90006**

Emelichev, V. A. (*with* Perepelitsa, V. A.) Multicriteria problems on graph spanning trees. **89f:90122**

Fuchs, Martin A note on removable singularities for minima of certain vector-valued obstacle problems. **89e:49007**

Furems, E. M. *see* **Larichev, O. I.; et al., 89e:68111**

Gritsak, V. V. Optimization over combinatorial manifolds. (Russian) **89d:90173**

Harrison, Terry P. (*with* Rosenthal, Richard E.) Optimizability of utility and value functions. **89a:90030**

Hazen, Gordon B. Differential characterizations of nonconical dominance in multiple objective decision making. **89c:90127**

Hettich, R. (*with* Still, G.) Local aspects of a method for solving membrane-eigenvalue problems by parametric semi-infinite programming. **89c:49032**

Horst, Reiner (*with* de Vries, Jakob; Nguyen Van Thoai) On finding new vertices and redundant constraints in cutting plane algorithms for global optimization. **89d:90189**

Hrouda, Jaroslav Multicriteria evaluation in economic analysis. (Czech. English summary) **89a:90006**

Jahn, Johannes (*with* Krabs, W.) Applications of multicriteria optimization in approximation theory. (*see* **89f:90171**)

Jain, Hemant K. *see* **Javalgi, Rajshekhar G.**, (**89j:90161**)

Jain, Ramesh *see* **Khan, Naseem A.**, (Not in MR)

Javalgi, Rajshekhar G. (*with* Jain, Hemant K.) Integrating multiple criteria decision making models into the decision support system framework for marketing decisions. (*see* **89j:90161**)

Kaniovskiĭ, Yu. M. Convergence of one-dimensional stochastic processes of optimization and estimation in multiextremal problems. (Russian) **89d:60056**

Kaplan, A. A. Stability of methods for solving convex programming problems and variational inequalities. (Russian) **89h:90176**

Karwan, Mark H. *see* **Köksalan, Murat; et al., 89k:90093**

Kaul, R. N. (*with* Lyall, Vinod; Kaur, Surjeet) Semilocal pseudolinearity and efficiency. **89h:90239**

Kaur, Surjeet *see* **Kaul, R. N.; et al., 89h:90239**

Khachatryan, R. V. Dynamically stable optimality principles in multicriterial multistage games. (Russian. Armenian summary) **89g:90257**

Khan, Naseem A. (*with* Jain, Ramesh) Uncertainty management in a distributed knowledge based system. (Russian summary) (Not in MR)

Köksalan, Murat (*with* Karwan, Mark H.; Zionts, Stanley) An approach for solving discrete alternative multiple criteria problems involving ordinal criteria. **89k:90093**

Kondrat′ev, V. V. Compatibility, coordination and optimization problems in active systems. (Russian. English summary) **89a:90007**

Korotkova, T. I. *see* **Volkova, T. B., 89d:90018**

Koski, Juhani Multicriteria truss optimization. (*see* **89f:90171**)

Kozeratskaya, L. N. (*with* Lebedeva, T. T.; Sergienko, T. I.) Necessary and sufficient conditions for the stability of multicriterial problems of integer linear programming. (Russian. English summary) **89k:90116**

Kozyrev, A. N. *see* **Makarov, Valeriĭ Leonidovich; et al., 89d:90052**

Krabs, W. *see* **Jahn, Johannes**, (**89f:90171**)

Kruś, Lech *see* **Bronisz, Piotr, 89j:90311** *and* (**89f:00029**)

Larichev, O. I. (*with* Mechitov, A. I.; Moshkovich, E. M.; Furems, E. M.) A method of expert classification for the formation of knowledge bases of diagnostic systems. **89e:68111**

Lebedeva, T. T. *see* **Kozeratskaya, L. N.; et al., 89k:90116**

Litvinchev, I. S. A decomposition method for optimization problems not possessing a block-separable structure. (Russian) **89a:90112**

Loewen, Philip D. The proximal normal formula in Hilbert space. **89b:49017**

Lozovanu, D. D. Duality principle for systems of linear inequalities with the right-hand sides depending on parameters. **89j:15032**

Luban, Florica *see* **Dumitru, Vincenţiu, 89h:90006**

Lyall, Vinod *see* **Kaul, R. N.; et al., 89h:90239**

Magnanti, T. L. (*with* Orlin, J. B.) Parametric linear programming and anti-cycling pivoting rules. **89h:90145**

Makarov, Valeriĭ Leonidovich (*with* Vasil′ev, V. A.; Kozyrev, A. N.; Marakulin, V. M.) Equilibrium, rationing and stability (based on results of the work of the second Novosibirsk school on mathematical economics). (Russian) **89d:90052**

Malakooti, B. (*with* Ravindran, A.) Experiments with an interactive paired comparison simplex method for MOLP problems. **89d:90124**

Mandel, Reinhard *see* **Bank, Bernd; et al., 89c:90069** *and* **89m:90119**

Marakulin, V. M. *see* **Makarov, Valeriĭ Leonidovich; et al., 89d:90052**

Mechitov, A. I. *see* **Larichev, O. I.; et al., 89e:68111**

Moshkovich, E. M. *see* **Larichev, O. I.; et al., 89e:68111**

Nagahisa, Youji Necessary conditions for a mathematical programming problem with set and cone constraints. **89b:90227**

Nakonechnyĭ, A. N. The method of the small parameter in the analysis of stochastic extremal problems with rare events. (Russian) **89e:90161**

Nguyen Van Thoai *see* **Horst, Reiner; et al., 89d:90189**

Nijkamp, Peter (*with* Rietveld, Piet; Spronk, J.) Open problems in the operationalization of multiple criteria decision methods. A brief survey. **89g:90007**

Novikova, N. M. Centralized optimization of systems with given participants. **89k:90192**

Orlin, J. B. *see* **Magnanti, T. L., 89h:90145**

Ozernoĭ, V. M. Multiple criteria decision making in the USSR: a survey. **89k:90005**

Pang, Jong-Shi A posteriori error bounds for the linearly-constrained variational inequality problem. **89d:90225**

Penev, G. D. (*with* Roslyakov, A. P.) Application of a method of parametric functionals for nonlinear global optimization. (Russian. English summary) **89j:90229**

Perepelitsa, V. A. *see* **Emelichev, V. A., 89f:90122**

Przesławski, Krzysztof Note on Lipschitz continuous, valuated selectors for the family of convex and compact subsets of Banach space. **89h:26023**

Qi, Guo An Multistage decision problems in the rational exploitation of ultralean ores. (Chinese) (Not in MR)

Radó, F. (*with* Baker, John A.) Pexider's equation and aggregation of allocations. **89i:39014**

Ravindran, A. *see* **Malakooti, B., 89d:90124**

Renegar, James A polynomial-time algorithm, based on Newton's method, for linear programming. **89b:90130**

Rietveld, Piet *see* **Nijkamp, Peter; et al., 89g:90007**

Rosenthal, Richard E. *see* **Harrison, Terry P., 89a:90030**

Roslyakov, A. P. *see* **Penev, G. D., 89j:90229**

Sadek, Ibrahim S. *see* **Adali, S.; et al., 89d:49001**

Scavone, Giuseppe *see* **Cohon, Jared L.; et al.**, (**89f:90171**)

Schmidt, Charles P. *see* **Barron, F. Hutton, 89k:90020**

Schultz, Rüdiger Estimates for Kuhn-Tucker points of perturbed convex programs. **89j:90205**

Schulz, N. Welfare economics and the vector maximum problem. (*see* **89f:90171**)

Semple, John Hartley (*with* Zlobec, S.) On a necessary condition for stability in perturbed linear and convex programming. (German summary) **89c:90087**

Sergienko, T. I. *see* **Kozeratskaya, L. N.; et al., 89k:90116**

Sherali, H. D. Bounds on penalties for dummy arcs in transportation networks. **89h:90246**

Shironin, V. M. *see* **Bank, Bernd; et al., 89c:90069**

Shungarov, Kh. D. On the solution of a multicriterial problem of the covering of a graph by stars. (Russian) **89k:90111**

Sloss, J. M. *see* **Adali, S.; et al., 89d:49001**

Solanki, Rajendra *see* **Cohon, Jared L.; et al.**, (**89f:90171**)

Spronk, J. *see* **Nijkamp, Peter; et al., 89g:90007**

Stadler, Wolfram Natural structural shapes (a unified optimal design philosophy). (*see* **89f:90171**)

Stancu-Minasian, I. M. (*with* Ţigan, Şt.) A stochastic approach to some linear fractional goal programming problems. **89h:90171**

Sterna-Karwat, A. A note on cone-maximal and extreme points in topological vector spaces. **89b:49010**

Still, G. *see* **Hettich, R., 89c:49032**

Thompson, G. L. (*with* Zawack, D. J.) A problem expanding parametric programming method for solving the job shop scheduling problem. **89b:90111**

Ţigan, Şt. *see* **Stancu-Minasian, I. M., 89h:90171**

Tran Quoc Chien Unification of the abstract duality scheme. **89b:90230**

Vasil′ev, V. A. *see* **Makarov, Valeriĭ Leonidovich; et al., 89d:90052**

Verdegay, J. L. *see* **Delgado, M.; et al., 89a:90078**

Vila, M. A. *see* **Delgado, M.; et al., 89a:90078**

Vincent, Thomas L. Renewable resource management. (*see* **89f:90171**)

Volkova, T. B. (*with* Korotkova, T. I.) A decomposition algorithm for constructing the boundary of a Pareto domain with a minimal level of data on the controllable system. (Russian. English summary) **89d:90018**

de Vries, Jakob *see* **Horst, Reiner; et al., 89d:90189**

Vyazgin, V. A. On a multicriteria problem of the control of motion. (Russian) **89b:49030**

Yager, Ronald R. On ordered weighted averaging aggregation operators in multicriteria decisionmaking. **89a:90073**

Zawack, D. J. *see* **Thompson, G. L., 89b:90111**

Zhukovin, V. E. ★ Нечеткие многокритериальные модели принятия решений. (Russian) [Fuzzy multicriterial models of decision-making] **89h:90136**

Zionts, Stanley *see* **Kŏksalan, Murat; et al., 89k:90093**

Zlobec, S. *see* **Semple, John Hartley, 89c:90087**

Items listed otherwise than by author

Multiple criteria decision making ★ Multiple criteria decision making. **89j:90161**

Special issue:

Multiple criteria decision making ★ Multiple criteria decision making. **89j:90161**

90C32 Fractional programming

Bayalinov, È. B. Economic interpretation of dual estimates in linear fractional programming. (Russian) **89c:90105**

Bector, C. R. (*with* Chandra, Suresh) (Generalized)-bonvexity and higher order duality for fractional programming. **89b:90212**

— (*with* Chandra, Suresh; Durga Prasad, M. V.) Nonlinear fractional programming duality for Hanson-Mond class of functions with nondifferentiable terms. **89h:90235**

— (*with* Suneja, S. K.) Duality in generalized fractional programming involving nondifferentiable functions. **89k:90157**

Benadada, Y. (*with* Ferland, J. A.) Partial linearization for generalized fractional programming. (German summary) **89f:90172**

Bykadorov, I. A. Conditions for the quasiconvexity of sums of linear-fractional functions. (Russian) **89a:90149**

Chadha, S. S. Hyperbolic programming—a new criteria. **89b:90213**

Chandra, Suresh *see* **Bector, C. R., 89b:90212** *and* **89h:90235**

Craven, B. D. ★ Fractional programming. **89i:90087**

— Fractional programming—a survey. **89j:90249**

Durga Prasad, M. V. *see* **Bector, C. R.; et al., 89h:90235**

Ferland, J. A. *see* **Benadada, Y., 89f:90172**

Gupta, Indrani *see* **Vartak, M. N., 89h:90237**

Kaur, Surjeet *see* **Lyall, Vinod, 89d:90223**

Khanna, Saroj *see* **Verma, Vanita; et al., 89a:90150**

Lyall, Vinod (*with* Kaur, Surjeet) Decomposition in generalised fractional programming and its optimal dual solution. **89d:90223**

Mukherjee, Rathindra Nath[1] *see* **Yadav, Shri Ram; et al., 89g:90220**

Prasad, Shiv *see* **Yadav, Shri Ram; et al., 89g:90220**

Puri, M. C. *see* **Verma, Vanita; et al., 89a:90150**

Singh, Chanchal Generalized fractional programming with Hanson-Mond classes of functions. **89j:90250**

Sniedovich, Moshe Fractional programming revisited. **89h:90236**

Solomon, D. I. Decomposition methods in linear-fractional programming. (Russian) **89f:90173**

— Decomposition algorithms for solving generalized linear-fractional programming problems. (Russian) **89f:90174**

Suneja, S. K. *see* **Bector, C. R., 89k:90157**

Vartak, M. N. (*with* Gupta, Indrani) Duality theory for fractional programming problems under η-convexity. **89h:90237**

Verma, Vanita (*with* Khanna, Saroj; Puri, M. C.) "Bad-points" in linear fractional program: a comparative study. **89a:90150**

Xiang, Xiao Qing A maximum problem and its application. (Chinese) (Not in MR)

Xu, Zeng Kun The use of programming with $p+1$ parameters to solve problems of generalized fractional programming. (Chinese) (Not in MR)

Yadav, Shri Ram (*with* Prasad, Shiv; Mukherjee, Rathindra Nath[1]) A dual differentiable exact penalty function in fractional programming. **89g:90220**

Zalmai, G. J. Duality for a class of continuous-time fractional programming problems. **89b:90214**

Items with secondary classifications in 90C32

Abramov, Yu. Sh. Quasiconvexity of the values of some extremal problems generated by selfadjoint operators. (Russian) **89k:90178**

Avriel, Mordecai (*with* Diewert, Walter E.; Schaible, Siegfried; Zang, Israel) ★ Generalized concavity. **89e:90155**

Bayalinov, È. B. On a system of interconnected dual estimates. (Russian) **89j:90165**

Bector, C. R. *see* **Bector, Meena K.; et al., 89j:90214**

Bector, Meena K. (*with* Husain, I.; Chandra, Suresh; Bector, C. R.) A duality model for a generalized minmax program. **89j:90214**

Carotenuto, L. (*with* Muraca, P.; Raiconi, G.) Observation strategy for a parallel connection of discrete-time linear systems. **89m:93080**

Chandra, Suresh *see* **Bector, Meena K.; et al., 89j:90214**

Diewert, Walter E. *see* **Avriel, Mordecai; et al., 89e:90155**

Egudo, Richard R. Multiobjective fractional duality. **89g:90211**

Gulati, T. R. (*with* Islam, M. A.) Proper efficiency in a linear fractional vector maximum problem with generalized convex constraints. **89k:90152**

Husain, I. *see* **Bector, Meena K.; et al., 89j:90214**

Ibaraki, Toshihide *see* **Morioka, Tsutomu; et al., 89e:90116**

Islam, M. A. *see* **Gulati, T. R., 89k:90152**

Morioka, Tsutomu (*with* Ohnishi, Masamitsu; Ibaraki, Toshihide) Optimal inspection and replacement problem of Markovian deterioration system and its computational algorithms. **89e:90116**

Muraca, P. *see* **Carotenuto, L.; et al., 89m:93080**

Ohnishi, Masamitsu *see* **Morioka, Tsutomu; et al., 89e:90116**

Raiconi, G. *see* **Carotenuto, L.; et al., 89m:93080**

Sakawa, Masatoshi (*with* Yano, Hitoshi) An interactive fuzzy satisficing method for multiobjective linear fractional programming problems. **89k:90153**

Schaible, Siegfried *see* **Avriel, Mordecai; et al., 89e:90155**

Stancu-Minasian, I. M. (*with* Ţigan, Şt.) A stochastic approach to some linear fractional goal programming problems. **89h:90171**

Ţigan, Şt. *see* **Stancu-Minasian, I. M., 89h:90171**

Xu, Zeng Kun Saddle-point type optimality criteria for generalized fractional programming. **89f:90160**

Yano, Hitoshi *see* **Sakawa, Masatoshi, 89k:90153**

Zang, Israel *see* **Avriel, Mordecai; et al., 89e:90155**

90C33 Linear and nonlinear complementarity problems

Bank, Bernd (*with* Mandel, Reinhard) (Mixed-) integer solutions of quasiconvex polynomial inequalities. **89i:90088**

Bulavskiĭ, V. A. Feedback in optimization problems. (Russian) **89j:90251**

Chandrasekaran, R. (*with* Pang, Jong-Shi; Stone, Richard E.) Two counterexamples on the polynomial solvability of the linear complementarity problem. **89b:90215**

De Leone, R. (*with* Mangasarian, O. L.) Asynchronous parallel successive overrelaxation for the symmetric linear complementarity problem. **89k:90158**

— *see also* **Mangasarian, O. L., 89a:90151** *and* **89i:90089**

Doup, T. M. (*with* van den Elzen, A. H.; Talman, A. J. J.) Simplicial algorithms for solving the nonlinear complementarity problem on the simplotope. **89e:90204**

van den Elzen, A. H. *see* **Doup, T. M.; et al., 89e:90204**

Faustino, A. M. *see* **Júdice, J. J., 89h:90238**

Fülöp, J. The transformation of the linear disjunctive programming problem into a facial problem. (Not in MR)

Gómez, Susana *see* **Quintana, José M.; et al., 89k:90163**

Gupta, Suchitra (*with* Pardalos, P. M.) A note on a quadratic formulation for linear complementarity problems. **89d:90224**

Isac, G. Fixed point theory, coincidence equations on convex cones and complementarity problem. **89k:90159**

Jeter, Melvyn W. (*with* Pye, Wallace C.) Structure properties of W matrices. **89m:90156**

Júdice, J. J. (*with* Faustino, A. M.) An experimental investigation of enumerative methods for the linear complementarity problem. **89h:90238**

— (*with* Mitra, Gautam) An enumerative method for the solution of linear complementarity problems. **89e:90205**

Kabe, D. G. On some multivariate generalizations of linear and quadratic programming problems. **89k:90160**

Kaul, R. N. (*with* Lyall, Vinod; Kaur, Surjeet) Semilocal pseudolinearity and efficiency. **89h:90239**

Kaur, Surjeet *see* **Kaul, R. N.; et al., 89h:90239**

Kuhn, Dieter (*with* Löwen, Rainer) Piecewise affine bijections of $\mathbf{R}^n$, and the equation $Sx^+ - Tx^- = y$. **89k:90161**

Kumar, Anil[1] *see* **Parida, J.; et al., 89g:90224**

Lawrence, Jim *see* **Morris, Walter D., Jr., 89m:90158**

Löwen, Rainer *see* **Kuhn, Dieter, 89k:90161**

Lyall, Vinod *see* **Kaul, R. N.; et al., 89h:90239**

Mandel, Reinhard *see* **Bank, Bernd, 89i:90088**

Mangasarian, O. L. (*with* De Leone, R.) Parallel successive overrelaxation methods for symmetric linear complementarity problems and linear programs. **89a:90151**

— (*with* De Leone, R.) Parallel gradient projection successive overrelaxation for symmetric linear complementarity problems and linear programs. **89i:90089**

— *see also* **De Leone, R., 89k:90158**

Mitra, Gautam *see* **Júdice, J. J., 89e:90205**

Mohan, Srinivasa Raghavan *see* **Ramamurthy, K. G., 89d:90228**

Morris, Walter D., Jr. Counterexamples to Q-matrix conjectures. **89m:90157**

— (*with* Lawrence, Jim) Geometric properties of hidden Minkowski matrices. **89m:90158**

Murty, Katta G. ★ Linear complementarity, linear and nonlinear programming. **89h:90240**

Noor, Muhammad Aslam The quasicomplementarity problem. **89g:90221**

— Iterative methods for a class of complementarity problems. **89g:90222**

— Fixed point approach for complementarity problems. **89g:90223**

Oeder, Wolfgang Ein Algorithmus zur Lösung eines speziellen Zwei-Ebenen-Optimierungsproblems. [An algorithm for the solution of a special bilevel programming problem] **89f:90175**

O'Reilly, Federico J. *see* **Quintana, José M.; et al., 89k:90163**

Pang, Jong-Shi A posteriori error bounds for the linearly-constrained variational inequality problem. **89d:90225**

— (*with* Yang, Jiann-Min) Two-stage parallel iterative methods for the symmetric linear complementarity problem. **89h:90241**

— Two characterization theorems in complementarity theory. **89b:90216**

— *see also* **Chandrasekaran, R.; et al., 89b:90215**

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— Linear complementarity problems solvable by integer programming. **89k:90162**

— (*with* Rosen, J. B.) Global optimization approach to the linear complementarity problem. **89d:90226**
— *see also* **Gupta, Suchitra, 89d:90224**
Parida, J. (*with* Sen, Ashima; Kumar, Anil[1]) A linear complementarity problem involving a subgradient. **89g:90224**
Phillips, A. T. (*with* Rosen, J. B.) A parallel algorithm for solving the linear complementarity problem. **89j:90252**
Pye, Wallace C. *see* **Jeter, Melvyn W., 89m:90156**
Quintana, José M. (*with* O'Reilly, Federico J.; Gómez, Susana) Least squares with inequality restrictions: a symmetric positive-definite linear complementarity problem algorithm. **89k:90163**
Ramamurthy, K. G. (*with* Mohan, Srinivasa Raghavan) On the linear complementarity problem with a reflexive inverse of a singular matrix. **89d:90228**
Rosen, J. B. *see* **Pardalos, P. M., 89d:90226; 89d:90227** *and* **Phillips, A. T., 89j:90252**
Schneider, Michael H. A complementary pivoting algorithm for linear network problems. **89d:90229**
Sen, Ashima *see* **Parida, J.; et al., 89g:90224**
Shmyrëv, V. I. A topological approach to the study of the linear complementarity problem. A spherical variant of the algorithm. (Russian) **89h:90242**
Stone, Richard E. *see* **Chandrasekaran, R.; et al., 89b:90215**
Subramanian, P. K. Fixed-point methods for the complementarity problem. **89m:90159**
Švarc, Rudolf Linear complementarity problem and extremal hyperplanes. **89f:90176**
Talman, A. J. J. *see* **Doup, T. M.; et al., 89e:90204**
Yang, Jiann-Min *see* **Pang, Jong-Shi, 89h:90241**
Zhang, Jian Zhong Duality and sensitivity analysis of constrained MDI problems. (Chinese. English summary) **89b:90217**

Items with secondary classifications in 90C33

Blum, Lenore A new simple homotopy algorithm for linear programming. I. **89h:90140**
Eaves, B. Curtis Thoughts on computing market equilibrium with SLCP. **89e:90051**
Fujishige, Satoru *see* **Tamura, Akihisa; et al., 89j:90173**
Fukuda, Komei *see* **Tamura, Akihisa; et al., 89j:90173**
Harker, Patrick T. Accelerating the convergence of the diagonalization and projection algorithms for finite-dimensional variational inequalities. **89d:49004**
Hoppe, Ronald H. W. Multigrid algorithms for variational inequalities. **89b:65157**
Jansen, Mathijs Equilibrium points of bimatrix games. **89a:90162**
Kojima, Masakazu *see* **Tamura, Akihisa; et al., 89j:90173**
Morris, Walter D., Jr. (*with* Todd, M. J.) Symmetry and positive definiteness in oriented matroids. **89i:05086**
Noor, Muhammad Aslam Convergence analysis of the iterative methods for quasicomplementarity problems. **89f:49008**
Parida, J. (*with* Sahoo, Makdam) A generalized variational inequality involving a gradient. **89f:49009**
Sahoo, Makdam *see* **Parida, J., 89f:49009**
Švarc, Rudolf Some combinatorial results about the operators with jumping nonlinearities. **89h:58020**
Takehara, Hitoshi *see* **Tamura, Akihisa; et al., 89j:90173**
Tamura, Akihisa (*with* Takehara, Hitoshi; Fukuda, Komei; Fujishige, Satoru; Kojima, Masakazu) A dual interior primal simplex method for linear programming. (Japanese summary) **89j:90173**
Tanabe, Kunio Centered Newton method for mathematical programming. **89j:90231**
Todd, M. J. *see* **Morris, Walter D., Jr., 89i:05086**
You, Zhao Yong (*with* Zhu, Si Quan) On global convergence and approximate iteration of the linear approximation method for solving variational inequalities. **89f:65073**
Zhu, Si Quan *see* **You, Zhao Yong, 89f:65073**

90C35 Network programming, programming in networks

Ahlfeld, David P. (*with* Mulvey, John M.; Dembo, Ron S.; Zenios, Stavros A.) Nonlinear programming on generalized networks. **89b:90218**
Ball, Michael O. (*with* Taverna, R.) Sensitivity analysis for the matching problem and its use in solving matching problems with a single side constraint. **89b:90219**
Barnes, J. Wesley *see* **Jensen, Paul A., 89a:90152**
Ben-Ayed, Omar (*with* Boyce, David E.; Blair, Charles E., III) A general bilevel linear programming formulation of the network design problem. (Not in MR)
Bertsekas, Dimitri P. (*with* Hosein, Patrick A.; Tseng, Paul) Relaxation methods for network flow problems with convex arc costs. **89h:90243**
— (*with* Eckstein, Jonathan) Dual coordinate step methods for linear network flow problems. **89k:90164**
Blair, Charles E., III *see* **Ben-Ayed, Omar; et al.,** (Not in MR)
Boronin, A. B. (*with* Pershin, O. Yu.) Dynamic location problems where the components of the graph of connections have a radial structure. **89h:90244**
Boyce, David E. *see* **LeBlanc, Larry J.,** (Not in MR) *and* **Ben-Ayed, Omar; et al.,** (Not in MR)
Calamai, Paul H. (*with* Conn, A. R.) A projected Newton method for l_p norm location problems. **89d:90230**
Camerini, P. M. (*with* Galbiati, G.; Maffioli, Francesco) Algorithms for finding optimum trees: description, use and evaluation. **89e:90206**
Chaiken, Seth Extremal length and width of blocking polyhedra, Kirchhoff spaces and multiport networks. **89k:90165**
(Chandrasekaran, R.) *see* **Murty, Katta G., 89g:90227**
Chang, M. D. (*with* Engquist, M.; Finkel, Rafael A.; Meyer, R. R.) A parallel algorithm for generalized networks. **89g:90225**
Conforti, D. *see* **Grandinetti, L., 89k:90166**
Conn, A. R. *see* **Calamai, Paul H., 89d:90230**
Dangalchev, Ch. A. Network interpretation of functions that contain the operations of taking the modulus. (Russian) **89j:90253**
Dembo, Ron S. *see* **Ahlfeld, David P.; et al., 89b:90218**
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Eckstein, Jonathan *see* **Bertsekas, Dimitri P., 89k:90164**
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Gondran, Michel (*with* Minoux, M.) ★ Graphes et algorithmes. (French) [Graphs and algorithms] **89i:90090**
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Gulyanitskiĭ, L. F. An approach to the metrization of a permutation space and its use in problems of discrete optimization. (Russian) **89j:90255**
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Pershin, O. Yu. *see* **Boronin, A. B., 89h:90244**
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Ahmed, Shams Uddin *see* **Finke, G., 89b:90075**
Ahn, Sang (*with* Cooper, Colin; Cornuejols, Gerard; Frieze, A. M.) Probabilistic analysis of a relaxation for the k-median problem. **89c:90048**
Anderson, Richard John (*with* Mayr, Ernst) Parallelism and greedy algorithms. **89j:68057**
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Cerdeira, J. Orestes (*with* Coelho, J. Dias) Some theorems on the equivalence of the multiple traveling salesman problem and the traveling salesman problem. (Portuguese) **89g:90093**
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Gavioli, Ilario *see* **Rossi, Francesco A., 89j:90116**
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Kuh, Ernest S. *see* **Xiong, Xiao-Ming, 89m:90066**
Laporte, Gilbert (*with* Mercure, Hélène; Nobert, Yves) Cutting planes based on bin packing solutions for the capacitated vehicle routing problem. **89e:90143**
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Mayr, Ernst *see* **Anderson, Richard John, 89j:68057**
Mayr, R. *see* **Papageorgiou, M., 89e:90089**
Meinel, Christoph A complexity theoretic parade of network-flow-problems. **89k:90056**
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Murga, E. I. (*with* Roenko, N. V.) On the solution of a two-stage stochastic problem on the k-median. (Russian. English summary) **89h:90095**
Nobert, Yves *see* **Laporte, Gilbert; et al., 89e:90143**
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Sakaguchi, Minoru *see* **Khan, Z. A., 89h:90094**
Satsangi, P. S. *see* **Mathur, M. C., 89d:90098**
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Tsai, Wei T. *see* **Tsai, Wei K.; et al., 89k:65079**
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90C39 Dynamic programming [see also 49Cxx]

Benzing, H. (*with* Kolonko, M.) Structured policies for a sequential design problem with general distributions. **89f:90177**
Bhakta, P. C. (*with* Choudhury, Sumitra Roy) Some existence theorems for functional equations arising in dynamic programming. II. **89h:90248**
Bierth, K.-J. An expected average reward criterion. **89f:90178**
Bui Duc Thuc (*with* Romanovskiĭ, I. V.) Computational aspects of finite dynamic programming. (Russian) **89m:90161**
Carraway, R. L. (*with* Morin, Thomas L.) Theory and applications of generalized dynamic programming: an overview. **89j:90258**
Choudhury, Sumitra Roy *see* **Bhakta, P. C., 89h:90248**
Faĭnberg, E. A. Sufficient classes of strategies in discrete dynamic programming. II. Locally stationary strategies. (Russian) **89f:90179**
Flynn, James (*with* Wijngaard, Jacob) On fractional flow models and equivalent finite state processes. **89j:90259**
Haurie, A. *see* **L'Ecuyer, Pierre, 89c:90106**
Haymond, Robert E. (*with* Thornton, John R.; Warner, Daniel D.) A shortest path algorithm in robotics and its implementation on the FPS T-20 hypercube. (Not in MR)
He, Guang Zong A note on dynamic programming. (Chinese) **89j:90260**
Hirokawa, Sumio (*with* Wakuta, Kazuyoshi) Optimum weighing rules for detecting counterfeit coins. (Japanese) **89a:90153**
Hopp, Wallace J. Sensitivity analysis in discrete dynamic programming. **89f:90180**
Hwang, F. K. *see* **Yao, Y.-C., 89e:90208**
Ikuta, Seizo Optimal stopping problem with uncertain recall. (Japanese summary) **89g:90228**
Iwamoto, Seiichi (*with* Tomkins, R. J.; Wang, Chung-Lie) A generalization of the Hölder inequality through dynamic programming approach. **89j:90261**
Katehakis, Michael N. (*with* Veinott, Arthur F., Jr.) The multi-armed bandit problem: decomposition and computation. **89a:90154**
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Mäkilä, P. M. *see* **Toivonen, H. T.**, (Not in MR)
Moatti, Marie Discretization and Markov modeling of a state variable in dynamic programming. (*see* **89f:00029**)
Morin, Thomas L. *see* **Carraway, R. L., 89j:90258**
Ng, K. Y. K. (*with* Sancho, N. G. F.) Dynamic programming, reduction of dimensionality and eigenvalue problems. **89k:90170**
Poor, H. Vincent *see* **Verdú, Sergio, 89f:90181**
Romanovskiĭ, I. V. *see* **Bui Duc Thuc, 89m:90161**
Sancho, N. G. F. *see* **Ng, K. Y. K., 89k:90170**
Thornton, John R. *see* **Haymond, Robert E.; et al.**, (Not in MR)
Toivonen, H. T. (*with* Mäkilä, P. M.) Computer-aided design procedure for multiobjective LQG control problems. (Not in MR)
Tomkins, R. J. *see* **Iwamoto, Seiichi; et al., 89j:90261**
Veinott, Arthur F., Jr. *see* **Katehakis, Michael N., 89a:90154**
Verdú, Sergio (*with* Poor, H. Vincent) Abstract dynamic programming models under commutativity conditions. **89f:90181**
Wakuta, Kazuyoshi *see* **Hirokawa, Sumio, 89a:90153**
Wang, Chung-Lie The principle and models of dynamic programming. II, III. **89k:90171**
— *see also* **Iwamoto, Seiichi; et al., 89j:90261**
Warner, Daniel D. *see* **Haymond, Robert E.; et al.**, (Not in MR)
Wijngaard, Jacob *see* **Flynn, James, 89j:90259**
Yao, Y.-C. (*with* Hwang, F. K.) A fundamental monotonicity in group testing. **89e:90208**
Yushkevich, A. A. On the two-armed bandit problem with continuous time parameter and discounted rewards. **89k:90172**
Zijm, W. H. M. Asymptotic expansions for dynamic programming recursions with general nonnegative matrices. **89c:90107**

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Akian, Marianne Résolution numérique d'équations d'Hamilton-Jacobi-Bellman au moyen d'algorithmes multigrilles et d'itérations sur les politiques. (English summary) [Numerical solution of Hamilton-Jacobi-Bellman equations by means of multigrid algorithms and policy iterations] **89i:93122**
Bárdossy, A. *see* **Szidarovszky, Ferenc; et al., 89d:90010**
Berry, Donald A. *see* **Fristedt, Bert, 89g:60154**
Bertsekas, Dimitri P. ★ Dynamic programming. **89f:49001**
Bierth, K.-J. An average reward criterion by Mandl. **89j:90262**
Borkar, V. S. Control of Markov chains with long-run average cost criterion. **89e:93218**
Boukas, K. (*with* Haurie, A.) Optimality conditions for continuous time systems with controlled jump Markov disturbances: application to an FMS planning problem. **89f:49029**
Cooper, Russel J. *see* **McLaren, Keith R., 89c:90042**
van Dijk, Nico M. On the finite horizon Bellman equation for controlled Markov jump models with unbounded characteristics: existence and approximation. **89j:93139**
Dudnikov, P. I. (*with* Samborskiĭ, S. N.) Endomorphisms of semimodules over semirings with an idempotent operation. (Russian) **89f:16057**
Eaves, B. Curtis (*with* Rothblum, Uriel G.) Invariant polynomial curves of piecewise linear maps. **89b:47093**
Elosmani, Mohammed Étude d'un problème de contrôle stochastique ergodique. (English summary) [Study of an ergodic stochastic control problem] **89m:93090**
Elton, J. H. Continuity properties of optimal stopping value. **89g:60153**
Englisch, H. (*with* Voight, Heinz) The inpolygon with minimal area and the circumpolygon with maximal perimeter. **89f:52026**
Enns, E. G. (*with* Ferenstein, E. Z.) On a multiperson time-sequential game with priorities. **89b:90244**
Ferenstein, E. Z. *see* **Enns, E. G., 89b:90244**
Fernández-Baca, David Nonserial dynamic programming formulations of satisfiability. **89m:68048**
Fleming, W. H. (*with* Sethi, Suresh P.; Soner, H. M.) An optimal stochastic production planning problem with randomly fluctuating demand. **89c:90057**
Fristedt, Bert (*with* Berry, Donald A.) Optimality of myopic stopping times for geometric discounting. **89g:60154**
Gershon, Mark *see* **Szidarovszky, Ferenc; et al., 89d:90010**
Gusev, L. A. *see* **Aĭzerman, M. A.; et al., 89i:90007**
Hamada, Toshio Some results for a multi-armed bandit problem. **89m:62097**
Haurie, A. *see* **Boukas, K., 89f:49029**
Hoppe, Ronald H. W. Multigrid algorithms for variational inequalities. **89b:65157**
Ji, Chuanshu Sequential scheduling of priority queues and arm-acquiring bandits. **89k:60139**
Kapur, J. N. (*with* Kumar, Vinod^2; Kumar, Uma) A measure of mutual divergence among a number of probability distributions. **89d:94030**
Khan, Z. A. (*with* Sakaguchi, Minoru) A multiobjective stochastic shortest-route problem. **89h:90094**
Kogan, I. A. Optimal segmentation of structural experimental curves on the basis of the dynamic programming method. **89i:93128**
Komarov, V. A. A dynamic programming equation for a time-optimality problem with phase constraints. **89g:49037**
Kumar, Uma *see* **Kapur, J. N.; et al., 89d:94030**

Kumar, Vinod^2 *see* **Kapur, J. N.; et al., 89d:94030**
Kurisu, Tadashi On a certain secretary problem with two stops. **89d:90232**
Lin, Jian Nan (*with* Lü, Yong Zai) Decomposition algorithm of dynamic programming for large-scale time-delay systems. **89h:49027**
Louka, Basile (*with* Tchuente, Maurice) Dynamic programming on two-dimensional systolic arrays. **89m:68103**
Lü, Yong Zai *see* **Lin, Jian Nan, 89h:49027**
Mazziotto, G. (*with* Millet, Annie) Stochastic control of two-parameter processes application: the two-armed bandit problem. **89d:90233**
McLaren, Keith R. (*with* Cooper, Russel J.) Functional forms in intertemporal duality. **89c:90042**
Millet, Annie *see* **Mazziotto, G., 89d:90233**
Petrov, Sergeĭ Vsevolodovich *see* **Aĭzerman, M. A.; et al., 89i:90007**
Pittenger, A. O. Monotonicity in a Markov decision process. **89f:90068**
Pyber, L. How to find many counterfeit coins? **89c:05003**
Rempała, Ryszarda Horizontal solution of an inventory problem with stochastic prices. **89b:90069**
Rothblum, Uriel G. *see* **Eaves, B. Curtis, 89b:47093**
Sakaguchi, Minoru *see* **Khan, Z. A., 89h:90094**
Samborskiĭ, S. N. *see* **Dudnikov, P. I., 89f:16057**
Sethi, Suresh P. *see* **Fleming, W. H.; et al., 89c:90057**
Smirnova, I. M. *see* **Aĭzerman, M. A.; et al., 89i:90007**
Soner, H. M. *see* **Fleming, W. H.; et al., 89c:90057**
Sorokin, V. P. Transient processes in the solution of dynamic distributed problems in real-time automatic control systems. (Russian) **89j:90086**
Stanfel, L. E. New dynamic programming models of fisheries management. **89k:90044**
Sutherland, W. R. S. (*with* Wolkowicz, H.; Zeidan, V.) An explicit linear solution for the quadratic dynamic programming problem. **89e:49023**
Szidarovszky, Ferenc (*with* Gershon, Mark; Bárdossy, A.) Application of multiobjective dynamic programming to regional natural resource management. **89d:90010**
Tchuente, Maurice *see* **Louka, Basile, 89m:68103**
Tenenbaum, L. A. *see* **Aĭzerman, M. A.; et al., 89i:90007**
Teraoka, Yoshinobu A game of timing in which the players improve their information patterns. **89f:90202**
Voight, Heinz *see* **Englisch, H., 89f:52026**
Vyazgin, V. A. On the rationality of solutions of nonantagonistic differential games. (Russian) **89d:90249**
Wolkowicz, H. *see* **Sutherland, W. R. S.; et al., 89e:49023**
Yakowitz, S. Theoretical and computational advances in differential dynamic programming. (Russian and Polish summaries) (Not in MR)
Yasuda, Masami The optimal value of Markov stopping problems with one-step look ahead policy. **89g:90237**
Zeidan, V. *see* **Sutherland, W. R. S.; et al., 89e:49023**
Zhang, Sheng The structure of optimal policies for discounted models with unbounded rewards. (Chinese) (Not in MR)
Zidăroiu, Corneliu Differential stability for random decision systems with complete connections. **89h:90253**

90C40 Markov decision processes; Markov programming and Markov renewal programming

Anisimov, V. V. (*with* Petrenko, O. R.) Recurrent adaptive optimization of controllable Markov systems. (Russian. English and Georgian summaries) **89f:90182**
Bansal, Rajesh (*with* Başar, Tamer) Simultaneous design of communication and control strategies for stochastic systems with feedback. **89e:90209**
Başar, Tamer *see* **Bansal, Rajesh, 89e:90209**
Bean, James C. *see* **Hopp, Wallace J.; et al., 89g:90232**
Bierth, K.-J. An average reward criterion by Mandl. **89j:90262**
Cavazos-Cadena, Rolando Necessary and sufficient conditions for a bounded solution to the optimality equation in average reward Markov decision chains. **89g:90229**
— (*with* Lasserre, J. B.) Strong 1-optimal stationary policies in denumerable Markov decision processes. **89j:90263**
— Necessary conditions for the optimality equation in average-reward Markov decision processes. **89j:90264**
Costa, O. L. V. (*with* Davis, M. H. A.) Approximations for optimal stopping of a piecewise-deterministic process. **89h:90249**
Davis, M. H. A. *see* **Costa, O. L. V., 89h:90249**
van Dawen, R. Limit-optimal strategies in countable state decision problems. **89f:90183**
Dekker, Rommert Counterexamples for compact action Markov decision chains with average reward criteria. **89g:90230**
— (*with* Hordijk, Arie) Average, sensitive and Blackwell optimal policies in denumerable Markov decision chains with unbounded rewards. **89k:90173**
Dong, Ze Qing (*with* Liu, Ke) The structure of optimal policies for discounted models. (Chinese) **89b:90220**
— (*with* Gan, Ying Ai) An elementary method on discounted Markovian decision programming. (Chinese. English summary) **89h:90250**
— (*with* Song, Jing Sheng) A secondary approach to the discounted model in semi-Markov decision processes. **89m:90162**
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Dorvlo, A. S. S. *see* **Fulkerson, L., 89f:90185**
Erickson, Ranel E. Optimality of stationary halting policies and finite termination of successive approximations. **89f:90184**
Fay, N. A. *see* **Glazebrook, K. D., 89h:90251**
Fulkerson, L. (*with* Dorvlo, A. S. S.) Existence of a solution to the Markov renewal programming problem. **89f:90185**
Gan, Ying Ai *see* **Dong, Ze Qing, 89h:90250**
Glazebrook, K. D. (*with* Fay, N. A.) Evaluating strategies for generalized bandit problems. **89h:90251**
Guan, Wei De Markov decision drift processes. (Chinese) **89k:90174**
Hernández-Lerma, O. (*with* Lasserre, J. B.) A forecast horizon and a stopping rule for general Markov decision processes. **89f:90186**
Hill, Theodore P. (*with* van der Wal, Jan) Monotonically improving limit-optimal strategies in finite-state decision processes. **89a:90155**
Hlynka, M. (*with* Sheahan, J. N.) The secretary problem for a random walk. **89g:90231**
Hopp, Wallace J. (*with* Bean, James C.; Smith, Robert L.) A new optimality criterion for nonhomogeneous Markov decision processes. **89g:90232**
Hordijk, Arie *see* **Dekker, Rommert, 89k:90173**
Huang, H. Continuous time Markovian decision processes with controllable drift. (German summary) **89b:90221**
Hübner, G. A unified approach to adaptive control of average reward Markov decision processes. (German summary) **89j:90265**
Kristensen, Anders R. Hierarchic Markov processes and their applications in replacement models. **89g:90233**
Kurano, Masami Markov decision processes with a minimum-variance criterion. **89b:90222**
Kurisu, Tadashi On a certain secretary problem with two stops. **89d:90232**
Lai, T. L. (*with* Ying, Zhiliang) Open bandit processes and optimal scheduling of queueing networks. **89f:90187**
Lasserre, J. B. *see* **Hernández-Lerma, O., 89f:90186** *and* **Cavazos-Cadena, Rolando, 89j:90263**
Leizarowitz, Arie Infinite horizon optimization for finite state Markov chain. **89g:90234**
Li, Dong Hui Two algorithms for undiscounted Markov decision programming—successive approximation and block-successive approximation. (Chinese. English summary) **89i:90091**
Liu, Di Fen A numerical procedure for discounted model Markov decision programming. (Chinese. English summary) **89e:90210**
Liu, Ke *see* **Dong, Ze Qing, 89b:90220**
Lovejoy, William S. Some monotonicity results for partially observed Markov decision processes. **89f:90188**
Makowski, Armand M. (*with* Shwartz, Adam) Implementation issues for Markov decision processes. **89f:90189**
Martynenko, O. N. An algorithm for excluding nonoptimal strategies in controlled Markov processes. **89j:90266**
Mazalov, V. V. ★ Игровые моменты остановки. (Russian) [Game-theoretic stopping times] **89a:90156**
Mazziotto, G. (*with* Millet, Annie) Stochastic control of two-parameter processes application: the two-armed bandit problem. **89d:90233**
Millet, Annie *see* **Mazziotto, G., 89d:90233**
Ohno, Katsuhisa A value iteration method for undiscounted multichain Markov decision processes. (German summary) **89g:90235**
Papadimitriou, Christos H. (*with* Tsitsiklis, John N.) The complexity of Markov decision processes. **89c:90108**
Petrenko, O. R. *see* **Anisimov, V. V., 89f:90182**
Piunovskiĭ, A. B. The discounted controlled Markov chain with delay. (Russian summary) **89k:90175**
Sakaguchi, Minoru Some simple models of duels with a random termination time. **89f:90190**
Scarsini, M. On a simple sequential decision problem. **89j:90267**
Scherer, W. T. *see* **White, C. C., III, 89k:90176**
Schweitzer, Paul J. Solving Markovian decision processes by successive elimination of variables. **89f:90191**
— Contraction mappings underlying undiscounted Markov decision problems. II. **89m:90163**
Sheahan, J. N. *see* **Hlynka, M., 89g:90231**
Sheskin, Theodore J. Successive approximations in value determination for a Markov decision process. **89b:90223**
Shwartz, Adam *see* **Makowski, Armand M., 89f:90189**
Smith, Robert L. *see* **Hopp, Wallace J.; et al., 89g:90232**
Sokolichin, A. Existenz durchschnittsoptimaler Strategien in einem Markoffschen Entscheidungsmodell mit unbekannter Parameterfolge. (English summary) [Existence of average-optimal strategies in a Markov decision model with unknown parameter sequence] **89h:90252**
Song, Jing Sheng (*with* Dong, Ze Qing) Continuous time total return Markov decision programming. (Chinese) (Not in MR)
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Stein, J. On efficiency of linear programming applied to discounted Markovian decision problems. (German summary) **89f:90192**
Tsitsiklis, John N. *see* **Papadimitriou, Christos H., 89c:90108**
van der Wal, Jan *see* **Hill, Theodore P., 89a:90155**
White, C. C., III (*with* Scherer, W. T.) Reward revision and the average reward Markov decision process. (German summary) **89k:90176**
White, Douglas John Mean, variance, and probabilistic criteria in finite Markov decision processes: a review. **89a:90157**
— Discount-isotone policies for Markov decision processes. (German summary) **89g:90236**
Wu, Ji Shan Ordinal Markov decision programming. (Chinese. English summary) **89k:90177**
Yasuda, Masami The optimal value of Markov stopping problems with one-step look ahead policy. **89g:90237**
Ying, Zhiliang *see* **Lai, T. L., 89f:90187**
Yushkevich, A. A. Bellman inequalities in Markov decision deterministic drift processes. **89d:90234**
Zhang, Sheng The structure of optimal policies for discounted models with unbounded rewards. (Chinese) (Not in MR)
Zidăroiu, Corneliu Differential stability for random decision systems with complete connections. **89h:90253**
Zijm, W. H. M. Exponential convergence in undiscounted continuous-time Markov decision chains. **89a:90158**

Items with secondary classifications in 90C40

Agrawal, Rajeev (*with* Hegde, Manjunath V.; Teneketzis, Demosthenis) Asymptotically

efficient adaptive allocation rules for the multiarmed bandit problem with switching cost. **89k:62105**
Anantharam, Venkatachalam (*with* Varaiya, P.; Walrand, Jean) Asymptotically efficient allocation rules for the multiarmed bandit problem with multiple plays. I. I.I.D. rewards. **89h:62140**
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Baranov, V. V. (*with* Podtsykin, N. S.; Kharybin, N. I.) Optimal decision methods in controllable Markov systems with a nonobservable state. (Russian) **89d:93115**
Bather, John *see* **Benkherouf, L., 89e:90068**
Benkherouf, L. (*with* Bather, John) Oil exploration: sequential decisions in the face of uncertainty. **89e:90068**
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Berninghaus, S. (*with* Völker, R.) Optimale Innovationspolitik bei unvollständiger Information. (English summary) [Optimal innovation policy under incomplete information] **89h:90002**
Berry, Donald A. *see* **Fristedt, Bert, 89g:60154**
Bierth, K.-J. An expected average reward criterion. **89f:90178**
Borkar, V. S. Control of Markov chains with long-run average cost criterion. **89e:93218**
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Dalang, Robert C. On stopping points in the plane that lie on a unique optional increasing path. **89k:60048**
van Dijk, Nico M. (*with* Puterman, Martin L.) Perturbation theory for Markov reward processes with applications to queueing systems. **89h:60108**
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Dochviri, V. M. On optimal stopping with incomplete data. **89g:60152**
Easley, David (*with* Kiefer, Nicholas M.) Controlling a stochastic process with unknown parameters. **89i:90003**
Eaves, B. Curtis (*with* Rothblum, Uriel G.) Invariant polynomial curves of piecewise linear maps. **89b:47093**
Eidukevičius, R. Existence of an optimal stopping time in an optimal stopping problem for a Markov chain with discounting. (Russian. English and Lithuanian summaries) **89h:60069**
Faĭnberg, E. A. Sufficient classes of strategies in discrete dynamic programming. II. Locally stationary strategies. (Russian) **89f:90179**
Flynn, James (*with* Wijngaard, Jacob) On fractional flow models and equivalent finite state processes. **89j:90259**
Fristedt, Bert (*with* Berry, Donald A.) Optimality of myopic stopping times for geometric discounting. **89g:60154**
Garroni, Maria Giovanna (*with* Menaldi, José-Luis) On the asymptotic behaviour of solutions of integro-differential inequalities. **89m:49048**
Gilat, David On the best order of observation in optimal stopping problems. **89a:60123**
Hamada, Toshio Some results for a multi-armed bandit problem. **89m:62097**
Heath, David C. (*with* Kertz, Robert P.) Leaving an interval in limited playing time. **89i:90102**
Hegde, Manjunath V. *see* **Agrawal, Rajeev; et al., 89k:62105**
Hipp, Sabine K. (*with* Holzbaur, Ulrich D.) Decision processes with monotone hysteretic policies. **89h:90099**
Holzbaur, Ulrich D. *see* **Hipp, Sabine K., 89h:90099**
Hwang, F. K. (*with* Xu, Yong Hua^2) Group testing to identify one defective and one mediocre item. **89c:90063**
— *see also* **Zhang, Xian Mo; et al., 89g:90121**
Ibaraki, Toshihide *see* **Morioka, Tsutomu; et al., 89e:90116**
Ikuta, Seizo Optimal stopping problem with uncertain recall. (Japanese summary) **89g:90228**
Kalin, Dieter *see* **Benzing, H.; et al., 89d:62081**
Katehakis, Michael N. (*with* Veinott, Arthur F., Jr.) The multi-armed bandit problem: decomposition and computation. **89a:90154**
Kertz, Robert P. *see* **Heath, David C., 89i:90102**
Kharybin, N. I. *see* **Baranov, V. V.; et al., 89d:93115**
Kiefer, Nicholas M. *see* **Easley, David, 89i:90003**
Köchel, P. Optimal adaptive inventory control for a multi-location model with redistribution. **89j:90084**
van Laarhoven, P. J. M. ★ Theoretical and computational aspects of simulated annealing. **89m:90136**
Lai, T. L. Asymptotic solutions of bandit problems. **89c:62139**
Mandelbaum, Avi Continuous multi-armed bandits and multiparameter processes. **89b:62169**
Menaldi, José-Luis *see* **Garroni, Maria Giovanna, 89m:49048**
Móri, Tamás F. Hitting a small group of middle ranked candidates in the secretary problem. **89m:60100**
Morioka, Tsutomu (*with* Ohnishi, Masamitsu; Ibaraki, Toshihide) Optimal inspection and replacement problem of Markovian deterioration system and its computational algorithms. **89e:90116**
Ohnishi, Masamitsu *see* **Morioka, Tsutomu; et al., 89e:90116**
Pestien, Victor C. (*with* Sudderth, William D.) Continuous-time casino problems. **89f:93047**
Pittenger, A. O. Monotonicity in a Markov decision process. **89f:90068**
Podtsykin, N. S. *see* **Baranov, V. V.; et al., 89d:93115**
Puterman, Martin L. *see* **van Dijk, Nico M., 89h:60108**
Rothblum, Uriel G. *see* **Eaves, B. Curtis, 89b:47093**
Seidmann, Abraham Regenerative pull (Kanban) production control policies. **89d:90112**
Stadje, W. An optimal k-stopping problem for the Poisson process. **89a:60125**
— An optimal stopping problem with finite horizon for sums of i.i.d. random variables. **89a:60126**
Stettner, Ł. On ergodic stopping and impulsive control problems for nonuniformly ergodic Markov processes. **89k:60060**
Stidham, Shaler, Jr. Scheduling, routing, and flow control in stochastic networks. **89b:60228**
Sudderth, William D. *see* **Pestien, Victor C., 89f:93047**
Tamaki, Mitsushi Optimal stopping in the parking problem with U-turn. **89h:60070**
Teneketzis, Demosthenis *see* **Agrawal, Rajeev; et al., 89k:62105**
Theodorescu, R. *see* **Benzing, H.; et al., 89d:62081**
Varaiya, P. *see* **Anantharam, Venkatachalam; et al., 89h:62140; 89h:62141** *and* **89m:62090**
Veinott, Arthur F., Jr. *see* **Katehakis, Michael N., 89a:90154**
Völker, R. *see* **Berninghaus, S., 89h:90002**
Walrand, Jean *see* **Anantharam, Venkatachalam; et al., 89h:62140** *and* **89h:62141**
Weng, Jia Feng *see* **Zhang, Xian Mo; et al., 89g:90121**
Wijngaard, Jacob *see* **Flynn, James, 89j:90259**
Xu, Yong Hua^2 *see* **Hwang, F. K., 89c:90063**
Yushkevich, A. A. On the two-armed bandit problem with continuous time parameter and discounted rewards. **89k:90172**
Zachary, Stan Control of stochastic loss networks, with applications. **89e:90096**
Zhang, Xian Mo (*with* Hwang, F. K.; Weng, Jia Feng) Optimal detection of two defectives with a parity check device. **89g:90121**
Zijm, W. H. M. Asymptotic expansions for dynamic programming recursions with general nonnegative matrices. **89c:90107**

90C48 Programming in abstract spaces

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Babikov, G. V. Some problems of linear algebra and linear programming over partially ordered rings. (Russian) **89h:90254**
Bector, C. R. (*with* Chandra, Suresh; Husain, I.) Second order duality in continuous-time nonlinear programming. **89b:90224**
— (*with* Bhatt, S. K.) Optimality conditions and duality for quasi-convex programming in real Banach space. **89h:90255**
Beer, Gerald On a generic optimization theorem of Petar Kenderov. **89i:90092**
Ben-Tal, A. (*with* Teboulle, M.; Charnes, A.) The role of duality in optimization problems involving entropy functionals with applications to information theory. **89g:90238**
Bhatt, S. K. *see* **Bector, C. R., 89h:90255**
Borwein, J. M. Epi-Lipschitz-like sets in Banach space: theorems and examples. **89b:90225**
Chandra, Suresh *see* **Bector, C. R.; et al., 89b:90224**
Chang, Chên Hua *see* **Lin, Yen Ch'ūan, 89j:90269**
Charnes, A. *see* **Ben-Tal, A.; et al., 89g:90238**
Chentsov, A. G. *see* **Sesekin, A. N., 89j:90272**
Chumburidze, G. G. On the solution of optimization problems in a space of continuous functions. (Russian. English and Georgian summaries) **89e:90211**
Dietrich, H. Zur c-Konvexität und c-Subdifferenzierbarkeit von Funktionalen. (English summary) [On c-convexity and c-subdifferentiability of functionals] **89j:90268**
Ermol'ev, Yu. M. *see* **Gaĭvoronskiĭ, A. A., 89c:90109**
Fabian, M. On classes of subdifferentiability spaces of Ioffe. **89e:90212**
Fattorini, H. O. (*with* Frankowska, H.) Necessary conditions for infinite-dimensional control problems. **89h:90256**
Frankowska, H. *see* **Fattorini, H. O., 89h:90256**
Gaĭvoronskiĭ, A. A. (*with* Ermol'ev, Yu. M.) Methods for searching for optimal submeasures (characterization of the solutions). (Russian. English summary) **89c:90109**
Heinecke, G. (*with* Oettli, W.) Characterization of weakly efficient points. (German summary) **89m:90164**
Hoàng Tụy An implicit space covering method with applications to fixed point and global optimization problems. **89k:90179**
Husain, I. *see* **Bector, C. R.; et al., 89b:90224**
Isac, G. Supernormal cones and fixed point theory. **89d:90235**
Jeyakumar, V. On optimality conditions in nonsmooth inequality constrained minimization. **89e:90213**
Kellerer, Hans G. Measure theoretic versions of linear programming. **89f:90193**
Lai, Han Ch'ing (*with* Lin, Lai Chü) Moreau-Rockafellar type theorem for convex set functions. **89g:90239**
Lędzewicz-Kowalewska, Urszula Application of the method of contractor directions to the Dubovitskiĭ-Milyutin formalism. **89b:90226**
Levashov, V. A. Subdifferential analogues of a theorem of Mil'man. (Russian) (*see* 89c:00006)
Lin, Lai Chü *see* **Lai, Han Ch'ing, 89g:90239**
Lin, Yen Ch'ūan (*with* Chang, Chên Hua) On the abstraction of linear duality. **89j:90269**
Minchenko, L. I. Estimates for the subdifferentials of a function of a maximum. (Russian. English summary) **89k:90180**
Nagahisa, Youji Necessary conditions for a mathematical programming problem with set and cone constraints. **89b:90227**
Nesterov, S. A. *see* **Potapov, M. M., 89j:90270**
Nesterov, Yu. E. An approach to constructing optimal methods for minimization of smooth convex functions. (Russian) **89m:90165**
Oettli, W. *see* **Heinecke, G., 89m:90164**
Pai, D. V. Abstract minimization problems, restricted centers and fixed points. **89b:90228**
Penot, Jean-Paul About linearization, conization, calmness, openness and regularity. **89d:90236**
— Local minimality versus spongious minimality. **89k:90181**
Phạm Hữu Sách Regularity, calmness and support principle. **89b:90229**
Potapov, M. M. (*with* Nesterov, S. A.) Approximation and regularization of problems of parametric minimization. **89j:90270**
Precupanu, Anca-Maria (*with* Precupanu, Teodor) A characterization of antiproximinal sets. **89d:90237**

Precupanu, Teodor *see* **Precupanu, Anca-Maria, 89d:90237**

Pshenichnyĭ, B. N. Necessary conditions for an extremum, penalty functions and regularity. **89g:90240**

Revalski, J. P. Generic well-posedness in some classes of optimization problems. **89d:90238**

Rodrigues, B. (*with* Simons, Stephen) Conjugate functions and subdifferentials in nonnormed situations for operators with complete graphs. **89j:90271**

Sesekin, A. N. (*with* Chentsov, A. G.) An infinite-dimensional mathematical programming problem. (Russian. English summary) **89j:90272**

Sha, Zhen An extreme value problem. (Chinese. English summary) **89g:90241**

Simons, Stephen *see* **Rodrigues, B., 89j:90271**

Skulimowski, Andrzej M. J. A sufficient condition for Θ-minimality of distance scalarization procedures. **89m:90166**

Tan, Ze Guang A proof of the finite basis theorem for polyhedra. (Chinese. English summary) **89k:90182**

Teboulle, M. *see* **Ben-Tal, A.; et al., 89g:90238**

Tran Quoc Chien Unification of the abstract duality scheme. **89b:90230**

Tsyupiĭ, S. Ī. Directional derivatives of a minimum function in normed spaces. (Ukrainian. Russian summary) **89f:90194**

Vasil'ev, F. P. A residual method for solving unstable minimization problems. (Russian) **89d:90239**

Zejnullahu, R. On a problem of minimization in Banach spaces. (Serbo-Croatian summary) **89f:90195**

Zhu, Dao Li The augmented Lagrange functional and the multiplier method for optimization problems with constraints in Hilbert spaces. (Chinese) (Not in MR)

Items listed otherwise than by author

Essays:

Nonlinear analysis and optimization problems ★ Essays on nonlinear analysis and optimization problems. **89g:90242**

Items with secondary classifications in 90C48

Ashchepkov, L. T. ★ Оптимальное управление разрывными системами. (Russian) [Optimal control of discontinuous systems] **89a:49016**

Azé, D. Caractérisation de la convergence au sens de Mosco en terme d'approximations inf-convolutives. (English summary) [Characterization of convergence in the sense of Mosco in terms of inf-convolutive approximations] **89k:90127**

Balashova, S. D. (*with* Plaksiĭ, Z. T.) Projection-iteration methods for solving problems of minimization with constraints. (Russian) **89m:65059**

Bardaro, Carlo (*with* Ceppitelli, Rita) Minimax inequalities in Riesz spaces. **89h:90260**

Bedel'baev, A. A. Correctness of the definition of second-order subdifferentials. (Russian) **89a:49017**

Beer, Gerald (*with* Kenderov, P. S.) On the ARG MIN multifunction for lower semicontinuous functions. **89f:26001**

(Blagodat·skikh, V. I.) *see* **Clarke, Frank H., 89m:49028**

Borwein, J. M. (*with* Fitzpatrick, Simon; Giles, J. R.) The differentiability of real functions on normed linear space using generalized subgradients. **89b:58027**

Bougeard, Mireille L. Morse theory for some lower-C^2 functions in finite dimension. **89k:58054**

Ceppitelli, Rita *see* **Bardaro, Carlo, 89h:90260**

Chakalov, Vladimir L. Extremal elements of normed spaces and some related extremal problems. I. (Russian) **89b:41040**

Chandra, Suresh (*with* Craven, B. D.; Husain, I.) A class of nondifferentiable control problems. **89g:49021**

Cherkasskiĭ, B. V. *see* **Nesterov, Yu. E., 89b:90190**

Clarke, Frank H. ★ Оптимизация и негладкий анализ. (Russian) [Optimization and nonsmooth analysis] **89m:49028**

Cohen, Guy Nash equilibria: gradient and decomposition algorithms. **89g:90247**

Cominetti, Roberto (*with* Correa, Rafael) A useful characterization of Clarke derivatives. **89g:49022**

Correa, Rafael *see* **Cominetti, Roberto, 89g:49022**

Craven, B. D. *see* **Chandra, Suresh; et al., 89g:49021**

Demidov, V. N. *see* **Golubev, Yu. F., 89a:49032**

Dommisch, Gerlinde On the existence of Lipschitz-continuous and differentiable selections for multifunctions. **89h:90221**

Dunn, J. C. On the convergence of projected gradient processes to singular critical points. **89a:90120**

Eberhard, A. C. Characterization of subgradients. I. **89g:90168**

Erëmin, I. I. Duality and approximation for improper problems of mathematical programming. **89c:90083**

Evans, Lawrence C. (*with* Gariepy, R. F.) Blow-up, compactness and partial regularity in the calculus of variations. **89e:49014**

Fitzpatrick, Simon *see* **Borwein, J. M.; et al., 89b:58027**

Flåm, S. D. Variational inequalities and the convex feasibility problem. **89g:49011**

Gariepy, R. F. *see* **Evans, Lawrence C., 89e:49014**

Georgiev, Pando Grigorov The strong Ekeland variational principle, the strong drop theorem and applications. **89c:46019**

Giannessi, F. Theorems of the alternative for multifunctions with applications to optimization: general results. **89a:90123**

Giles, J. R. *see* **Borwein, J. M.; et al., 89b:58027**

Goberna, M. A. (*with* López, Marco Antonio) Discrete approximation in linear semi-infinite programming. **89a:90080**

Goh, C. J. *see* **Teo, Kok-Lay, 89g:49031**

Golubev, Yu. F. (*with* Demidov, V. N.) A method for straightening constraints. (Russian. English summary) **89a:49032**

Han, Shih-Ping A successive projection method. **89b:90185**

Hanson, Morgan A. *see* **Rueda, Norma G., 89d:90199**

Hollatz, Horst Extended subdifferential and minimization of nondifferentiable functions. **89j:90202**

Horváth, M. (*with* Sövegjártó, A.) On convex functions. **89g:49015**

— *see also* **Joó, István, 89g:49016**

Husain, I. *see* **Chandra, Suresh; et al., 89g:49021**

Isac, G. Un théorème de point fixe. Application au problème d'optimisation d'Eršov. [A fixed point theorem. Application to the Ershov optimization problem] **89h:47088**

— Fixed point theory, coincidence equations on convex cones and complementarity problem. **89k:90159**

Jeyakumar, V. A general Farkas lemma and characterization of optimality for a nonsmooth program involving convex processes. **89b:90165**

Joó, István Answer to a problem of M. Horváth and A. Sövegjártó. **89g:49016**

Kabadi, Santosh N. *see* **Murty, Katta G., 89b:90189**

Kawasaki, Hidefumi An envelope-like effect of infinitely many inequality constraints on second-order necessary conditions for minimization problems. **89d:90191**

Kenderov, P. S. *see* **Beer, Gerald, 89f:26001**

Khromova, L. N. *see* **Vasil'ev, F. P., (89c:00022)**

Kolbin, V. V. Optimization problems in semi-ordered spaces. (Russian. English and Azerbaijani summaries) **89f:46015**

Kotarski, Wiesław Further generalization of the Dubovicki-Milutin theorem. **89b:49040**

Kruger, A. Ya. A covering theorem for set-valued mappings. **89m:49030**

Kummer, Bernd Newton's method for nondifferentiable functions. **89h:90201**

Kutateladze, S. S. Infinitesimals and the calculus of tangents. (Russian) **89g:03099**

(Ledyaev, Yu. S.) *see* **Clarke, Frank H., 89m:49028**

Łędzewicz-Kowalewska, Urszula On the optimal control problems with Gâteaux differentiable operator constraints. **89b:49026**

Leleno, Joanna M. *see* **Sherali, H. D., 89k:90006**

Levin, V. L. Solution of a problem of convex analysis. (Russian) **89g:90171**

Liu, Gui Zhong *see* **Shou, Ji Lin, 89g:49010**

Loewen, Philip D. The proximal normal formula in Hilbert space. **89b:49017**

— The proximal subgradient formula in Banach space. **89k:49010**

Lommatzsch, Klaus A minimization of a strictly convex function on a simplex. **89f:90147**

López, Marco Antonio *see* **Goberna, M. A., 89a:90080**

Martellotti, Anna (*with* Salvadori, Anna) Positive continuous linear functionals on Riesz spaces and applications to minimax theorems. **89k:90188**

Mawhin, J. Semicoercive monotone variational problems. **89e:49005**

Molodtsov, D. A. ★ Устойчивость принципов оптимальности. (Russian) [Stability of optimality principles] **89d:90216**

Montrucchio, Luigi Lipschitz continuous policy functions for strongly concave optimization problems. **89f:90033**

Mordukhovich, B. Sh. ★ Методы аппроксимаций в задачах оптимизации и управления. (Russian) [Approximation methods in problems of optimization and control] **89m:49001**

Murty, Katta G. (*with* Kabadi, Santosh N.) Some NP-complete problems in quadratic and nonlinear programming. **89b:90189**

Naimpally, Somashekhar *see* **Pai, D. V., 89b:47081**

Nesterov, Yu. E. (*with* Cherkasskiĭ, B. V.) Lexicographic rules for the differentiation of nonsmooth functions. **89b:90190**

Ng, Kung Fu An inequality implicit function theorem. **89a:46095**

Nguyen, V. H. *see* **Strodiot, J.-J., 89j:49007**

Nguyễn Bu'ò'ng On an optimization problem. (Russian) **89d:45018**

Novozhilova, M. V. *see* **Stoyan, Yu. G., 89k:90099**

Nurminskiĭ, E. A. Calculation of the E-subgradients of extremal values. (Russian. English summary) **89k:90131**

Odinets, V. P. (*with* Ślęzak, Włodzimierz A.) ★ Wstęp do analizy wypukłej. (Polish) [Introduction to convex analysis] **89f:90118**

Oettli, W. Monoton-konvexe Funktionen—eine Bemerkung zum Satz von Browder-Minty. [Monotone-convex functions: a remark on the Browder-Minty theorem] **89i:47097**

Outrata, Jiří V. On numerical solution of optimal control problems with nonsmooth objectives: application to economic models. **89m:93027**

Pai, D. V. (*with* Naimpally, Somashekhar) Fixed points of multimappings related to minimization problems. **89b:47081**

Pallaschke, Diethard (*with* Recht, Peter; Urbański, Ryszard) On extensions of the second-order derivative. (Russian summary) **89m:58020**

Penot, Jean-Paul On the mean value theorem. **89i:26005**

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Zhao, Rui An On the implementation of the augmented multiplier method. (Chinese) (Not in MR)
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90C50 Applications of mathematical programming

Bachurina, M. D. (*with* Shirokov, A. M.) ★ Основы теории комплектования. (Russian) [Fundamentals of the theory of completion] **89i:90093**
Bisschop, Johannes J. Language requirements for a priori error checking and model reduction in large-scale programming. (*see* **89g:90136**)
Charnes, A. (*with* Cooper, W. W.; Golany, B.; Masters, J.) Optimal design modifications by geometric programming and constrained stochastic network models. **89d:90240**
Chervinskiĭ, R. A. ★ Методы синтеза систем в целевых программах. (Russian) [Methods for the design of systems in objective programs] **89d:90241**
Cooper, W. W. *see* **Charnes, A.; et al., 89d:90240**
Elsner, G. A new sequential cluster algorithm for optical lens design. (Not in MR)
Erëmin, I. I. Conflicting models for planning and control. (Russian) **89e:90214**
Golany, B. *see* **Charnes, A.; et al., 89d:90240**
Khlobystov, V. V. *see* **Popov, Yu. D., 89d:90243**
Lasdon, L. S. (*with* Waren, A. D.; Sarkar, Swapan Kumar) Interfacing optimizers with planning languages and process simulators. (*see* **89g:90136**)
Lee, King Tak A horse betting problem. (Malay summary) **89m:90167**
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Muminov, Sh. R. (*with* Yadgarov, O. G.) Modeling and solution of an optimization problem. (Russian) **89d:90242**
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Sarkar, Swapan Kumar *see* **Lasdon, L. S.; et al.**, (**89g:90136**)
Shi, Ming Guang Selection of an initial acceptable design plan for the optimal design of a supply transformer and criteria for an empty feasible region. (Chinese. English summary) (Not in MR)
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Wiedemann, Michael *see* **Rothengatter, Werner**, (**89j:90002**)
Wilde, Douglass J. *see* **Papalambros, Panos Y., 89e:90215**
Wu, Shou Zhang *see* **Peng, Qin Ke**, (Not in MR)
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Binder, Z. *see* **Noyer, P., 89j:93003**
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Censor, Yair Parallel application of block-iterative methods in medical imaging and radiation therapy. **89i:92005**
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Freeman, George H. (*with* Mark, Jon W.; Blake, Ian F.) Trellis source codes designed by conjugate gradient optimization. **89d:94042**
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Kumar, Uma *see* **Kapur, J. N.; et al., 89d:94030**
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90C99 None of the above, but in this section

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Rinnooy Kan, A. H. G. *see* **Fisher, Marshall L., 89b:90231**

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Sucheston, Louis *see* **Krengel, Ulrich, 89d:60081**

90Dxx Game theory [see also 49A45, 93E05]

(Bennett, P. G.) *see* **Analysing conflict and its resolution, 89b:90234**

(Dacey, Raymond) *see* **Formal analysis in international relations, 89e:90218**

(Roth, Alvin E.) *see* **Shapley value, 89j:90274**

(Shapley, Lloyd S.) *see* **Shapley value, 89j:90274**

Items listed otherwise than by author

Analysing conflict and its resolution ★ Analysing conflict and its resolution. **89b:90234**

Cambridge ★ Analysing conflict and its resolution. **89b:90234**

Conference:

  Mathematics of Conflict and its Resolution ★ Analysing conflict and its resolution. **89b:90234**

Formal analysis in international relations ★ Formal analysis in international relations. **89e:90218**

Shapley value ★ The Shapley value. **89j:90274**

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90D05 2-person games

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Brams, Steven J. (*with* Kilgour, D. Marc) Optimal threats. **89a:90160**

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Mignanego, F. *see* **Lucchetti, R.; et al., 89e:90220**
Naegelen, Florence L'enchère optimale dans l'hypothèse de dépendance des évaluations: une caractérisation. (English summary) [Optimal auction with dependent values: a characterization] **89i:90095**
Nowak, Martin (*with* Sigmund, K.) Oscillations in the evolution of reciprocity. **89m:90173**
Papadimitriou, Christos H. *see* **Knuth, Donald E.; et al., 89k:90187**
Petrosyan, L. A. (*with* Zenkevich, N. A.) ★ Оптимальный поиск в условиях конфликта. (Russian) [Optimal search under conditions of conflict] **89j:90281**
Pieri, G. *see* **Lucchetti, R.; et al., 89e:90220**
Quintas, Luis G. Constructing bimatrix games with unique equilibrium points. **89g:90245**
— *see also* **Marchi, Ezio, 89h:90262**
Radner, Roy Can bounded rationality resolve the prisoners' dilemma? **89a:90163**
Rubinstein, Ariel *see* **Abreu, Dilip, 89j:90275**
Sahi, S. (*with* Shubik, Martin) A model of a sudden-death field-goal football game as a sequential duel. **89f:90201**
Sakaguchi, Minoru A two-sided resource allocation game in search for a stationary object. **89c:90111**
— Linear programming formulations for games with multiple payoffs. **89c:90112**
Salvadori, Anna *see* **Martellotti, Anna, 89k:90188**
Selten, Reinhard Correction and further development: "Evolutionary stability in extensive two-person games" [Math. Social Sci. 5 (1983), no. 3, 269–363; MR 86b:90145]. **89m:90174**
Shubik, Martin *see* **Sahi, S., 89f:90201**
Sigmund, K. *see* **Nowak, Martin, 89m:90173**
Teraoka, Yoshinobu A game of timing in which the players improve their information patterns. **89f:90202**
Tošić, Ratko Search number of the Cartesian product of graphs. (Serbo-Croatian summary) **89d:90248**
Tsitsiklis, John N. *see* **Knuth, Donald E.; et al., 89k:90187**
Vrieze, Koos Zero-sum stochastic games. **89f:90203**
Walliser, Bernard A simplified taxonomy of 2 × 2 games. **89k:90189**
Wilber, Robert White pebbles help. **89j:90282**
Witsenhausen, H. S. *see* **Kahn, J.; et al., 89j:90279**
Zenkevich, N. A. *see* **Petrosyan, L. A., 89j:90281**
Zwicker, William S. Playing games with games: the hypergame paradox. **89e:90221**

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Bard, Jonathan F. Convex two-level optimization. **89d:90212**
Baston, V. J. (*with* Bostock, F. A.) Discrete hamstrung squad car games. **89d:90261**
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Benoit, J.-P. A nonequilibrium analysis of the finitely-repeated prisoner's dilemma. **89j:90300**
Bostock, F. A. *see* **Baston, V. J., 89a:90190** *and* **89d:90261**
Brams, Steven J. (*with* Kilgour, D. Marc) ★ Game theory and national security. **89e:90245**
Cressman, R. Frequency- and density-dependent selection: the two-phenotype model. **89i:92036**
van Damme, Eric ★ Stability and perfection of Nash equilibria. **89f:90205**
Emanuel, David C. (*with* Sutrick, Kenneth H.) Nonrandom shuffling strategies in blackjack. **89i:60020**
Flack, V. F. *see* **Reeves, Jaxk Halbert, 89d:60084**
Harrington, Joseph E., Jr. Finite rationalizability and cooperation in the finitely repeated prisoners' dilemma. **89b:90246**
Horváth, M. (*with* Sövegjártó, A.) On convex functions. **89g:49015**
Kilgour, D. Marc *see* **Brams, Steven J., 89e:90245**
Kleĭmenov, A. F. Modified Stackelberg strategies for hierarchical differential two-person games. (Russian summary) **89b:90247**
Lalley, S. (*with* Robbins, Herbert) Stochastic search in a convex region. **89f:90078**
Landry, Stephen G. *see* **Robertson, Lewis C.; et al., 89h:60019**
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Mycielski, Jan Theories of pursuit and evasion. **89h:49006**
Olin, Doris Predictions, intentions and the prisoner's dilemma. (Not in MR)
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Papavassilopoulos, G. P. *see* **Tu, M., 89f:90213**
Pelc, Andrzej Prefix search with a lie. **89j:68027**
Reeves, Jaxk Halbert (*with* Flack, V. F.) A generalization of the classical secretary problem: dependent arrival sequences. **89d:60084**
Robbins, Herbert *see* **Lalley, S., 89f:90078**
Robertson, Lewis C. (*with* Shortt, Rae Michael; Landry, Stephen G.) Dice with fair sums. **89h:60019**
Roudneff, Jean-Pierre *see* **Meyniel, Henri, 89f:05111**
Salvadori, Anna *see* **Martellotti, Anna, 89g:46011**
Schellenberg, James A. A comparative test of three models for solving "the bargaining problem". **89e:90241**
Shih, Mou Hsiang (*with* Tan, Kok-Keong) A geometric property of convex sets with applications to minimax type inequalities and fixed point theorems. **89i:52018**
Shortt, Rae Michael *see* **Robertson, Lewis C.; et al., 89h:60019**
Simons, Stephen The continuity of inf sup, with applications. **89b:26011**
Sövegjártó, A. *see* **Horváth, M., 89g:49015**
Stinson, D. R. Some constructions and bounds for authentication codes. **89e:94011**
Subiza Martínez, Begoña Matrix games and their application to the Perron-Frobenius theory. (Spanish. English summary) **89g:15024**
Sutrick, Kenneth H. *see* **Emanuel, David C., 89i:60020**
Tan, Kok-Keong *see* **Shih, Mou Hsiang, 89i:52018**
Tu, M. (*with* Papavassilopoulos, G. P.) Performance versus informativeness in linear-quadratic Gaussian noncooperative games. **89f:90213**

90D10 *n*-person games, noncooperative

Alpern, Steve Game with repeated decisions. **89e:90222**
(Aumann, Robert J.) *see* **Harsanyi, John C., 89j:90285**
Başar, Tamer Relaxation techniques and asynchronous algorithms for on-line computation of noncooperative equilibria. **89c:90113**
Basu, Kaushik Strategic irrationality in extensive games. **89h:90263**
Benoit, J.-P. (*with* Krishna, V.) Nash equilibria of finitely repeated games. **89g:90246**
Ben-Tal, A. (*with* Charnes, A.; Golany, B.) On *n*-person game solutions and convex programs with essentially unconstrained duals. **89b:90237**
Bicchieri, Cristina Strategic behavior and counterfactuals. **89k:90190**
Brandenburger, Adam (*with* Dekel, Eddie) Rationalizability and correlated equilibria. **89c:90114**
Brègman, L. M. (*with* Fokin, I. N.) Methods for determining equilibrium states in polymatrix games with zero sum. (Russian) **89f:90204**
Cabral, Luis M. B. Asymmetric equilibria in symmetric games with many players. **89i:90096**
Carroll, John W. Iterated *n*-player prisoner's dilemma games. **89h:90264**
Charnes, A. *see* **Ben-Tal, A.; et al., 89b:90237**
Chun, Youngsub Nash solution and timing of bargaining. **89j:90283**
Cohen, Guy Nash equilibria: gradient and decomposition algorithms. **89g:90247**
da Costa Werlang, Sérgio Ribeiro *see* **Tan, Tommy Chin-Chiu, 89j:90288**
van Damme, Eric ★ Stability and perfection of Nash equilibria. **89f:90205**
— The impossibility of stable renegotiation. **89m:90175**
Dekel, Eddie *see* **Brandenburger, Adam, 89c:90114**
Fokin, I. N. *see* **Brègman, L. M., 89f:90204**
Forges, Françoise Communication equilibria in repeated games with incomplete information. **89e:90223**
Fudenberg, Drew (*with* Kreps, David M.; Levine, David K.) On the robustness of equilibrium refinements. **89g:90248**
Gilboa, Itzhak (*with* Schmeidler, David) Information dependent games. Can common sense be common knowledge? **89j:90284**
Ginchev, Ivan Geometric-analytic determination of equilibrium states in bimatrix games. (Bulgarian. English summary) **89e:90224**
Golany, B. *see* **Ben-Tal, A.; et al., 89b:90237**
Gol′berg, A. I. (*with* Gurvich, V. A.; Rozenblyum, M. Yu.; Khanin, K. M.) Conditions for dominance solvability of concave *n*-person games. (Russian) **89b:90238**
Gómez Sánchez-Manzano, Eusebio Games with convex payoff function in the first variable. **89m:90176**
Gurvich, V. A. *see* **Gol′berg, A. I.; et al., 89b:90238**
Harsanyi, John C. (*with* Selten, Reinhard) ★ A general theory of equilibrium selection in games. **89j:90285**
Jing, Yuan Wei (*with* Zhang, Si Ying) The solution to a kind of Stackelberg game systems with multi-follower: coordinative and incentive. **89e:90225**
Jiong, Jiang Closed-loop strategies in continuous dynamic game with multilevel of hierarchy. **89e:90226**
Kalai, Ehud (*with* Stanford, William) Finite rationality and interpersonal complexity in repeated games. **89e:90227**
Khanin, K. M. *see* **Gol′berg, A. I.; et al., 89b:90238**
Kleinberg, Norman L. (*with* Weiss, Jeffrey H.) Correction: "The orthogonal decomposition of games and an averaging formula for the Shapley value" [Math. Oper. Res. 11 (1986), no. 1, 117–124; MR 87c:90250]. **89e:90228**
Kreps, David M. *see* **Fudenberg, Drew; et al., 89g:90248**
Krishna, V. *see* **Benoit, J.-P., 89g:90246**
Krutov, B. P. (*with* Novikova, N. M.) Specifics of game-theoretic problems with related constraints. (Russian) **89e:90229**
Levine, David K. *see* **Fudenberg, Drew; et al., 89g:90248**
Mailath, George J. An abstract two-period game with simultaneous signaling—existence of separating equilibria. **89j:90286**
Mamedov, M. B. σ-equilibrium situations in nonantagonistic differential games. (Russian) **89j:90287**
Matłoka, Marian On some *N*-person games. **89b:90239**
Medvedkov, I. A. (*with* Urina, F. Z.) Selection of optimal strategies in the game informational model of a pattern recognition system. **89h:90265**
Mertens, J.-F. Repeated games. **89e:90230**
Myerson, Roger B. Negotiation in games: a theoretical overview. **89b:90240**
Novikova, N. M. *see* **Krutov, B. P., 89e:90229**
Okada, A. Perfect equilibrium points and lexicographic domination. **89i:90097**
Okuguchi, Koji *see* **Szidarovszky, Ferenc, 89i:90098**
Rozenblyum, M. Yu. *see* **Gol′berg, A. I.; et al., 89b:90238**
Schmeidler, David *see* **Gilboa, Itzhak, 89j:90284**
Selten, Reinhard *see* **Harsanyi, John C., 89j:90285**
Shubik, Martin Games with perceptive commanders but with indoctrinated or less perceptive subordinates. (*see* **89d:90019**)
Simon, Leo K. Local perfection. **89e:90231**
Stanford, William *see* **Kalai, Ehud, 89e:90227**
Szidarovszky, Ferenc (*with* Okuguchi, Koji) On the stability of an adaptive quadratic game. (Hungarian. English summary) **89i:90098**
Tan, Tommy Chin-Chiu (*with* da Costa Werlang, Sérgio Ribeiro) The Bayesian foundations of solution concepts of games. **89j:90288**
Urina, F. Z. *see* **Medvedkov, I. A., 89h:90265**

Vyazgin, V. A. On the rationality of solutions of nonantagonistic differential games. (Russian) **89d:90249**
Wąsowski, Janusz Existence of the balanced strategy in theory of conflicts. (Russian summary) **89d:90250**
Weiss, Jeffrey H. *see* **Kleinberg, Norman L., 89e:90228**
Yo, Yong Ho Games with the same sets of equilibrium points as convex games. (Korean. English summary) **89j:90289**
Żakowski, Wojciech The balanced strategy in an oriented total-conflict. (Russian summary) **89d:90251**
Zamir, Shmuel Topics in noncooperative game theory. **89i:90099**
Zhang, Si Ying *see* **Jing, Yuan Wei, 89e:90225**

Items with secondary classifications in 90D10

Başar, Tamer *see* **Saksena, Vikram R., 89i:93125**
Berardi, Luigia (*with* Eugeni, Franco) Blocking sets and game theory: origins and problems. (Italian) **89j:51005**
(Binmore, K. G.) *see* **Economic organizations as games, 89e:90246**
Bonanno, Giacomo Oligopoly equilibria when firms have local knowledge of demand. **89g:90055**
Calvo-Flores Segura, Antonio An algorithm for a two-person bargaining model. (Spanish. English summary) **89a:90161**
Chatterjee, Kalyan (*with* Samuelson, Larry) Bargaining under two-sided incomplete information: the unrestricted offers case. **89m:90029**
Cho, In-Koo A refinement of sequential equilibrium. **89b:90043**
Crémer, Jacques (*with* McLean, Richard P.) Full extraction of the surplus in Bayesian and dominant strategy auctions. **89j:90046**
Crépeau, Claude A zero-knowledge poker protocol that achieves confidentiality of the players' strategy or how to achieve an electronic poker face. **89b:94024**
(Dasgupta, Partha) *see* **Economic organizations as games, 89e:90246**
Degtyar, V. U. (*with* Safonov, I. V.) An evolutionary mechanism for the resolution of conflicts. **89j:92070**
Engelbrecht-Wiggans, Richard Revenue equivalence in multiobject auctions. **89d:90045**
Eugeni, Franco *see* **Berardi, Luigia, 89j:51005**
Farrell, Joseph Communication, coordination and Nash equilibrium. **89i:90094**
Forges, Françoise Can sunspots replace a mediator? **89m:90003**
Gabisoniya, V. E. (*with* Maĭsuradze, V. G.) A finite algorithm for the calculation of equilibrium states in a bimatrix game. (Russian. English summary) **89d:90247**
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Grigorenko, N. L. A problem of pursuit in n-person differential games. **89d:90263**
Gurvich, V. A. A stochastic game with complete information that does not have equilibrium states in pure stationary strategies. **89g:90256**
Idzik, Adam A dynamic production and consumption model. (Russian. English and Lithuanian summaries) **89e:90056**
Ishida, Tsutomu Three-level incentive schemes using follower's strategies in differential games. **89a:90177**
Kalai, Ehud Solutions to the bargaining problem. **89b:90253**
Kamien, Morton I. (*with* Tauman, Yair; Zang, Israel) Optimal license fees for a new product. **89g:90059**
Karni, Edi On the equivalence between descending bid auctions and first price sealed bid auctions. **89m:90023**
Lee, King Tak A horse betting problem. (Malay summary) **89m:90167**
Lensberg, Terje Stability and the Nash solution. **89h:90046**
Ma, Ching-to (*with* Moore, John Halstead; Turnbull, Stephen) Stopping agents from "cheating". **89j:90049**
Mailath, George J. On the behavior of separating equilibria of signaling games with a finite set of types as the set of types becomes dense in an interval. **89f:90028**
Maĭsuradze, V. G. *see* **Gabisoniya, V. E., 89d:90247**
Malafeev, O. A. Equilibrium for multicriterial control processes. (Russian) **89d:90259**
Mandelbaum, Avi Navigating and stopping multiparameter bandit processes. **89j:62114**
Maskin, Eric S. The theory of implementation in Nash equilibrium: a survey. **89c:90012**
McLean, Richard P. *see* **Crémer, Jacques, 89j:90046**
Mikaelyan, O. S. Comparative analysis of Nash equilibrium and a Pareto-optimal set in a nonantagonistic game with several objective points. (Russian. English and Armenian summaries) **89g:90259**
Moore, John Halstead (*with* Repullo, Rafael) Subgame perfect implementation. **89k:90011**
— *see also* **Ma, Ching-to; et al., 89j:90049**
Moreaux, Michel *see* **Gaudet, Gérard**, (**89d:00007**)
Morton, S. Strategic voting in repeated referenda. **89k:90012**
Myerson, Roger B. Bayesian equilibrium and incentive-compatibility: an introduction. **89b:90010**
Nguen Kong Khoan An n-person linear differential game with general integral constraints. (Russian. English and Azerbaijani summaries) **89d:90266**
Radner, Roy Can bounded rationality resolve the prisoners' dilemma? **89a:90163**
Repullo, Rafael *see* **Moore, John Halstead, 89k:90011**
Safonov, I. V. *see* **Degtyar, V. U., 89j:92070**
Saksena, Vikram R. (*with* Başar, Tamer) Multimodeling, singular perturbations, and stochastic decision problems. **89i:93125**
Samuelson, Larry *see* **Chatterjee, Kalyan, 89m:90029**
Schaffer, Mark E. Evolutionarily stable strategies for a finite population and a variable contest size. **89j:92071**
Simon, Leo K. Games with discontinuous payoffs. **89j:90298**
Tauman, Yair *see* **Kamien, Morton I.; et al., 89g:90059**
de Trenqualye, Pierre Stability of the Groves and Ledyard mechanism. **89g:90064**
Turnbull, Stephen *see* **Ma, Ching-to; et al., 89j:90049**
Zang, Israel *see* **Kamien, Morton I.; et al., 89g:90059**
Zhang, Ke Wei[1] Nash point equilibria for variational integrals. I. Existence results. **89m:49005**

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Economic organizations as games ★ Economic organizations as games. **89e:90246**

90D12 n-person games, cooperative, solution concepts

Bennett, E. (*with* Zame, William R.) Bargaining in cooperative games. **89j:90290**
Bomze, Immanuel M. A note on aspirations in nontransferable utility games. **89h:90266**
Butnariu, D. Values and cores of fuzzy games with infinitely many players. **89a:90164**
Carreras Escobar, Francesc An extension of the power index. (Spanish. English summary) **89f:90206**
Chakrabarti, Subir K. Refinements of the β-core and the strong equilibrium and the Aumann proposition. **89j:90291**
Chang, Chih An absorbing set for cooperative games. **89g:90249**
Charnes, A. (*with* Golany, B.; Keane, Michael; Rousseau, John James) Extremal principle solutions of games in characteristic function form: core, Chebychev and Shapley value generalizations. **89e:90232**
Chun, Youngsub (*with* Thomson, William L.) Monotonicity properties of bargaining solutions when applied to economics. **89d:90252**
Curiel, I. J. (*with* Maschler, Michael; Tijs, Stef H.) Bankruptcy games. (German summary) **89b:90241**
Dow, Gregory K. Information, production decisions, and intra-firm bargaining. **89g:90250**
Drăgan, Irinel The multicoalitional bargaining set M_0 versus the one-coalitional bargaining set M. **89a:90165**
Ehtamo, H. (*with* Ruusunen, J.; Kaitala, V.; Hämäläinen, R. P.) Solution for a dynamic bargaining problem with an application to resource management. **89j:90292**
Einy, Ezra The Shapley value on some lattices of monotonic games. **89j:90293**
Fudenberg, Drew (*with* Levine, David K.) Open-loop and closed-loop equilibria in dynamic games with many players. **89c:90115**
Gečienė, Vilija A defended set for a cooperative game. (Russian. English and Lithuanian summaries) **89c:90116**
Gérard-Varet, Louis-André (*with* Zamir, Shmuel) Remarks on the reasonable set of outcomes in a general coalition function form game. **89d:90253**
Golany, B. *see* **Charnes, A.; et al., 89e:90232**
Gospodinov, M. G. A method for forming coalitions in a differential-difference game. (Russian) **89h:90267**
Gupta, Sunil (*with* Livne, Zvi A.) Resolving a conflict situation with a reference outcome: an axiomatic model. **89j:90294**
Hämäläinen, R. P. *see* **Ehtamo, H.; et al., 89j:90292**
Holzman, Ron Sub-core solutions of the problem of strong implementation. **89g:90251**
Ichiishi, Tatsuro Strong equilibria. **89a:90166**
— Strong equilibria of a repeated game with randomized strategies. **89f:90207**
Kaitala, V. *see* **Ehtamo, H.; et al., 89j:90292**
Kalchev, B. D. Some equilibria in a cooperative differential game without side payoffs. (Russian) **89f:90208**
Keane, Michael *see* **Charnes, A.; et al., 89e:90232**
Kikuta, Kensaku A condition for a game to be convex. **89k:90191**
Kondrat′ev, A. I. Continual strategic models. **89i:90100**
Le Breton, M. (*with* Salles, M.) On the generic emptiness of the local core of voting games. **89a:90167**
— On the core of voting games. **89a:90168**
Legut, Jerzy A game of fair division with continuum of players. **89a:90169**
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Lensberg, Terje (*with* Thomson, William L.) Characterizing the Nash bargaining solution without Pareto-optimality. **89g:90252**
Levine, David K. *see* **Fudenberg, Drew, 89c:90115**
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Meister, G. Characterization of coalitionally ordered games. (German summary) **89f:90211**
Mertens, J.-F. The Shapley value in the nondifferentiable case. **89g:90253**
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Ostmann, A. On the minimal representation of homogeneous games. **89a:90170**
Partyka, A. *see* **Lukasik, S., 89b:90242**
Pecherskiĭ, S. L. (*with* Rubinov, A. M.) Dynamic Pareto optimality, superlinear multivalued mappings and cooperative games. (Russian. English and Lithuanian summaries) **89a:90171**
Peleg, B. Cores and capacities of compound simple games. **89a:90172**
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Rosenmüller, Joachim Homogeneous games: recursive structure and computation. **89c:90117**
— The rôle of nondegeneracy and homogeneity in n-person game theory: an equivalence theorem. **89h:90268**
Rousseau, John James *see* **Charnes, A.; et al., 89e:90232**
Rubinov, A. M. *see* **Pecherskiĭ, S. L., 89a:90171**
Ruusunen, J. *see* **Ehtamo, H.; et al., 89j:90292**
Sakawa, Masatoshi A solution concept in a cooperative n-person game based on the complaint differences and its application. **89h:90269**
Salles, M. *see* **Le Breton, M., 89a:90167**
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– *see also* **Curiel, I. J.; et al., 89b:90241**
ukhtasinov, M. Solution of an n-person cooperative game with discriminated players. (Russian) **89c:90118**
Wang, Jian Hua^2 An introduction to cooperative games. (Chinese) **89h:90270**
Williams, Michael A. An empirical test of cooperative game solution concepts. **89c:90119**
Yamada, Atsushi Cooperative fuzzy game with side-payments. **89j:90296**
Zame, William R. *see* **Bennett, E., 89j:90290**
Zamir, Shmuel *see* **Gérard-Varet, Louis-André, 89d:90253**

Items with secondary classifications in 90D12

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Carreras Escobar, Francesc (*with* Owen, Guillermo) Evaluation of the Catalonian Parliament, 1980–1984. **89b:90256**
Ceppitelli, Rita *see* **Bardaro, Carlo, 89h:90260**
Chen, Tu Yun (*with* Zheng, Ming Zhu) Orderings based on paired comparisons. (Chinese. English summary) **89m:92054**
Chikriĭ, A. A. *see* **Prokopovich, P. V., 89d:90267**
Danilov, V. I. (*with* Sot·skov, A. I.) Stable blockings in mechanisms of social choice. (Russian) **89d:90020**
– (*with* Sot·skov, A. I.) Steady states and core theorems. (Russian) **89j:90047**
Farrell, Joseph (*with* Scotchmer, Suzanne) Partnerships. **89d:90015**
Gaidov, S. D. Two cooperative solutions in stochastic differential games. **89g:93091**
Harsanyi, John C. ★ Rational behavior and bargaining equilibrium in games and social situations. **89e:90032**
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van Maaren, Hans Generalized pivoting and coalitions. **89g:90012**
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Marakulin, V. M. *see* **Makarov, Valeriĭ Leonidovich; et al., 89d:90052**
Matwin, Stan *see* **Kersten, Gregory E.; et al.,** (Not in MR)
McKenzie, Lionel W. A limit theorem on the core. **89m:90035**
Michalowski, Wojtek *see* **Kersten, Gregory E.; et al.,** (Not in MR)
Mikhaĭlov, N. I. Equilibrium situation in differential games with infinitely many players. **89a:90178**
Moulin, Hervé A core selection for regulating a single-output monopoly. **89h:90034**
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Owen, Guillermo *see* **Carreras Escobar, Francesc, 89b:90256**
Petrosyan, L. A. (*with* Shiryaev, V. D.) ★ Иерархические игры. (Russian) [Hierarchical games] **89b:90255**
Prokopovich, P. V. (*with* Chikriĭ, A. A.) Interaction of groups of controllable objects. (Russian) **89d:90267**
Radner, Roy Can bounded rationality resolve the prisoners' dilemma? **89a:90163**
Raub, Werner (*with* Voss, Thomas) Conditions for cooperation in problematic social situations. (*see* **89d:90019**)
Sastry, P. S. *see* **Thathachar, Mandayam A. L., 89a:68187**
(Scafuri, Allen J.) *see* **Aumann, Robert J., 89b:90027**
Scotchmer, Suzanne *see* **Farrell, Joseph, 89d:90015**
Shamandy, Ali (*with* Varga, Zoltán) On an infinite-person dynamic coalition game. **89k:90193**
Shiryaev, V. D. *see* **Petrosyan, L. A., 89b:90255**
Sot·skov, A. I. *see* **Danilov, V. I., 89d:90020** *and* **89j:90047**
Sundaram, Rangarajan *see* **Lewis, Alain A., 89j:90310**
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Voss, Thomas *see* **Raub, Werner, (89d:90019)**
(Yannelis, Nicholas C.) *see* **Aumann, Robert J., 89b:90027**
Zheng, Ming Zhu *see* **Chen, Tu Yun, 89m:92054**

90D13 Infinite games

Abreu, Dilip On the theory of infinitely repeated games with discounting. **89b:90243**
Jeyakumar, V. Nonconvex infinite games. **89g:90254**
Le Breton, M. On the generic nonexistence of pure strategy Nash equilibria in continuous games. **89a:90174**
Neyman, Abraham Weighted majority games have asymptotic value. **89j:90297**
Ruckle, William H. The linearizing projection and its application to mathematical economics. **89d:90254**
Shamandy, Ali (*with* Varga, Zoltán) On an infinite-person dynamic coalition game. **89k:90193**
Simon, Leo K. Games with discontinuous payoffs. **89j:90298**
Varga, Zoltán *see* **Shamandy, Ali, 89k:90193**

Items with secondary classifications in 90D13

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Baston, V. J. (*with* Bostock, F. A.) Deception games. **89g:90243**
Bostock, F. A. *see* **Baston, V. J., 89g:90243**
van Damme, Eric ★ Stability and perfection of Nash equilibria. **89f:90205**
Gal, Shmuel *see* **Alpern, Steve, 89k:90185**
Legut, Jerzy A game of fair division with continuum of players. **89a:90169**
Yamada, Atsushi Cooperative fuzzy game with side-payments. **89j:90296**
Yo, Yong Ho Games with the same sets of equilibrium points as convex games. (Korean. English summary) **89j:90289**

90D15 Multistage games, stochastic [see also 93E05]

Asch, Peter (*with* Quandt, Richard E.) Betting bias in "exotic" bets. **89j:90299**
Bernhard, Pierre (*with* Colomb, Annie-Laure) Saddle point conditions for a class of stochastic dynamical games with imperfect information. **89a:90175**
Colomb, Annie-Laure *see* **Bernhard, Pierre, 89a:90175**
Domanskiĭ, V. K. Stochastic games. (Russian) **89h:90271**
Eshel, Ilan (*with* Weinshall, Daphna) Cooperation in a repeated game with random payment function. **89g:90255**
Gong, Xing Long *see* **Zhang, Sheng Kai,** (Not in MR)
Gurvich, V. A. A stochastic game with complete information that does not have equilibrium states in pure stationary strategies. **89g:90256**
Heath, David C. (*with* Kertz, Robert P.) Leaving an interval in limited playing time. **89i:90102**
Kalai, Ehud (*with* Samet, D.; Stanford, William) A note on reactive equilibria in the discounted prisoner's dilemma and associated games. **89k:90194**
Kertz, Robert P. *see* **Heath, David C., 89i:90102**
Nabiałek, Ireneusz Functional configuration and degrees of engagement. (Russian summary) **89e:90234**
Papavassilopoulos, G. P. *see* **Tu, M., 89f:90213**
Quandt, Richard E. *see* **Asch, Peter, 89j:90299**
Samet, D. *see* **Kalai, Ehud; et al., 89k:90194**
Stanford, William *see* **Kalai, Ehud; et al., 89k:90194**
Thuijsman, Frank Non-zerosum stochastic games. **89a:90176**
Tu, M. (*with* Papavassilopoulos, G. P.) Performance versus informativeness in linear-quadratic Gaussian noncooperative games. **89f:90213**
Weinshall, Daphna *see* **Eshel, Ilan, 89g:90255**
Zhang, Sheng Kai (*with* Gong, Xing Long) ZS values of stochastic alliance strategies. (Chinese) (Not in MR)

Items with secondary classifications in 90D15

Alj, A. *see* **Breton, M.; et al., 89j:90278**
Breton, M. (*with* Alj, A.; Haurie, A.) Sequential Stackelberg equilibria in two-person games. **89j:90278**
Chang, Tsu Shuan *see* **Luh, Peter B.; et al., 89c:90024**
Culik, Karel, II Variations of the firing squad problem and applications. **89k:68109**
Forges, Françoise Communication equilibria in repeated games with incomplete information. **89e:90223**
Gaidov, S. D. Berge-equilibrium in stochastic differential games. **89d:93092**
Gomes, Luiz F. A. M. On stochastic games related to traffic equilibration. **89f:90061**
Grushko, A. N. A game-theoretic method for constructing an optimal hierarchical structure. (Russian) **89i:93004**
Haurie, A. *see* **Breton, M.; et al., 89j:90278**
Jeffrey, Richard Biting the Bayesian bullet: Zeckhauser's problem. **89h:90282**
Jovanovic, Boyan (*with* Rosenthal, Robert W.) Anonymous sequential games. **89e:90242**
Krasovskiĭ, A. N. Construction of mixed strategies on the basis of stochastic programs. **89j:93142**
Luh, Peter B. (*with* Chang, Tsu Shuan; Ning, T.) Pricing problems with a continuum of customers as stochastic Stackelberg games. **89c:90024**
Mazoyer, Jacques An overview of the firing squad synchronization problem. (*see* **89c:68078**)
Mertens, J.-F. Repeated games. **89e:90230**
Móri, Tamás F. Hitting a small group of middle ranked candidates in the secretary problem. **89m:60100**
Ning, T. *see* **Luh, Peter B.; et al., 89c:90024**
Rosenthal, Robert W. *see* **Jovanovic, Boyan, 89e:90242**
Sakaguchi, Minoru Some simple models of duels with a random termination time. **89f:90190**
Vrieze, Koos Zero-sum stochastic games. **89f:90203**
Wang, Ann-Ling Sek Chai Tan. (Malay summary) **89j:90313**

90D20 Multistage games, recursive

Benoit, J.-P. A nonequilibrium analysis of the finitely-repeated prisoner's dilemma. **89j:90300**
Bunakov, A. È. (*with* Kononenko, A. F.; Chistyakov, Yu. E.) Hierarchical differential (dynamic) games and their applications. (Russian) **89f:90214**
Chentsov, A. G. *see* **Ivanov, V. M., 89c:90120**
Chistyakov, Yu. E. *see* **Bunakov, A. È.; et al., 89f:90214**
Enns, E. G. (*with* Ferenstein, E. Z.) On a multiperson time-sequential game with priorities. **89b:90244**
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Ferenstein, E. Z. *see* **Enns, E. G., 89b:90244**
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Ivanov, V. M. (*with* Chentsov, A. G.) Control of discrete systems on an infinite time interval. (Russian) **89c:90120**

Khachatryan, R. V. Dynamically stable optimality principles in multicriterial multistage games. (Russian. Armenian summary) **89g:90257**
Kononenko, A. F. *see* **Bunakov, A. È.; et al., 89f:90214**
Scott, Dan M. (*with* Sherman, Gary J.) The great shootout. (Not in MR)
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Sushkin, V. V. Nash-equilibrium states in a multistage n-person positional game. (Russian) **89c:90121**

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Abreu, Dilip On the theory of infinitely repeated games with discounting. **89b:90243**
Bard, Jonathan F. Convex two-level optimization. **89d:90212**
Greenberg, Joseph Payoffs in generalized sequential bargaining games. **89j:90309**
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Stanford, William *see* **Kalai, Ehud, 89e:90227**
de Villiers, R. *see* **Yavin, Y., 89k:90202**
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90D25 Differential games

Abou-Kandil, H. *see* **Jódar, Lucas, 89e:90236**
Al'brekht, È. G. (*with* Samoĭlova, T. I.) Extremal aiming in game-theoretic guidance problems when the domains of control depend on the phase coordinates. (Russian) **89k:90195**
Azamov, A. A. Semistability and duality in the theory of the Pontryagin alternating integral. **89e:90235**
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Chentsov, A. G. Game-theoretic controllable systems. (Russian) **89f:90216**
Ermolov, A. N. Differential games in mixed strategies. **89j:90301**
Èshmamatov, B. An evasion problem in linear differential games. (Russian) **89h:90272**
Gabrielyan, M. S. Stable sets in differential games with m objective sets with variable dynamics. (Russian. Armenian summary) (Not in MR)
Gaidov, S. D. Pareto-optimality in stochastic differential games. (Russian summary) **89f:90217**
Gajic, Z. *see* **Petrović, B., 89f:90222**
Garnaeva, G. Yu. *see* **Malafeev, O. A., 89d:90258**
Gasanenko, V. A. (*with* Ostapenko, V. V.) Control reliability in a linear differential game with a fixed termination time. (Russian) **89d:90256**
Ginchev, Ivan Existence of equilibrium points of a differential game with a retarded dynamical system. **89c:90123**
Gorbachuk, V. M. Strange attractors in n-person differential games. (Russian) **89f:90218**
Grabovoĭ, I. P. (*with* Ostapenko, V. V.) Integration of linear multivalued mappings. (Russian) **89m:90177**
Gradus, Raymond H. J. M. The reaction of the firm on governmental policy: a game-theoretical approach. (*see* **89d:90002**)
Huang, Xiao Yuan Study of a noncooperative differential game model of market prices. (Chinese. English summary) **89f:90219**
Ishida, Tsutomu Three-level incentive schemes using follower's strategies in differential games. **89a:90177**
Jacobs, E. E. *see* **Yavin, Y., 89h:90275**
Järmark, Bernt Optimal turn of an aircraft. (*see* **89b:93010**)
Jódar, Lucas (*with* Abou-Kandil, H.) Solution of coupled Riccati equations occurring in Nash games. **89e:90236**
Kleĭmenov, A. F. On a hierarchical three-level differential game. (Russian) **89d:90257**
— Modified Stackelberg strategies for hierarchical differential two-person games. (Russian summary) **89b:90247**
(Kotz, S.) *see* **Krasovskiĭ, N. N., 89b:90248**
Krasovskiĭ, N. N. On synthesis in a differential game. **89f:90220**
— (*with* Subbotin, A. I.) ★ Game-theoretical control problems. **89b:90248**
Lee, E. S. *see* **Natarajan, T.; et al., 89a:90179**
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— Equilibrium for multicriterial control processes. (Russian) **89d:90259**
Marchal, C. Reduction of deterministic differential games to problems of optimization: the method of successive approximate strategies. **89e:90237**
Mehlmann, Alexander ★ Applied differential games. **89j:90302**
Mikaelyan, O. S. An alternative assertion for a case of a differential game for m target sets. (Russian. Armenian summary) **89h:90273**
— Comparative analysis of Nash equilibrium and a Pareto-optimal set in a nonantagonistic game with several objective points. (Russian. English and Armenian summaries) **89g:90259**
Mikhaĭlov, N. I. Equilibrium situation in differential games with infinitely many players. **89a:90178**
Miloh, T. *see* **Yavin, Y.; et al.**, (Not in MR)
Mishev, D. P. Strong equilibrium in a positional differential game. (Russian. English and Bulgarian summaries) **89b:90249**
Mukhsinov, È. M. Linear differential games of evasion in a Hilbert space. (Russian. Tajiki summary) **89f:90221**
Naadimuthu, G. *see* **Natarajan, T.; et al., 89a:90179**
Natarajan, T. (*with* Naadimuthu, G.; Pierre, Donald A.; Lee, E. S.) Advantageous strategies in differential games for a class of suboptimal control laws. **89a:90179**
Ostapenko, V. V. Control of the motion of a pendulum in a game-theoretic situation. **89k:90196**
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Pak, I. T. (*with* Yugaĭ, L. P.) A simplified sufficient condition in a linear differential game with delay in information. (Russian) (*see* **89c:00022**)
Patsko, V. S. *see* **Botkin, N. D., 89g:90258** *and* **Zarkh, M. A., 89g:90260**
Petersen, Ian R. Some new results on algebraic Riccati equations arising in linear quadratic differential games and the stabilization of uncertain linear systems. **89h:90274**
Petrović, B. (*with* Gajic, Z.) Recursive solution of linear-quadratic Nash games for weakly interconnected systems. **89f:90222**
Pierre, Donald A. *see* **Natarajan, T.; et al., 89a:90179**
Ricci, Gianni A differential game of armaments' race: models and simulations. (*see* **89d:90002**)
Ruckle, William H. The linearizing projection, global theories. **89f:90223**
Samoĭlova, T. I. *see* **Al'brekht, È. G., 89k:90195**
Subbotin, A. I. *see* **Krasovskiĭ, N. N., 89b:90248**
Tukhtasinov, M. On a class of n-person linear differential games. (Russian) (*see* **89c:00022**)
Ukhobotov, V. I. A stable bridge in a game with vectograms that depend linearly on given sets. **89k:90197**
de Villiers, R. *see* **Yavin, Y.; et al.**, (Not in MR)
Vyazgin, V. A. Differential games with variable observation capacities of partners. **89f:90224**
Yaksubaev, K. D. Isolation of a causal selector from a multivalued mapping. (Russian) **89d:90260**
Yavin, Y. (*with* Jacobs, E. E.) Reaching a protected target site under detection-time constraints. **89h:90275**
— (*with* Miloh, T.; de Villiers, R.) The probability of penetrating a protected site. (Not in MR)
Yugaĭ, L. P. *see* **Pak, I. T.**, (**89c:00022**)
Zakharov, V. V. Regularization and dynamic stability of the solutions of hierarchical differential games. **89k:90198**
Zarkh, M. A. (*with* Patsko, V. S.) The second player's strategy in a linear differential game. **89g:90260**

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Barron, E. N. (*with* Jensen, Robert) Total risk aversion, stochastic optimal control, and differential games. **89k:90203**
Belbas, S. A. The dynamic programming equations for stochastic games with discrete actions. **89g:93089**
Bunakov, A. È. (*with* Kononenko, A. F.; Chistyakov, Yu. E.) Hierarchical differential (dynamic) games and their applications. (Russian) **89f:90214**
Cassandras, Christos G. Optimal transmission and jamming strategies in a communication channel. **89a:94004**
Chernous'ko, F. L. ★ Оценивание фазового состояния динамических систем. (Russian) [Estimation of the phase state of dynamical systems] **89k:49028**
Chikriĭ, A. A. (*with* Kalashnikova, S. F.) Pursuit by a controllable object of a group of evading objects. (Russian. English summary) **89b:90250**
Chikriĭ, G. Ts. A class of controllable processes. (Russian) **89m:90089**
Chistyakov, Yu. E. *see* **Bunakov, A. È.; et al., 89f:90214**
Cho, Yu Je Research of a pursuit differential game in Hilbert space. (Korean. English summary) (Not in MR)
— Research of a pursuit differential game in Hilbert space. II. (Korean. English summary) (Not in MR)
Ehtamo, H. (*with* Ruusunen, J.; Kaitala, V.; Hämäläinen, R. P.) Solution for a dynamic bargaining problem with an application to resource management. **89j:90292**
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Fomenko, A. V. Interpolation of strategies for differential games under conditions of uncertainty. (Russian. English summary) **89e:90238**
Forte, I. (*with* Shinar, J.) Can a mixed guidance strategy improve missile performance? **89j:90304**
Gospodinov, M. G. A method for forming coalitions in a differential-difference game. (Russian) **89h:90267**
Grigorenko, N. L. A problem of pursuit in n-person differential games. **89d:90263**
Hämäläinen, R. P. *see* **Ehtamo, H.; et al., 89j:90292**
Jensen, Robert *see* **Barron, E. N., 89k:90203**
Kaitala, V. *see* **Ehtamo, H.; et al., 89j:90292**
Kalashnikova, S. F. *see* **Chikriĭ, A. A., 89b:90250**
Kalchev, B. D. Some equilibria in a cooperative differential game without side payoffs. (Russian) **89f:90208**
Kleĭmenov, A. F. Investigation of a hierarchical three-level differential game. (Russian) **89a:90188**
Kononenko, A. F. *see* **Bunakov, A. È.; et al., 89f:90214**
Konstantinov, G. N. Sufficient conditions for optimality with the Krotov vector function. II. (Russian. English summary) **89g:49036**
Kozheko, L. G. (*with* Loshkareva, I. V.) A problem of the correction of a guided process described by a nonstationary differential equation. (Russian) **89g:49017**
Krasovskiĭ, A. N. Construction of mixed strategies on the basis of stochastic programs. **89j:93142**
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— Optimization of the ensured result for the dynamical systems. **89d:49025**
Loshkareva, I. V. *see* **Kozheko, L. G., 89g:49017**

Mamedov, M. B. σ-equilibrium situations in nonantagonistic differential games. (Russian) **89j:90287**
Medhin, Negash G. (*with* Sambandham, M.) Mixed min-max optimization problem with restrictions. **89d:49026**
Mohr, Ernst^2 Appropriation of common access natural resources through exploration: the relevance of the open-loop concept. **89f:90032**
Novoselov, V. S. A model for an antagonistic game in a gravitational field. (Russian) **89h:90285**
Petrosyan, L. A. (*with* Shiryaev, V. D.) ★ Иерархические игры. (Russian) [Hierarchical games] **89b:90255**
— (*with* Zenkevich, N. A.) ★ **Оптимальный поиск в условиях конфликта.** (Russian) [Optimal search under conditions of conflict] **89j:90281**
Pinker, Aron Applications of control theory methods to warfare problems. **89m:90188**
Ruusunen, J. *see* **Ehtamo, H.; et al., 89j:90292**
Sagatelyan, K. V. A probabilistic model of decision making. (Russian. English and Armenian summaries) **89f:90111**
Sambandham, M. *see* **Medhin, Negash G., 89d:49026**
Shinar, J. *see* **Forte, I., 89j:90304**
Shiryaev, V. D. *see* **Petrosyan, L. A., 89b:90255**
Sorger, Gerhard Competitive dynamic advertising. A modification of the case game. **89j:90069**
Vincent, Thomas L. Estimating projections of the playable set. **89m:90182**
Vyazgin, V. A. On the rationality of solutions of nonantagonistic differential games. (Russian) **89d:90249**
Yan, Yang Kui Pursuit for linear differential games. (Chinese. English summary) **89j:90307**
Zenkevich, N. A. *see* **Petrosyan, L. A., 89j:90281**

90D26 Pursuit and evasion games

Al′brekht, È. G. Optimal strategies for approach and evasion. (Russian) **89a:90180**
Azamov, A. A. On an alternative for pursuit-evasion games in an infinite time interval. **89h:90276**
Baĭdosov, V. A. An evasion problem and disjunctive pencils in an abstract dynamic game. (Russian) **89a:90181**
Barsegyan, V. R. A differential pursuit game with prescribed duration in a gravitational field. (Russian. English summary) **89h:90277**
Baston, V. J. (*with* Bostock, F. A.) Discrete hamstrung squad car games. **89d:90261**
Ben-Asher, Joseph (*with* Cliff, Eugene M.; Kelley, Henry J.) Optimal evasion with a path-angle constraint and against two pursuers. **89j:90303**
Bostock, F. A. *see* **Baston, V. J., 89d:90261**
Chikriĭ, A. A. (*with* Kalashnikova, S. F.) Pursuit by a controllable object of a group of evading objects. (Russian. English summary) **89b:90250**
— *see also* **Khomin, A. V., 89c:90124** *and* **Prokopovich, P. V., 89d:90267**
Chikriĭ, G. Ts. A problem of search for controllable objects. (Russian) **89k:90199**
Cho, Yu Je Research of a pursuit differential game in Hilbert space. (Korean. English summary) (Not in MR)
— Research of a pursuit differential game in Hilbert space. II. (Korean. English summary) (Not in MR)
Cliff, Eugene M. *see* **Ben-Asher, Joseph; et al., 89j:90303**
Demidov, K. V. r-multiple capture in differential games with a variable structure controlled by the pursuers. (Russian) **89d:90262**
Demin, R. A. A pursuit problem in linear differential games with integral constraints. (Russian) **89m:90178**
Đinh Sĩ Đại *see* **Phan Huy Khai, 89c:90126**
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Fomenko, A. V. Interpolation of strategies for differential games under conditions of uncertainty. (Russian. English summary) **89e:90238**
Forsling, Gōran (*with* Järmark, Bernt) Optimal fuselage aiming of a modern fighter aircraft. (*see* **89b:93010**)
Forte, I. (*with* Shinar, J.) Can a mixed guidance strategy improve missile performance? **89j:90304**
Gabrielyan, M. S. Minimax aiming in a properly linear system with m objective sets. (Russian. Armenian summary) (Not in MR)
Garnaev, A. Yu. Solution of a problem of search in a domain. (Russian. English summary) **89a:90182**
Ghose, D. *see* **Prasad, U. R., 89m:90180**
Grigorenko, N. L. Linear differential games with incomplete information. (Russian) **89a:90183**
— A problem of pursuit in n-person differential games. **89d:90263**
Hamidoune, Yahya Ould On a pursuit game on Cayley digraphs. **89d:90264**
Hu, Ning (*with* Zhang, Si Ying) A problem of collision avoidance between ships. (Chinese. English summary) **89g:90261**
Ibragimov, G. I. *see* **Rikhsiev, B. B., 89b:90252**
Järmark, Bernt *see* **Forsling, Gōran**, (**89b:93010**)
Kakhkharov, Ya. M. A problem of simple pursuit with a collective goal. (Russian) **89d:90265**
Kalashnikova, S. F. *see* **Chikriĭ, A. A., 89b:90250**
Kelley, Henry J. *see* **Ben-Asher, Joseph; et al., 89j:90303**
Khomin, A. V. (*with* Chikriĭ, A. A.) A discrete pursuit problem. (Russian) **89c:90124**
Khripunov, A. P. *see* **Taras′ev, A. M.; et al., 89h:90280**
Konovalov, A. P. Nonlinear differential games of evasion with delay. (Russian. English summary) **89e:90239**
Kryakovskiĭ, B. S. *see* **Zheleznov, V. S.; et al., 89a:90186**
Leros, A. P. *see* **Siouris, G. M., 89h:90279**
Linder, N. V. An evasion problem. (Russian) **89b:90251**
Marchenko, Vladimir Matveevich (*with* V″lkova, Yu. S.) Game-theoretic controllability problems for linear discrete systems. (Russian. English summary) **89c:90125**
Maslov, E. P. *see* **Zheleznov, V. S.; et al., 89a:90186**
Menon, P. K. A. Short-range nonlinear feedback strategies for aircraft pursuit-evasion. **89m:90179**
Nguen Kong Khoan An n-person linear differential game with general integral constraints. (Russian. English and Azerbaijani summaries) **89d:90266**
Olsder, Geert J. (*with* Papavassilopoulos, G. P.) About when to use the searchlight. **89k:90200**
— (*with* Papavassilopoulos, G. P.) A Markov chain game with dynamic information. **89k:90201**
Ostapenko, V. V. The method of H-convex sets in differential games with nonfixed termination time. **89h:90278**
Papavassilopoulos, G. P. *see* **Olsder, Geert J., 89k:90200** *and* **89k:90201**
Pashkov, A. G. Comparison of the solutions of linear and nonlinear positional differential games of encounter. **89f:90225**
Phan Huy Khai (*with* Đinh Sĩ Đại) Problems of pursuit by several objects in some classes of discrete games with integral constraints. (Russian) **89c:90126**
Prasad, U. R. (*with* Ghose, D.) Formulation and analysis of combat problems as zero-sum bicriterion differential games. **89m:90180**
Prokopovich, P. V. (*with* Chikriĭ, A. A.) Interaction of groups of controllable objects. (Russian) **89d:90267**
Rakhmanov, A. T. On a problem of pursuit with integral constraints on the controls. **89d:90268**
— On a pursuit problem in linear differential games. (Russian) **89m:90181**
Rikhsiev, B. B. (*with* Ibragimov, G. I.) On a problem of group pursuit with fixed termination time. (Russian) **89b:90252**
Rymaruk, V. I. A problem on the search for the most preferred strategy. (Russian) **89j:90305**
Shinar, J. *see* **Forte, I., 89j:90304**
Shishkina, N. B. On a problem of pursuit by position in a differential game with several pursuers. (Russian. English summary) **89a:90184**
Siouris, G. M. (*with* Leros, A. P.) Minimum-time intercept guidance for tactical missiles. **89h:90279**
Taras′ev, A. M. (*with* Ushakov, V. N.; Khripunov, A. P.) On a computational algorithm for solving game control problems. **89h:90280**
Tomskiĭ, G. V. Qualitative differential games in a class of E-strategies. **89j:90306**
Ukhobotov, V. I. A type of linear game with mixed constraints on the controls. **89g:90262**
Ushakov, V. N. *see* **Taras′ev, A. M.; et al., 89h:90280**
de Villiers, R. *see* **Yavin, Y., 89k:90202**
Vincent, Thomas L. Estimating projections of the playable set. **89m:90182**
V″lkova, Yu. S. *see* **Marchenko, Vladimir Matveevich, 89c:90125**
Wu, Han Sheng *see* **Zhang, Si Ying, 89g:90265**
Yaksubaev, K. D. Necessity and sufficiency of the third integral for the completion of a game in a class of positional strategies. (Russian) **89a:90185**
Yan, Yang Kui Pursuit for linear differential games. (Chinese. English summary) **89j:90307**
Yashina, M. V. A geometric method for solving pursuit games in order to obtain a maximal result. **89j:90308**
Yavin, Y. (*with* de Villiers, R.) Stochastic pursuit-evasion differential games in 3D. **89k:90202**
Yong, Jiong Min On the evadable sets of differential evasion games. **89g:90263**
— Evasion with weak superiority. **89i:90103**
— A sufficient condition for the evadability of differential evasion games. **89f:90226**
— On differential evasion games. **89g:90264**
— On differential pursuit games. **89m:90183**
Zhang, Si Ying (*with* Wu, Han Sheng) The partial capture region for a finite time interval in differential games. (Chinese. English summary) **89g:90265**
— *see also* **Hu, Ning, 89g:90261**
Zheleznov, V. S. (*with* Kryakovskiĭ, B. S.; Maslov, E. P.) The simplest differential game with a choice of time in mixed strategies. (Russian. English summary) **89a:90186**

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Abduganiev, A. A. A simplified scheme for constructing a Pontryagin alternating integral. (Russian) **89g:26007**
Abramowski, S. (*with* Müller, Heinrich Augustinus) Collision avoidance for nonrigid objects. (German summary) **89h:68140**
Azamov, A. A. Semistability and duality in the theory of the Pontryagin alternating integral. **89e:90235**
Baston, V. J. (*with* Bostock, F. A.) An evasion game with barriers. **89k:90186**
Berkovitz, Leonard D. Differential games of survival. **89c:90122**
Bernhard, Pierre (*with* Colomb, Annie-Laure) Saddle point conditions for a class of stochastic dynamical games with imperfect information. **89a:90175**
Bostock, F. A. *see* **Baston, V. J., 89k:90186**
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Cohen, Joel E. *see* **Chung, F. R. K.; et al., 89k:05069**
Colomb, Annie-Laure *see* **Bernhard, Pierre, 89a:90175**
Èshmamatov, B. An evasion problem in linear differential games. (Russian) **89h:90272**
Garey, M. R. *see* **Megiddo, Nimrod; et al., 89d:68030**
Glushchenko, V. E. Application of the search principles of group decisions in multicriterial problems to systems for the recognition of moving objects. (Russian) (*see* **89h:00001**)
Graham, R. L. *see* **Chung, F. R. K.; et al., 89k:05069**
Hakimi, S. Louis *see* **Megiddo, Nimrod; et al., 89d:68030**
Harary, Frank (*with* Plochinski, Ken) On degree achievement and avoidance games for graphs. **89i:05254**
Hōzaki, Ryusuke *see* **Iida, Kōji, 89j:90154**
Iida, Kōji (*with* Hōzaki, Ryusuke) The optimal search plan for a moving target minimizing the expected risk. **89j:90154**
Jing, Yuan Wei (*with* Zhang, Si Ying) The solution to a kind of Stackelberg game systems with multi-follower: coordinative and incentive. **89e:90225**
Johnson, David Stifler *see* **Megiddo, Nimrod; et al., 89d:68030**
Kalashnikova, S. F. *see* **Chikriĭ, A. A.; et al.**, (Not in MR)

Lumelsky, Vladimir J. (*with* Stepanov, Alexander A.) Path-planning strategies for a point mobile automaton moving amidst unknown obstacles of arbitrary shape. **89h:68146**
Megiddo, Nimrod (*with* Hakimi, S. Louis; Garey, M. R.; Johnson, David Stifler; Papadimitriou, Christos H.) The complexity of searching a graph. **89d:68030**
Menaldi, José-Luis (*with* Rofman, Edmundo) An algorithm to compute the viscosity solution of the Hamilton-Jacobi-Bellman equation. **89h:49024**
Miloh, T. *see* **de Villiers, R.; et al., 89k:93192**
Mukhsinov, Ė. M. Linear differential games of evasion in a Hilbert space. (Russian. Tajiki summary) **89f:90221**
Müller, Heinrich Augustinus *see* **Abramowski, S., 89h:68140**
Mycielski, Jan Theories of pursuit and evasion. **89h:49006**
Ó'Dúnlaing, Colm Motion planning with inertial constraints. **89f:68066**
Papadimitriou, Christos H. *see* **Megiddo, Nimrod; et al., 89d:68030**
Petrosyan, L. A. (*with* Shiryaev, V. D.) ★ Иерархические игры. (Russian) [Hierarchical games] **89b:90255**
Petrov, Nikolaĭ Nikolaevich Problems of pursuit on the 1-skeleton of a cube. (Russian) **89a:49013**
Plochinski, Ken *see* **Harary, Frank, 89i:05254**
Rofman, Edmundo *see* **Menaldi, José-Luis, 89h:49024**
Shiryaev, V. D. *see* **Petrosyan, L. A., 89b:90255**
Sobolenko, L. A. *see* **Chikriĭ, A. A.; et al.,** (Not in MR)
Stepanov, Alexander A. *see* **Lumelsky, Vladimir J., 89h:68146**
Tönsing, H. *see* **Yavin, Y., 89j:93103**
Ukhobotov, V. I. A stable bridge in a game with vectograms that depend linearly on given sets. **89k:90197**
de Villiers, R. (*with* Miloh, T.; Yavin, Y.) Stochastic pursuit-evasion differential games in 3D: the case of variable speed. **89k:93192**
Yavin, Y. (*with* Tönsing, H.) Game of two cars with containment probability as cost function. **89j:93103**
— Stochastic two-target pursuit-evasion differential games in the plane. **89c:93068**
— *see also* **de Villiers, R.; et al., 89k:93192**
Zhang, Si Ying *see* **Jing, Yuan Wei, 89e:90225**

90D30 Utility theory [see also 90A10]

Barron, E. N. (*with* Jensen, Robert) Total risk aversion, stochastic optimal control, and differential games. **89k:90203**
Greenberg, Joseph Payoffs in generalized sequential bargaining games. **89j:90309**
Ichiishi, Tatsuro Core-like solutions for games with probabilistic choice of strategies. **89k:90204**
Jensen, Robert *see* **Barron, E. N., 89k:90203**
Kalai, Ehud Solutions to the bargaining problem. **89b:90253**
Lewis, Alain A. (*with* Sundaram, Rangarajan) An alternate approach to axiomatizations of the von Neumann/Morgenstern characteristic function. **89j:90310**
Patrone, F. (*with* Torre, Anna) Genericity results for convex functions with applications to games and production theory. (Italian summary) **89m:90184**
Sundaram, Rangarajan *see* **Lewis, Alain A., 89j:90310**
Sycara, Katia Utility theory in conflict resolution. **89k:90205**
Torre, Anna *see* **Patrone, F., 89m:90184**

Items with secondary classifications in 90D30

Bordley, Robert F. An additive group utility for a fund manager. **89g:90036**
Cowen, Tyler Normative population theory. (Not in MR)
Fishburn, Peter C. ★ Nonlinear preference and utility theory. **89k:90022**
Gradus, Raymond H. J. M. The reaction of the firm on governmental policy: a game-theoretical approach. (*see* **89d:90002**)
Karni, Edi On the equivalence between descending bid auctions and first price sealed bid auctions. **89m:90023**
Ng, Yew Kwang Hurka's gamble and Methuselah's paradox: a response to Cowen on normative population theory. (Not in MR)
Radner, Roy Repeated moral hazard with low discount rates. **89e:90059**

90D35 Decision theory [see also 62Cxx, 90A05, 90B50]

Ancker, C. J., Jr. (*with* Gafarian, A. V.) Erratum: "The validity of assumptions underlying current uses of Lanchester attrition rates" [Naval Res. Logist. **34** (1987), no. 4, 505–533; MR 88f:90216]. **89h:90281**
Arakelyan, A. A. Application of an algebra of binary relations to a core and to the decision of nonreflexive relations. (Russian. Armenian summary) **89b:90254**
Bordley, Robert F. The cost of delayed lottery resolution. **89d:90269**
Bronisz, Piotr (*with* Kruś, Lech) Interactive procedures for multicriteria decision support in bargaining problem. **89j:90311**
Chatterjee, Kalyan (*with* Harrison, Terry P.) The value of information in competitive bidding. **89e:90240**
Cook, Wade D. (*with* Golan, Igal; Kress, Moshe) Heuristics for ranking players in a round robin tournament. **89d:90270**
Diekmann, Andreas Volunteer's dilemma. A social trap without a dominant strategy and some empirical results. (*see* **89d:90019**)
— *see also* **Paterson, Iain, 89g:90266**
Gafarian, A. V. *see* **Ancker, C. J., Jr., 89h:90281**
Golan, Igal *see* **Cook, Wade D.; et al., 89d:90270**
Harrison, Terry P. *see* **Chatterjee, Kalyan, 89e:90240**
Hazen, Gordon B. Differential characterizations of nonconical dominance in multiple objective decision making. **89c:90127**
Jeffrey, Richard Biting the Bayesian bullet: Zeckhauser's problem. **89h:90282**
Kantor, M. J. *see* **Kantor, P. B., 89j:90312**
Kantor, P. B. (*with* Kantor, M. J.) Decision making with barely any information: the role of mixed strategies. **89j:90312**
Kersten, Gregory E. (*with* Michalowski, Wojtek; Matwin, Stan; Szpakowicz, Stan) Representing the negotiation process with a rule-based formalism. (Not in MR)
Kress, Moshe *see* **Cook, Wade D.; et al., 89d:90270**
Kruś, Lech *see* **Bronisz, Piotr, 89j:90311**
Matwin, Stan *see* **Kersten, Gregory E.; et al.,** (Not in MR)
Michalowski, Wojtek *see* **Kersten, Gregory E.; et al.,** (Not in MR)
Paterson, Iain (*with* Diekmann, Andreas) A paradox in decision theory and some experimental results: the relative nature of decisions. **89g:90266**
Pettit, Philip The prisoner's dilemma is an unexploitable Newcomb problem. **89m:90185**
Schellenberg, James A. A comparative test of three models for solving "the bargaining problem". **89e:90241**
Szpakowicz, Stan *see* **Kersten, Gregory E.; et al.,** (Not in MR)

Items with secondary classifications in 90D35

Ahlswede, Rudolf (*with* Wegener, Ingo) ★ Search problems. **89c:68019**
Becker, Joao L. (*with* Sarin, Rakesh K.) Lottery dependent utility. **89a:90027**
Benzing, H. (*with* Kalin, Dieter; Theodorescu, R.) Optimal policies for sequential Bernoulli experiments with switching costs. (German and Russian summaries) **89d:62081**
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Bruss, F. Thomas Correction: "On an optimal selection problem of Cowan and Zabczyk" [J. Appl. Probab. **24** (1987), no. 4, 918–928; MR 88i:60082]. **89g:60151**
Chumakov, V. V. *see* **Kononenko, A. F., 89j:90159**
Coleman, James S. Social structure and the emergence of norms among rational actors. (*see* **89d:90019**)
Fishburn, Peter C. (*with* Lavalle, Irving H.) The structure of SSB utilities for decision under uncertainty. **89f:90005**
Gessing, Ryszard Optimal control laws for two-level hierarchical resource allocation. **89a:90004**
— Optimal control laws for a two-level linear quadratic problem. **89g:93109**
Gilat, David On the best order of observation in optimal stopping problems. **89a:60123**
Glushchenko, V. E. Application of the search principles of group decisions in multicriterial problems to systems for the recognition of moving objects. (Russian) (*see* **89h:00001**)
Holler, Manfred J. Moral sentiments and self-interest reconsidered. (*see* **89d:90019**)
Kalin, Dieter *see* **Benzing, H.; et al., 89d:62081**
Kilgour, D. Marc *see* **Brams, Steven J., 89e:90245**
Kononenko, A. F. (*with* Chumakov, V. V.) Decision making in a two-level hierarchical control system in the presence of exogenous noncontrollable factors. **89j:90159**
Lavalle, Irving H. *see* **Fishburn, Peter C., 89f:90005**
Leinfellner, Werner The prisoner's dilemma and its evolutionary iteration. (*see* **89d:90019**)
Lindenberg, Siegwart The paradox of privatization in consumption. (*see* **89d:90019**)
Livne, Zvi A. Bargaining over the division of a shrinking pie: an axiomatic approach. **89g:90244**
Loginov, S. S. *see* **Vilisov, Ya. Ya., (89h:00001)**
Mazalov, V. V. ★ Игровые моменты остановки. (Russian) [Game-theoretic stopping times] **89a:90156**
Myerson, Roger B. Bayesian equilibrium and incentive-compatibility: an introduction. **89b:90010**
Page, Talbot Pivot mechanisms as a link between probability and preference revelation. **89d:90006**
Raub, Werner (*with* Voss, Thomas) Conditions for cooperation in problematic social situations. (*see* **89d:90019**)
Ruckle, William H. Global theories of the linearizing projection with applications. **89m:90051**
Sakaguchi, Minoru Some simple models of duels with a random termination time. **89f:90190**
Sarin, Rakesh K. *see* **Becker, Joao L., 89a:90027**
Schreiner, Baptist Benachbarts beim Lotto. [Adjacent numbers in lotto] (Not in MR)
Shubik, Martin Games with perceptive commanders but with indoctrinated or less perceptive subordinates. (*see* **89d:90019**)
Theodorescu, R. *see* **Benzing, H.; et al., 89d:62081**
Tsitsiklis, John N. Decentralized detection by a large number of sensors. **89a:94007**
Vályi, István Approximate saddle-point theorems in vector optimization. **89b:90211**
Vilisov, Ya. Ya. (*with* Loginov, S. S.) Control of the development of complex game-theoretic systems. (Russian) (*see* **89h:00001**)
Voss, Thomas *see* **Raub, Werner, (89d:90019)**
Wegener, Ingo *see* **Ahlswede, Rudolf, 89c:68019**
Węgrzyn, Maciej Conflict situations in a production process. (Polish. English and Russian summaries) **89c:90059**
(Wotschke, Jean E.) *see* **Ahlswede, Rudolf, 89c:68019**

90D40 Game theory models [see also 65Cxx, 68Qxx, 68U20]

Abou-Kandil, H. (*with* Bertrand, P.) Government-private sector relations as a Stackelberg game. A degenerate case. **89c:90128**
Bertrand, P. *see* **Abou-Kandil, H., 89c:90128**
Bikhchandani, Sushil Reputation in repeated second-price auctions. **89i:90104**
Brandenburger, Adam (*with* Dekel, Eddie) Common knowledge with probability 1. **89a:90187**
Breen, P. (*with* Henderson, W.) Dominated strategies in searching for evolutionary stable strategies. **89h:90283**
Dekel, Eddie *see* **Brandenburger, Adam, 89a:90187**
Henderson, W. *see* **Breen, P., 89h:90283**
Hirshleifer, Jack The analytics of continuing conflict. (*see* **89e:90218**)
Jovanovic, Boyan (*with* Rosenthal, Robert W.) Anonymous sequential games. **89e:90242**
Kleĭmenov, A. F. Investigation of a hierarchical three-level differential game. (Russian) **89a:90188**
Lapan, Harvey E. *see* **Sandler, Todd, (89e:90218)**
Petrosyan, L. A. (*with* Shiryaev, V. D.) ★ Иерархические игры. (Russian) [Hierarchical games] **89b:90255**
Rosenthal, Robert W. *see* **Jovanovic, Boyan, 89e:90242**
Sandler, Todd (*with* Lapan, Harvey E.) The calculus of dissent: an analysis of terrorists' choice of targets. (*see* **89e:90218**)

Schreiner, Baptist Benachbarts beim Lotto. [Adjacent numbers in lotto] (Not in MR)

Shiryaev, V. D. *see* **Petrosyan, L. A., 89b:90255**

Shubik, Martin ★ Game theory in the social sciences. **89c:90129**

Thomson, William L. The manipulability of the Shapley-value. **89e:90243**

Items with secondary classifications in 90D40

Akimov, V. P. (*with* Sergeev, V. M.) Determination of preferences on the basis of post-game analysis of events. **89e:90010**

Antonelli, P. L. (*with* Skowronski, Janisław M.) Differential offensive-defensive games between plants and herbivores. **89a:92055**

— (*with* Skowronski, Janisław M.) Adaptive identification of environmental stress for the management of plant growth. **89b:92023**

Asch, Peter (*with* Quandt, Richard E.) Betting bias in "exotic" bets. **89j:90299**

(Aumann, Robert J.) *see* **Harsanyi, John C., 89j:90285**

Blest, D. C. (*with* Fitzgerald, D. G.) Scheduling sports competitions with a given distribution of times. **89k:90084**

Brams, Steven J. (*with* Kilgour, D. Marc) National security games. (*see* **89e:90218**)

Brito, Dagobert L. *see* **Intriligator, Michael D., (89e:90218)**

Cassandras, Christos G. Optimal transmission and jamming strategies in a communication channel. **89a:94004**

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Dacey, Raymond *see* **Cioffi-Revilla, Claudio, (89e:90218)**

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Èĭdel′man, S. D. *see* **Korolyuk, V. S.; et al., 89k:68108**

Fitzgerald, D. G. *see* **Blest, D. C., 89k:90084**

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Harsanyi, John C. (*with* Selten, Reinhard) ★ A general theory of equilibrium selection in games. **89j:90285**

Huang, Xiao Yuan Study of a noncooperative differential game model of market prices. (Chinese. English summary) **89f:90219**

Intriligator, Michael D. (*with* Brito, Dagobert L.) A predator-prey model of guerrilla warfare. (*see* **89e:90218**)

Isaac, R. Mark (*with* Walker, James M.) Group size effects in public goods provision: the voluntary contributions mechanism. **89a:90034**

Kilgour, D. Marc *see* **Brams, Steven J., (89e:90218)**

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Lalley, S. (*with* Robbins, Herbert) Stochastic search in a square and on a torus. **89c:90064**

Levine, David K. *see* **Fudenberg, Drew, 89c:90115**

Lewis, Alain A. Lower bounds on degrees of game-theoretic structures. **89i:03083**

Mehlmann, Alexander ★ Applied differential games. **89j:90302**

Muncaster, Robert G. *see* **Zinnes, Dina A., (89e:90218)**

Pletnëv, A. I. *see* **Korolyuk, V. S.; et al., 89k:68108**

Quandt, Richard E. *see* **Asch, Peter, 89j:90299**

Robbins, Herbert *see* **Lalley, S., 89c:90064**

Safonov, I. V. *see* **Degtyar, V. U., 89j:92070**

Sahi, S. (*with* Shubik, Martin) A model of a sudden-death field-goal football game as a sequential duel. **89f:90201**

Schellenberg, James A. A comparative test of three models for solving "the bargaining problem". **89e:90241**

Schmeidler, David *see* **Gilboa, Itzhak, 89j:90284**

Selten, Reinhard *see* **Harsanyi, John C., 89j:90285**

Sergeev, V. M. *see* **Akimov, V. P., 89e:90010**

Shubik, Martin *see* **Sahi, S., 89f:90201**

Skowronski, Janisław M. *see* **Antonelli, P. L., 89a:92055** *and* **89b:92023**

Sorger, Gerhard Competitive dynamic advertising. A modification of the case game. **89j:90069**

von Stengel, Bernhard Substitution decomposition of multilinear functions with applications to utility and game theory. **89e:90038**

Tirole, Jean *see* **Fudenberg, Drew, 89g:90074**

Vasin, A. A. Modeling the dynamics of group behavior. (Russian) **89f:92062**

Walker, James M. *see* **Isaac, R. Mark, 89a:90034**

Yamada, Atsushi Cooperative fuzzy game with side-payments. **89j:90296**

Young, H. P. On dividing an amount according to individual claims or liabilities. **89f:90022**

Zinnes, Dina A. (*with* Muncaster, Robert G.) The war propensity of international systems. (*see* **89e:90218**)

90D42 Positional and lattice games

Anderson, Marlow (*with* Harary, Frank) Achievement and avoidance games for generating abelian groups. **89a:90189**

Baston, V. J. (*with* Bostock, F. A.) A continuous game of ambush. **89a:90190**

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Dzhandzhulyan, L. È. An estimate for the stability of the tournament ordering of control algorithms in games. (Russian. Armenian summary) **89e:90244**

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Las Vergnas, Michel *see* **Hamidoune, Yahya Ould, 89k:90206**

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Sagatelyan, K. V. On positional games with variable information. (Russian. Armenian summary) **89d:90271**

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Anstee, R. P. (*with* Farber, Martin) On bridged graphs and cop-win graphs. **89h:05053**

Baston, V. J. (*with* Bostock, F. A.) Discrete hamstrung squad car games. **89d:90261**

Betten, Dieter Kalahari and the sequence "Sloane No. 377". **89f:05010**

Bostock, F. A. *see* **Baston, V. J., 89d:90261**

Chung, F. R. K. (*with* Cohen, Joel E.; Graham, R. L.) Pursuit-evasion games on graphs. **89k:05069**

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Creely, Joseph W. The length of a three-number game. **89e:05025**

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Farrell, E. J. On the matching polynomial and its relation to the rook polynomial. **89e:05156**

Graham, R. L. *see* **Chung, F. R. K.; et al., 89k:05069**

Hamidoune, Yahya Ould On a pursuit game on Cayley digraphs. **89d:90264**

Harary, Frank (*with* Plochinski, Ken) On degree achievement and avoidance games for graphs. **89i:05254**

Kahn, J. (*with* Lagarias, J. C.; Witsenhausen, H. S.) Single-suit two-person card play. II. Dominance. **89j:90279**

Krasovskiĭ, N. N. On synthesis in a differential game. **89f:90220**

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Lalley, S. A one-dimensional infiltration game. **89j:90280**

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Sushkin, V. V. Nash-equilibrium states in a multistage n-person positional game. (Russian) **89c:90121**

Tardos, Gábor Polynomial bound for a chip firing game on graphs. **89i:68103**

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Ulam, Stan *see* **Mauldin, R. Daniel, 89g:04005**

Vyazgin, V. A. Differential games with variable observation capacities of partners. **89f:90224**

Wilber, Robert White pebbles help. **89j:90282**

Witsenhausen, H. S. *see* **Kahn, J.; et al., 89j:90279**

90D45 Applications of game theory

(Binmore, K. G.) *see* **Economic organizations as games, 89e:90246**

Brams, Steven J. (*with* Kilgour, D. Marc) ★ Game theory and national security. **89e:90245**

Carreras Escobar, Francesc (*with* Owen, Guillermo) Evaluation of the Catalonian Parliament, 1980–1984. **89b:90256**

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Fraser, Niall M. *see* **Wang, Muhong; et al., 89g:90267**

Gilbert, E. N. An optimal minimax algorithm. **89b:90257**

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Kaitala, V. (*with* Pohjola, M.) Optimal recovery of a shared resource stock: a differential game model with efficient memory equilibria. **89m:90187**

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Levasseur, Kenneth M. How to beat your kids at their own game. (Not in MR)

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Novoselov, V. S. A model for an antagonistic game in a gravitational field. (Russian) **89h:90285**

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Pinker, Aron Applications of control theory methods to warfare problems. **89m:90188**

Pohjola, M. *see* **Kaitala, V., 89m:90187**

Shubik, Martin ★ Game theory in the social sciences. Vol. 2. **89c:90130**

Wang, Ann-Ling Sek Chai Tan. (Malay summary) **89j:90313**

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Asheim, Geir B. Rawlsian intergenerational justice as a Markov-perfect equilibrium in a resource technology. **89h:90011**

Bamberg, G. (*with* Coenenberg, Adolf Gerhard) ★ Betriebswirtschaftliche Entscheidungslehre. (German) [Decision theory in industrial management] **89h:90001**

Belbas, S. A. The dynamic programming equations for stochastic games with discrete actions. **89g:93089**

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Boyd, Robert Mistakes allow evolutionary stability in the repeated prisoner's dilemma game. **89j:90277**

Bueno de Mesquita, Bruce (*with* Lalman, David) Arms races and the opportunity for peace. (*see* **89e:90218**)
Bunakov, A. È. (*with* Kononenko, A. F.; Chistyakov, Yu. E.) Hierarchical differential (dynamic) games and their applications. (Russian) **89f:90214**
Cave, Jonathan Long-term competition in a dynamic game: the cold fish war. **89d:90070**
Chistyakov, Yu. E. *see* **Bunakov, A. È.; et al., 89f:90214**
Cioffi-Revilla, Claudio (*with* Dacey, Raymond) The probability of war in the n-crises problem: modeling new alternatives to Wright's solution. (*see* **89e:90218**)
Coenenberg, Adolf Gerhard *see* **Bamberg, G., 89h:90001**
Cohen, Dan (*with* Zohari, Daniel) The selection operating on the evolution equilibrium of the frequency of sexual reproduction in predominantly asexual populations. **89e:92027**
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Kranüchel, Rolf ★ Kooperation auf homogenen und heterogenen Oligopolmärkten. (German) [Cooperation on homogeneous and heterogenous oligopoly markets] **89c:90031**
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Lensberg, Terje Stability and the Nash solution. **89h:90046**
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McLean, Richard P. (*with* Riordan, Michael H.) Industry structure with sequential technology choice. (Not in MR)
Miloh, T. *see* **Yavin, Y.; et al.,** (Not in MR)
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Myerson, Roger B. Negotiation in games: a theoretical overview. **89b:90240**
Naegelen, Florence L'enchère optimale dans l'hypothèse de dépendance des évaluations: une caractérisation. (English summary) [Optimal auction with dependent values: a characterization] **89i:90095**
Packel, Edward W. The algorithm designer versus nature: a game-theoretic approach to information-based complexity. **89j:68070**
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Rowe, Glenn W. To each genotype a separate strategy—a dynamic game theory model of a general diploid system. **89k:92040**
Ruckle, William H. The linearizing projection, global theories. **89f:90223**
Schaffer, Mark E. Evolutionarily stable strategies for a finite population and a variable contest size. **89j:92071**
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Tzeng, Chun-Hung ★ A theory of heuristic information in game-tree search. **89k:68139**
Udal'tsov, Yu. A. Game-theoretic analysis of mutually profitable strategies in exchange systems. **89h:90036**
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Yavin, Y. (*with* Miloh, T.; de Villiers, R.) The probability of penetrating a protected site. (Not in MR)
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Cambridge ★ Analysing conflict and its resolution. **89b:90234**
Conference:
  Mathematics of Conflict and its Resolution ★ Analysing conflict and its resolution. **89b:90234**

90D99 None of the above, but in this section

Baĭdosov, V. A. Mappings that are conjugate to multivalued mappings and their application to generalized dynamic games. **89g:90268**
Kubicki, Grzegorz On a game of Sierpiński. **89h:90286**
Loginov, S. S. *see* **Vilisov, Ya. Ya., (89h:00001)**
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Butnariu, D. Additive fuzzy measures and integrals. III. **89g:28033**
Chen, Robert W. (*with* Hwang, F. K.) Stronger players win more balanced knockout tournaments. **89d:05061**
Cook, Wade D. (*with* Kress, Moshe) Tournament ranking and score difference. **89d:05084**
— (*with* Kress, Moshe) Partial and multiple match tournaments. **89e:05097**
Hwang, F. K. *see* **Chen, Robert W., 89d:05061**
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Parigot, Michel Automata, games, and positive monadic theories of trees. **89f:03030**
Rivest, Ronald L. Game tree searching by min/max approximation. **89a:68197**
Semenov, M. A. (*with* Terkel', D. A.) Games of probabilistic and deterministic algorithms of bounded complexity. (Russian) **89j:68041**
Sigmund, K. Gradients for replicator systems. **89a:92028**
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Webb, W. A. The N-number game for real numbers. **89f:05024**

92–XX Biology and behavioral sciences

92–01 Elementary exposition; textbooks

Andersson, Å. E. (*with* Casti, J.; Christiansen, P. L.; Karlqvist, A.) Emerging paradigms in applied mathematical modelling—an introduction. **89j:92001**
Casti, J. *see* **Andersson, Å. E.; et al., 89j:92001**
Christiansen, P. L. *see* **Andersson, Å. E.; et al., 89j:92001**
Deakin, M. A. B. Two faces of biomathematics. **89d:92001**
Karlqvist, A. *see* **Andersson, Å. E.; et al., 89j:92001**
Simon, William ★ Mathematical techniques for biology and medicine. **89h:92001**
Vol'kenshteĭn, M. V. ★ Биофизика. (Russian) [Biophysics] **89g:92001**

Items with secondary classifications in 92–01

Brown, Reginald F. ★ Biomedical systems analysis via compartmental concept. **89a:92017**
(Danilov, Yu. A.) *see* **Horsthemke, Werner, 89d:82002**
(Emel'yanov, V. I.) *see* **Horsthemke, Werner, 89d:82002**
Horsthemke, Werner (*with* Lefever, René) ★ Индуцированные шумом переходы. (Russian) [Noise-induced transitions] **89d:82002**
Lefever, René *see* **Horsthemke, Werner, 89d:82002**
(Mikhaĭlov, A. S.) *see* **Horsthemke, Werner, 89d:82002**
Saunders, Peter Timothy ★ Katastrophentheorie. (German) [Catastrophe theory] **89g:58028**
(Streeruwitz, Ernst) *see* **Saunders, Peter Timothy, 89g:58028**
(Zubarev, D. N.) *see* **Horsthemke, Werner, 89d:82002**

92–02 Advanced exposition (research surveys, monographs, etc.)

Cartianu, Dan ★ Synchronization phenomena in reaction-diffusion systems. **89j:92002**
Chernavskiĭ, D. S. *see* **Vasil'ev, V. A.; et al., 89c:92001**
Cronin, Jane ★ Mathematical aspects of Hodgkin-Huxley neural theory. **89a:92001**
Haken, Hermann Synergetics and computers. **89h:92002**
Herzel, H. Deterministisches Chaos in biologischen Systemen. [Deterministic chaos in biological systems] **89f:92001**
Kozlov, V. N. *see* **Krushinskiĭ, L. V.; et al., 89j:92003**
Krushinskiĭ, L. V. (*with* Kozlov, V. N.; Kudryavtsev, V. B.) Some results of the application of mathematics to modeling in biology. (Russian) **89j:92003**
Kudryavtsev, V. B. *see* **Krushinskiĭ, L. V.; et al., 89j:92003**
Romanovskiĭ, Yu. M. *see* **Vasil'ev, V. A.; et al., 89c:92001**
Smithson, Michael Fuzzy set theory and the social sciences: the scope for applications. (Not in MR)
Vasil'ev, V. A. (*with* Romanovskiĭ, Yu. M.; Chernavskiĭ, D. S.; Yakhno, V. G.) ★ Autowave processes in kinetic systems. **89c:92001**
Yakhno, V. G. *see* **Vasil'ev, V. A.; et al., 89c:92001**

Items with secondary classifications in 92–02

Alt, Wolfgang Modelling of motility in biological systems. **89m:92010**
Bailar, Barbara A. Quality issues in measurement. (French summary) **89g:92092**
(Grossberg, S.) *see* **Neural networks and natural intelligence, 89m:92062**

Levin, Simon A. Recurrent themes in mathematical biology. **89g:92004**
(Marchuk, G. I.) *see* **Pogozhev, I. B., 89g:92011**
Pogozhev, I. B. ★ Применение математических моделей заболеваний в клинической практике. (Russian) [Application of mathematical models of diseases in clinical practice] **89g:92011**
Samarskiĭ, A. A. Mathematical simulation and the theory of nonstationary localized processes. **89j:00050**
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Neural networks and natural intelligence ★ Neural networks and natural intelligence. **89m:92062**

92–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 92–03

Bailhache, Patrice Valeur actuelle de l'acoustique musicale de Helmholtz. (English summary) [The current value of Helmholtz' musical acoustics] **89j:01037**
Dronamraju, Krishna R. On some aspects of the life and work of John Burdon Sanderson Haldane, F.R.S., in India. **89d:01059**
(Haldane, John Burdon Sanderson) *see* **Dronamraju, Krishna R., 89d:01059**
(von Helmholtz, Hermann) *see* **Bailhache, Patrice, 89j:01037**
(Huxley, Julian) *see* **Dronamraju, Krishna R., 89d:01059**
Keiding, Niels The method of expected number of deaths, 1786–1886–1986. (French summary) **89h:01029**
Street, Anne Penfold (*with* Street, Deborah J.) Latin squares and agriculture: the other bicentennial. **89i:01037**
Street, Deborah J. *see* **Street, Anne Penfold, 89i:01037**

Items listed otherwise than by author

Biography:
  Haldane, John Burdon Sanderson *see* **Dronamraju, Krishna R., 89d:01059**
Correspondence:
  Haldane, John Burdon Sanderson–Huxley, Julian *see* **Dronamraju, Krishna R., 89d:01059**

92–04 Explicit machine computation and programs (not the theory of computation or programming)

Budelli, R. *see* **Diez Martinez, O.; et al., 89j:92004**
Diez Martinez, O. (*with* Pérez, P.; Budelli, R.; Segundo, J. P.) Locking, intermittency, and bifurcations in a periodically driven pacemaker neuron: Poincaré maps and biological implications. **89j:92004**
Pérez, P. *see* **Diez Martinez, O.; et al., 89j:92004**
Segundo, J. P. *see* **Diez Martinez, O.; et al., 89j:92004**

Items with secondary classifications in 92–04

Kozlov, V. N. *see* **Krushinskiĭ, L. V.; et al., 89j:92003**
Krushinskiĭ, L. V. (*with* Kozlov, V. N.; Kudryavtsev, V. B.) Some results of the application of mathematics to modeling in biology. (Russian) **89j:92003**
Kudryavtsev, V. B. *see* **Krushinskiĭ, L. V.; et al., 89j:92003**

92–06 Proceedings, conferences, etc.

(Buravtsev, V. N.) *see* **All-Union Conference: Mathematical and Computational Methods in Biology. Biomolecular Systems, 89a:92002**
(Burger, Mária) *see* **Oscillations and traveling waves in chemical systems, 89f:92003**
(Dembo, Micah) *see* **Nonlinearity in biology and medicine, 89c:92002**
(Fed'kina, V. R.) *see* **Oscillations and traveling waves in chemical systems, 89f:92003**
(Field, Richard J.) *see* **Oscillations and traveling waves in chemical systems, 89f:92003**
(Goldstein, Byron) *see* **Nonlinearity in biology and medicine, 89c:92002**
(Jacquez, John A.) *see* **Nonlinearity in biology and medicine, 89c:92002**
(Karlin, Samuel) *see* **Evolutionary processes and theory, 89b:92001**
(Markus, Mario) *see* **From chemical to biological organization, 89g:92002**
(Mazurov, Vl. D.) *see* **Mathematical modeling of medical and biological systems, 89j:92005**
(Müller, S. C.) *see* **From chemical to biological organization, 89g:92002**
(Nevo, Eviatar) *see* **Evolutionary processes and theory, 89b:92001**
(Nicolis, G.) *see* **From chemical to biological organization, 89g:92002**
(Perelson, Alan S.) *see* **Nonlinearity in biology and medicine, 89c:92002**
(Ricciardi, Luigi M.) *see* **Biomathematics and related computational problems, 89f:92002**
(Rovinskiĭ, A. B.) *see* **Oscillations and traveling waves in chemical systems, 89f:92003**
(Smirnov, A. I.) *see* **Mathematical modeling of medical and biological systems, 89j:92005**
(Zhabotinskiĭ, A. M.) *see* **Oscillations and traveling waves in chemical systems, 89f:92003**

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All-Union Conference:
  Mathematical and Computational Methods in Biology. Biomolecular Systems ★ II Всесоюзная Конференция "Математические и Вычислительные Методы в Биологии. Биомолекуляные Системы". (Russian) [II All-Union Conference "Mathematical and Computational Methods in Biology. Biomolecular Systems"] **89a:92002**
Bibliography:
  Oscillations and traveling waves in chemical systems Bibliography. (Russian) (*see* **89f:92003**)
Biomathematics and related computational problems ★ Biomathematics and related computational problems. **89f:92002**
Conference:
  Nonlinearity in Biology and Medicine ★ Nonlinearity in biology and medicine. **89c:92002**
Evolutionary processes and theory ★ Evolutionary processes and theory. **89b:92001**
From chemical to biological organization ★ From chemical to biological organization. **89g:92002**
Israel ★ Evolutionary processes and theory. **89b:92001**
Los Alamos, NM ★ Nonlinearity in biology and medicine. **89c:92002**
Mathematical modeling of medical and biological systems ★ Математическое моделирование медицинских и биологических систем. (Russian) [Mathematical modeling of medical and biological systems] **89j:92005**
Naples ★ Biomathematics and related computational problems. **89f:92002**
Nonlinearity in biology and medicine ★ Nonlinearity in biology and medicine. **89c:92002**
Oscillations and traveling waves in chemical systems ★ Колебания и бегущие волны в химических системах. (Russian) [Oscillations and traveling waves in chemical systems] **89f:92003**
Pushchino ★ II Всесоюзная Конференция "Математические и Вычислительные Методы в Биологии. Биомолекуляные Системы". (Russian) [II All-Union Conference "Mathematical and Computational Methods in Biology. Biomolecular Systems"] **89a:92002**
Workshop:
  Biomathematics and Related Computational Problems ★ Biomathematics and related computational problems. **89f:92002**
  Evolutionary processes and theory ★ Evolutionary processes and theory. **89b:92001**

Items with secondary classifications in 92–06

(Aĭzerman, M. A.) *see* **Topics in the general theory of structures, 89d:90001**
(Caianiello, Eduardo R.) *see* **Topics in the general theory of structures, 89d:90001**
(Haken, Hermann) *see* **Neural and synergetic computers, 89i:92026**
(Kurzhanskiĭ, A. B.) *see* **Evolution and control in biological systems, 89j:92009**
(Sigmund, K.) *see* **Evolution and control in biological systems, 89j:92009**

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Evolution and control in biological systems ★ Evolution and control in biological systems. **89j:92009**
Laxenburg ★ Evolution and control in biological systems. **89j:92009**
Neural and synergetic computers ★ Neural and synergetic computers. **89i:92026**
Schloss Elmau ★ Neural and synergetic computers. **89i:92026**
Symposium:
  Neural and Synergetic Computers ★ Neural and synergetic computers. **89i:92026**
Topics in the general theory of structures ★ Topics in the general theory of structures. **89d:90001**
Workshop:
  Evolution and Control in Biological Systems ★ Evolution and control in biological systems. **89j:92009**

92–08 Computational methods

Cherruault, Y. (*with* Guillez, A.) Identification des systèmes compartimentaux ordinaires. Les programmes FELICITY et SOPHIE-ALICE. [Identification of ordinary compartmental systems. The programs FELICITY and SOPHIE-ALICE] **89b:92002**
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92A05 General biology [see also 73–XX, 76–XX, in particular 73Pxx, 76Zxx]

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Dale, M. R. T. The distribution of variables measuring gap and overlap in sheaves of line segments: measured by events. **89c:92005**
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Wang, Ji Sheng *see* **Guo, Da Wei; et al., 89j:92007**
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  Evolution and Control in Biological Systems ★ Evolution and control in biological systems. **89j:92009**
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Alimov, A. L. A method of data compression for digital correcting of readings of a measuring system. (Russian) **89f:65017**
de Almeida, Rita M. C. (*with* Iglesias, J. R.) Towards statistical mechanics of a 2D random cellular structure. **89i:82112**
Ansari, Ali *see* **Kowalski, Jacek M.; et al., 89j:70038**
Artem'ev, Yu. I. *see* **Tyukhtin, V. S.; et al., 89f:00045**
Bak, Per (*with* Tang, Chao; Wiesenfeld, Kurt) Self-organized criticality. **89g:58126**
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Barbé, André Periodic patterns in the binary difference field. **89k:11063a**
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Ferre, Michel Quelques exemples d'application de relateurs partiellement autoréférents. [Some examples of the application of partially self-referential relators] **89b:92029**
Gaponov-Grekhov, A. V. (*with* Rabinovich, M. I.) Autostructures. The chaotic dynamics of ensembles. (Russian) **89f:76054**
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Guénoche, A. (*with* Monjardet, B.) Méthodes ordinales et combinatoires en analyse des données. (English summary) [Ordinal and combinatorial methods in data analysis] (Not in MR)

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Haken, Hermann Synergetic computers for pattern recognition and associative memory. **89c:92021**
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Hoffmann, Karl-Heinz^2 (*with* Sprekels, Jürgen; Visintin, A.) Identification of hysteresis loops. **89i:82116**
Hucklenbroich, Peter (*with* Chuaqui, Benedicto) Thesen und Probleme zu den Begriffen von Ordnung, Information und Emergenz. [Theses and problems on the concepts of order, information and emergence] **89c:92043**
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Jumarie, Guy Thermodynamic representation of dynamic systems defined by a syntactic space and a semantic space. **89b:80002**
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Kowalski, Jacek M. (*with* Ansari, Ali; Prueitt, Paul S.; Dawes, Robert L.; Gross, Gunther) On synchronization and phase locking in strongly coupled systems of planar rotators. **89j:70038**
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Lizana, M. Asymptotic expansion for the initial value problem of the sunflower equation. **89h:34069**
Mainzer, Klaus ★ Symmetrien der Natur. (German) [Symmetries of nature] **89i:00033**
Malikov, A. V. *see* **Tyukhtin, V. S.; et al., 89f:00045**
Mandel′, I. D. (*with* Mirkin, B. G.) Cluster analysis and related problems (brief review of basic trends). (Not in MR)
Matheron, G. *see* **Jourlin, M.; et al., 89m:68139**
Mauldin, R. Daniel (*with* Ulam, Stan) Mathematical problems and games. **89g:04005**
Mazur, A. K. (*with* Abagyan, R. A.; Elyakov, G. B.) A new approach to modeling the structure and dynamics of biomacromolecules and their complexes. (Russian) **89k:92090**
Meron, Ehud *see* **Elphick, Christian; et al., 89g:58150**
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Nicolau, Edmond Utilization of systemic and cybernetic concepts in studying living systems: example of the neuron. (Not in MR)
Nicolis, G. Nonlinear dynamics, self-organization and the symbolic representation of complexity. **89k:58260**
Noguchi, Shoichi Bio-mathematical approach to a new-generation computer. (*see* **89f:92002**)
Nussbaum, Roger D. Hilbert's projective metric and iterated nonlinear maps. **89m:47046**
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Pickover, Clifford A. Pattern formation and chaos in networks. **89g:58138**
Preteux, F. *see* **Jourlin, M.; et al., 89m:68139**
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Rabinovich, M. I. *see* **Gaponov-Grekhov, A. V., 89f:76054**
Rommelfanger, Heinrich ★ Differenzengleichungen. (German) [Difference equations] **89b:39001**
Rosen, Robert How universal is a universal unfolding? **89e:58015**
Savageau, Michael A. Introduction to *S*-systems and the underlying power-law formalism. (*see* **89d:00007**)
Schmitt, Michel *see* **Jourlin, M.; et al., 89m:68139**
Schōner, G. (*with* Kelso, J. A. S.) A dynamic pattern theory of behavioral change. **89i:92061**
Segel, L. A. Some nonstandard modeling techniques in theoretical biology. **89i:92024**
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Spiegel, E. A. *see* **Elphick, Christian; et al., 89g:58150**
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Stauffer, D. Periods, damage spreading, and multifractality in cooperative systems. **89j:58083**
(Takaki, R.) *see* **Science on form, 89g:82013**
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Thomas, Alun Drawing pedigrees. **89j:92076**
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Tsonkov, Stoyan M. Control of objects with distributed parameters in a class of systems with variable structure. (Russian. English summary) **89k:93096**
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Ulam, Stan *see* **Mauldin, R. Daniel, 89g:04005**
Urmantsev, Yu. A. *see* **Tyukhtin, V. S.; et al., 89f:00045**
Victor, Jonathan D. *see* **Gutowitz, Howard A.; et al., 89d:68063**
Vidal, Pierre *see* **Gille, Jean-Charles; et al., 89e:92028**
Visintin, A. Mathematical models of hysteresis. **89j:82096**
— *see also* **Hoffmann, Karl-Heinz^2; et al., 89i:82116**
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Wiesenfeld, Kurt *see* **Bak, Per; et al., 89g:58126**
Wolf, Douglas A. The multistate life table with duration-dependence. (French summary) **89k:62126**
Zamorzaev, A. M. *see* **Tyukhtin, V. S.; et al., 89f:00045**
Zeleznikar, Anton P. Information determinations. I. **89k:92085**
Zhou, Hong Xing Analysis of pulsewidth modulated sampled-data control systems. (Chinese. English summary) **89j:93076**

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Pushchino ★ II Всесоюзная Конференция "Математические и Вычислительные Методы в Биологии. Биомолекуляные Системы". (Russian) [II All-Union Conference "Mathematical and Computational Methods in Biology. Biomolecular Systems"] **89a:92002**
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92A06 Biomechanics (general)

Bajaj, A. K. Nonlinear dynamics of tubes carrying a pulsatile flow. **89h:92006**
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Chamilothoris, G. (*with* Renaud, P. Y.; Sévely, Y.; Vigie, P.) Adaptive predictive control of a multistage fermentation process. **89g:92008**
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Gersztenkorn, Adam *see* **Scales, John A.; et al., 89d:86006**

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Quinto, Eric Todd *see* **Boman, Jan, 89m:44004**

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Evolution and control in biological systems ★ Evolution and control in biological systems. **89j:92009**

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Workshop:

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92A08 Biophysics (general)

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Pelcé, Pierre *see* **Meron, Ehud, 89b:92012**

Pertsov, A. M. *see* **Ermakova, E. A.; et al., 89j:92018**

(Peusner, L.) *see* **Louie, A. H., 89d:92018**

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Rudenko, A. N. *see* **Agladze, K. I.; et al., 89b:92010**

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Šturdík, E. *see* **Baláž, Š.; et al., 89f:92011**

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Wyman, Jeffries *see* **Di Cera, Enrico; et al., 89f:92012** *and* **89f:92013**

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Ma, Fen Rong *see* **Zhu, Zhen Yuan**, (Not in MR)

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92A09 Physiology, biochemistry [see also 76–XX, in particular 76Zxx, and 78A70, 80A30, 80A32, 92A27, 92A40]

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Akhmedov, T. I. *see* **Kolotenko, G. A., 89h:92023**

Alexander, Kevin A. *see* **Tyson, John J.; et al., 89k:92022**

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Anlauf, Joachim K. *see* **Opper, Manfred; et al., 89m:92026**

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Arino, Ovide *see* **Kimmel, Marek, (89d:00007)**

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Baltaītis, Yu. V. *see* **Zhuchenko, S. P.; et al., 89e:92020** *and* **89e:92021**
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Beuter, Anne *see* **Glass, L.; et al., 89h:92014**
(Beyer, W. A.) *see* **Ulam, Stan, (89m:01133a)**
Blom, J. G. *see* **Toet, A.; et al., 89c:92034**
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Bourlard, H. (*with* Kamp, Y.) Auto-association by multilayer perceptrons and singular value decomposition. **89f:92016**
Bracken, A. J. *see* **Bass, Ludvik; et al., 89f:92015**
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Brière, Christian (*with* Goodwin, Brian) Geometry and dynamics of tip morphogenesis in *Acetabularia*. **89b:92013**
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Buhmann, J. (*with* Divko, R.; Schulten, K.) Associative memory with high information content. **89m:92012**
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Busenberg, Stavros (*with* Mahaffy, J. M.) The effects of dimension and size for a compartmental model of repression. **89m:92013**
Caelli, T. M. *see* **Oğuztöreli, M. N.; et al., 89k:92019**
Caianiello, Eduardo R. Problems connected with neuronic equations. **89j:92024**
Caron, Armand Approximation numérique d'un problème de diffusion non linéaire par une méthode itérative sous contrainte de régularité. [Numerical approximation of a nonlinear diffusion problem by an iterative method under a regularity constraint] (*see* **89a:94001**)
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Chernavskii, A. V. *see* **Abdusamatov, R. M.; et al., (89b:92032)**
Chernov, Yu. G. *see* **Vedenov, A. A.; et al., 89j:92040**
Cheruy, A. *see* **Lakrori, M., (89c:00031)**
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Clarke, Bruce L. *see* **Aguda, Baltazar D., 89j:92019**
Colli, Pierluigi *see* **Allain, Geneviève, 89h:92011**
Colli Franzone, P. (*with* Guerri, L.; Rovida, S.) Macroscopic cardiac source model and propagation waves in excitable media. **89i:92013**
Collins, E. M. *see* **Collins, Richard, (89a:94001)**
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Comincioli, V. (*with* Torelli, A.) A mathematical study of a continuum-state cross-bridge model of muscle contraction. **89j:92025**
Compiani, Mario Complexity and self-organization in enzyme catalysis: non-Kramers behaviour of the reaction rate. **89i:92014**
Conyers, R. A. J. *see* **James, A. T.; et al., 89k:92018**
Cook, Daniel L. *see* **Chay, Teresa Ree, (89c:92002)**
Coolen, A. C. C. (*with* Ruijgrok, Th. W.) Image evolution in Hopfield networks. **89j:92026**
Cosnard, Michel (*with* Gholes Ch., Eric; Moumida, Driss) Bifurcation structure of a discrete neuronal equation. **89k:92013**
Cottrell, M. Stability and attractivity in associative memory networks. **89d:92022**
Crisanti, A. *see* **Sompolinsky, H.; et al., 89f:92027**
Dayananda, P. W. A. Spread of drug addiction in the presence of two competing drugs. (Not in MR)
Degn, H. Perturbations of next-period functions: applications to circadian rhythms. (*see* **89g:92002**)
Delgado, A. E. *see* **Mira, José; et al., 89b:92018**
Delsarte, P. (*with* Kamp, Y.) Low rank matrices with a given sign pattern. **89m:92014**
Dembo, A. (*with* Zeitouni, O.) General potential surfaces and neural networks. **89c:92012**
Derrida, B. (*with* Nadal, J.-P.) Learning and forgetting on asymmetric, diluted neural networks. **89c:92013**
— (*with* Meir, Ronny) Chaotic behavior of a layered neural network. **89h:92012**
DeYoung, G. (*with* Monk, P. B.; Othmer, Hans G.) Pacemakers in aggregation fields of *Dictyostelium discoideum*: does a single cell suffice? **89k:92014**
Diederich, Sigurd *see* **Opper, Manfred; et al., 89m:92026**
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Divko, R. *see* **Buhmann, J.; et al., 89m:92012**
Doi, Hirofumi Morphogenesis and cell specification at embryonic stage; theoretical analysis on mosaic eggs. (*see* **89g:82013**)
Dreyfus, G. *see* **Guyon, I.; et al., 89m:92019**
Duncan, K. (*with* Eilbeck, J. C.) Numerical studies of symmetry-breaking bifurcations in reaction-diffusion systems. **89k:92015**
Eckmiller, R. Neural nets for the management of sensory and motor trajectories. (*see* **89i:92026**)
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— *see also* **Duncan, K., 89k:92015**
Elleithy, O. A. *see* **El-Owaidy, H.; et al., 89k:92016**
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Endo, Shuji (*with* Kinouchi, Yohsuke; Ushita, Tomiyuki) A neural network model composed of multioscillators to generate low-frequency biological rhythms. (Not in MR)
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Engelbrecht, Jüri (*with* Tobias, T.; Uus, Anu) Qualitative investigation of the Liénard model equation for describing the aperiodic profile of a solitary wave. (Russian. English and Estonian summaries) **89c:92014**
Ermentrout, G. B. Discrete and continuous media in the presence of a frequency gradient. **89m:92016**
— *see also* **Kopell, N., 89m:92024**
Ezhov, A. A. *see* **Vedenov, A. A.; et al., 89j:92040**
Farrell, B. E. *see* **Tranquillo, R. T.; et al., (89c:92002)**
Fasano, F. *see* **Serra, Roberto; et al., 89j:92038**
Favella, L. (*with* Balossino, N.; Reineri, M. T.) Electrical excitation propagation front in the cardiac muscle. **89i:92015**
Fel'dman, A. G. *see* **Abdusamatov, R. M.; et al., (89b:92032)**
Fell, David A. *see* **Small, J. Rankin, (Not in MR)**
Ferretti, Vincent (*with* Sankoff, David) A continuous analog for RNA folding. **89m:92017**
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Fisher, E. S. *see* **Tranquillo, R. T.; et al., (89c:92002)**
Flyvbjerg, H. (*with* Kjær, N. J.) Exact solution of Kauffman's model with connectivity one. **89j:92027**
Fontanari, J. F. (*with* Köberle, R.) Enhancing the learning of a finite number of patterns in neural networks. **89c:92015**
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Forrest, B. M. Content-addressability and learning in neural networks. **89b:92014**
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Freeman, Walter J. Strange attractors that govern mammalian brain dynamics shown by trajectories of electroencephalographic (EEG) potential. (Not in MR)
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— Analytic bounds for solutions of a class of boundary value problems in physiology. **89m:92018**
Geist, Karlheinz *see* **Mayer-Kress, Gottfried; et al., 89f:92020**
Gerasimov, B. P. *see* **Aliev, I. V.; et al., (Not in MR)**
Gerstein, G. L. *see* **Palm, G.; et al., 89d:92035**
Gholes Ch., Eric *see* **Cosnard, Michel; et al., 89k:92013**
Gierer, A. Spatial organization and genetic information in brain development. (Not in MR)
Giersch, Christoph Control analysis of biochemical pathways: a novel procedure for calculating control coefficients, and an additional theorem for branched pathways. **89j:92028**
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Goel, Narendra S. *see* **Lewis, Harold W., III; et al., 89h:92028**
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Gomatam, Jagannathan *see* **Grindrod, Peter, 89c:92018**
Goodman, Joseph W. *see* **Bruck, Jehoshua, 89k:92011**
Goodwin, Brian *see* **Brière, Christian, 89b:92013**
Gorse, D. (*with* Taylor, John G.) On the equivalence and properties of noisy neural and probabilistic RAM nets. **89h:92015**
Gosselin, R. E. *see* **Gosselin, R. P., 89d:92025**
Gosselin, R. P. (*with* Gosselin, R. E.) Errata: "The kinetics of solute clearance by a single tissue capillary of limited permeability: explicit solutions of two models and their bounds" [Bull. Math. Biol. 49 (1987), no. 3; 329–349; MR 88g:92012]. **89d:92025**
de Graaf, J. M. (*with* Peletier, L. A.) Stimulated facilitated diffusion. **89j:92029**
Grace, R. Esther *see* **Rangan, A., 89e:92015**
Granero-Porati, M. I. (*with* Porati, A.) Energy availability as the main factor of molecular differentiation: a mathematical model. **89h:92016**
Green, H. S. (*with* Triffet, T.) Information processing by the cortex. **89d:92026**
— (*with* Triffet, T.) A zonal model of cortical functions. **89i:92017**
Grensing, D. *see* **van Hemmen, J. L.; et al., 89i:92018** *and* **89m:92020**
Grindrod, Peter (*with* Gomatam, Jagannathan) The geometry and motion of reaction-diffusion waves on closed two-dimensional manifolds. **89c:92018**
Groshans, Thomas M. *see* **Palsson, Bernhard O., 89c:92026**
Gross, Robert (*with* Yarmush, Martin L.; Kennedy, John W.; Quintas, Louis V.) Antigenesis: a cascade-theoretical analysis of the size distributions of antigen-antibody complexes. **89c:92019**
Grossberg, S. *see* **Bullock, D., (89i:92026)**
Guerri, L. *see* **Colli Franzone, P.; et al., 89i:92013**
Guilford, W. *see* **Winfree, Arthur T., 89j:92041**
Gutfreund, H. (*with* Mézard, Marc) Processing of temporal sequences in neural networks. **89d:92027**
Guyon, I. (*with* Personnaz, L.; Nadal, J.-P.; Dreyfus, G.) Storage and retrieval of complex sequences in neural networks. **89m:92019**
de Guzman, G. C. *see* **Kelso, J. A. S., 89m:92023**
Győri, I. Connections between compartmental systems with pipes and integro-differential equations. **89c:92020**
— (*with* Eller, J.) Modelling thrombopoiesis regulation. II. Mathematical investigation of the model. **89a:92020**
— *see also* **Eller, J.; et al., 89a:92019**
Hagstrom, T. M. (*with* Tewarson, R. P.) Partitioning and parallel algorithms for kidney models. (*see* **89d:00007**)
Haken, Hermann Synergetic computers for pattern recognition and associative memory. **89c:92021**
— Nonequilibrium phase transitions in pattern recognition and associative memory. **89e:92012**
— *see also* **Fuchs, Armin, 89h:92013**; (Not in MR) *and* **Neural and synergetic computers, 89i:92026**
Hamblen, J. O. *see* **Braham, R., 89i:92011**
Hansen, Alex A connection between the percolation transition and the onset of chaos in the Kauffman model. **89e:92013**
Hayashi, Katsuya *see* **Okamoto, Masahiro; et al.,** (Not in MR)
van Hemmen, J. L. (*with* Rzążewski, K.) Nonlinear neural networks with external noise. **89a:92021**
— (*with* Grensing, D.; Huber, A.; Kühn, Reimer) Nonlinear neural networks. I. General theory. **89i:92018**
— (*with* Grensing, D.; Huber, A.; Kühn, Reimer) Nonlinear neural networks. II. Information processing. **89m:92020**
— *see also* **Riedel, U.; et al., 89f:92023** *and* **Bös, S.; et al., 89j:92023**
Henry, Jacques (*with* Kaufman, François; Landau, Mayer; Pierret, C.) Utilisation de la methode de continuation-bifurcation en electrophysiologie cardiaque. [Use of the bifurcation-continuation method in cardiac electrophysiology] (*see* **89a:94001**)
Hertz, J. A. *see* **Krogh, A., 89g:92019**
Hestenes, David Inductive inference by neural networks. **89j:92030**
Hill, Terrell L. Interrelations between random walks on diagrams (graphs) with and without cycles. **89m:92021**
Holden, Arun V. Spatio-temporal patterns of activity in neural systems: simulation and analysis. (*see* **89f:92002**)
Holmåker, K. *see* **Bass, Ludvik; et al., 89f:92015**
Holmes, M. H. *see* **Rabbitt, R. D., 89h:92032**
Horii, Zen-Ichiro Tooth pattern: towards a mathematical principle to determine the patterns. (*see* **89g:82013**)
Horner, H. Dynamics of spin glasses and related models of neural networks. **89b:92015**
Horváth, Gábor Bionical investigation of the birch leaf roller's incisions. **89h:92017**
Hoshimiya, Nozomu *see* **Futami, Ryoko,** (Not in MR)
Huber, A. *see* **van Hemmen, J. L.; et al., 89i:92018** *and* **89m:92020**
Ikeda, Hideo (*with* Mimura, Masayasu; Tsujikawa, T.) Slow traveling wave solutions to the Hodgkin-Huxley equations. **89c:92022**
Illert, Christopher Roy (*with* Reverberi, Daniela) Holography reveals the soft anatomy of ancient cephalopods. **89b:92016**
Irvine, Douglas H. Efficient solution of nonlinear models expressed in S-system canonical form. **89h:92018**
— *see also* **Savageau, Michael A.; et al., 89c:92030** *and* **89c:92031**
Iskander-Zade, F. A. *see* **Aliev, I. V.; et al.,** (Not in MR)
Isobe, M. *see* **Kawato, M.; et al., 89h:92022**
Itô, Masayuki[1] Traveling train solutions of FitzHugh-Nagumo systems. **89a:92022**
Ito, Tadanao *see* **Kobuchi, Youichi; et al., (89f:92002)**
Izumida, Masanori *see* **Murakami, Kenji; et al., 89g:92021**
James, A. T. (*with* Wiskich, J. T.; Conyers, R. A. J.) Statistical modelling of mitochondrial power supply. **89k:92018**
Jean, Roger V. Number-theoretic properties of two-dimensional lattices. **89h:92019**
Jefferies, Brian *see* **Bass, Ludvik; et al., 89f:92015**
Jibu, Mari *see* **Yasue, Kunio; et al., 89d:92038**
Johannesma, P. I. M. (*with* Aertsen, A. M. H. J.) Conservation and dissipation in neurodynamics. **89a:92023**
Johnson, John L. Neural networks and the symmetric group S_N. (*see* **89b:00029**)
Josin, G. Neural-space generalization of a topological transformation. **89h:92020**
Jurisic, Nikola (*with* Perez, Estela) The electrodynamics of the nerve impulse. **89h:92021**
Kallianpur, G. (*with* Wolpert, Robert L.) Weak convergence of stochastic neuronal models. **89g:92017**
Kamp, Y. *see* **Bourlard, H., 89f:92016** *and* **Delsarte, P., 89m:92014**
Kanter, Ido Potts-glass models of neural networks. **89c:92023**
— Asymmetric neural networks with multispin interactions. **89j:92031**
Karr, A. F. *see* **Chornoboy, E. S.; et al., 89i:92012**
Katayama, Yoshishige (*with* Terauti, Ryutaro) A consideration on behaviours of solution near Turing instability point. (Japanese. English summary) (Not in MR)
— Effects of convection on Turing instability. (Japanese. English summary) (Not in MR)
Kaufman, François *see* **Henry, Jacques; et al., (89a:94001)**
Kaufman, M. Memory and paralysis phenomena in the immune response: interpretation in terms of multiple steady state transitions. (*see* **89g:92002**)
Kawato, M. (*with* Isobe, M.; Maeda, Yoshiharu; Suzuki, Ryoji[1]) Coordinates transformation and learning control for visually-guided voluntary movement with iteration: a Newton-like method in a function space. **89h:92022**
Keeler, James D. (*with* Pichler, Elgar E.; Ross, John) Noise in neural networks: thresholds, hysteresis, and neuromodulation of signal-to-noise. **89m:92022**
Keener, James P. (*with* Tyson, John J.) Spiral waves in the Belousov-Zhabotinskiĭ reaction. **89b:92017**
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— (*with* Tyson, John J.) The motion of untwisted untorted scroll waves in Belousov-Zhabotinsky reagent. **89d:92029**
Keidel, M. *see* **Mayer-Kress, Gottfried; et al., 89f:92020**
Keizer, Joel Electrical activity and insulin release in pancreatic beta cells. (*see* **89c:92002**)
Kellogg, R. B. *see* **Garner, J. B., 89k:92017**
Kelso, J. A. S. (*with* de Guzman, G. C.) Order in time: how the cooperation between the hands informs the design of the brain. **89m:92023**
Kennedy, John W. *see* **Gross, Robert; et al., 89c:92019**
Kernévez, J.-P. *see* **Trubuil, A.; et al., 89m:92032**
Kimmel, Marek (*with* Arino, Ovide) On active linear compartments. (*see* **89d:00007**)
King, R. Bruce Topological aspects of immunological control networks. **89d:92030**
Kinouchi, Yohsuke *see* **Endo, Shuji; et al.,** (Not in MR)
Kjær, N. J. *see* **Flyvbjerg, H., 89j:92027**
Knight, B. W. *see* **Sirovich, L., 89b:92019**
Knizhnikova, L. A. *see* **Vedenov, A. A.; et al., 89j:92040**
Kõberle, R. *see* **Fontanari, J. F., 89c:92015; 89c:92016** *and* **89c:92017**
Kobuchi, Youichi (*with* Ito, Tadanao; Ogiwara, Atsushi) A model for rouleaux pattern formation of red blood cells. Enumeration of absolutely stable patterns. (*see* **89f:92002**)
Koenderink, J. J. *see* **Toet, A.; et al., 89c:92034**
Kolotenko, G. A. (*with* Akhmedov, T. I.) Modeling of dominant systems of space-time connections of the brain by Erlang's law. (Russian) **89h:92023**
Kopell, N. (*with* Ermentrout, G. B.) Coupled oscillators and the design of central pattern generators. **89m:92024**
Koruga, Djuro *see* **Masnikosa, Vukasin P., (89a:94001)**
Kostyuk, G. Ya. *see* **Zhuchenko, S. P.; et al., 89e:92020** *and* **89e:92021**
Kowalski, Krzysztof Dynamics of the Scatchard model for ligand-receptor binding. **89h:92024**
Krauth, Werner (*with* Nadal, J.-P.; Mézard, Marc) The roles of stability and symmetry in the dynamics of neural networks. **89g:92018**
Krizsa, F. *see* **Eller, J.; et al., 89a:92019**
Krogh, A. (*with* Hertz, J. A.) Mean-field analysis of hierarchical associative networks with "magnetisation". **89g:92019**
Kühn, Reimer *see* **Riedel, U.; et al., 89f:92023; van Hemmen, J. L.; et al., 89i:92018; Bös, S.; et al., 89j:92023** *and* **van Hemmen, J. L.; et al., 89m:92020**
Kumagai, Yukio Fundamental considerations about higher-order correlated associative memory. (Japanese. English summary) **89a:92024**
Kürten, K. E. "Training" quasirandom neural networks. **89h:92025**
— Correspondence between neural threshold networks and Kauffman Boolean cellular automata. **89g:92020**
— An immune system model in discrete time based on the analogy with the central nervous system. **89i:92019**
— Critical phenomena in model neural networks. **89d:92031**
— *see also* **Chen, J. W.; et al., 89d:92021**
Kussul', È. M. Modeling of stochastic neural networks. (Russian) **89h:92026**
Lakrori, M. (*with* Cheruy, A.) Une commande nonlinéaire de bioprocédés fedbatch. (English summary) [A nonlinear control for fedbatch bioprocesses] (*see* **89c:00031**)
Lakshmanan, M. *see* **Rajasekar, S.,** (Not in MR)
Landau, Mayer *see* **Henry, Jacques; et al., (89a:94001)**
Lánská, Věra Statistical inference for stochastic neuronal models. (*see* **89f:92002**)
Lánský, P. (*with* Giorno, V.; Nobile, A. G.; Ricciardi, Luigi M.) A diffusion neuronal model and its parameters. **89i:92020**
— *see also* **Giorno, V.; et al., 89d:92024**
Larocque, David *see* **Glass, L.; et al., 89h:92014**
Lauffenburger, D. A. *see* **Linderman, Jennifer J., 89c:92024** *and* **Tranquillo, R. T.; et al., (89c:92002)**
Laugalys, Regimantas (*with* Švitra, Donatas) The dynamics of blood formation processes. (Russian. English and Lithuanian summaries) **89a:92025**
Lawrence, Charles E. *see* **Auger, Ivan E., 89m:92011**

Lee, Young Seek *see* **Rinzel, John, 89c:92029**

Le Roux, Marie-Noëlle (*with* Robert, Jacques) Modélisation de la diffusion d'un médicament dans une cellule sphérique. (English summary) [Numerical solution to the diffusion of a drug in a spherical cell] **89h:92027**

Levchenko, E. B. *see* **Vedenov, A. A.; et al., 89j:92040**

Lewis, Harold W., III (*with* Goel, Narendra S.; Thompson, Richard L.) Simulation of cellular compaction and internalization in mammalian embryo development. II. Models for spherical embryos. **89h:92028**

Linderman, Jennifer J. (*with* Lauffenburger, D. A.) Analysis of intracellular receptor/ligand sorting in endosomes. **89c:92024**

Liu, Qing (*with* Zhan, Ken Hua) A new strategy in immune response. (Chinese. English summary) **89j:92032**

Lomdahl, P. S. *see* **Eilbeck, J. C.; et al., 89e:92010**

Longtin, André (*with* Milton, John G.) Complex oscillations in the human pupil light reflex with "mixed" and delayed feedback. **89f:92019**

Lustig, Cornel (*with* Parnas, Hanna; Segel, L. A.) Neurotransmitter release: development of a theory for total release based on kinetics. (Not in MR)

Lyubich, Yu. I. On the mathematical theory of hypercycles. **89d:92032**

Ma, Zhenkui *see* **Patterson, Richard L., 89k:92020**

Madar, Igal On slow rhythmical fluctuation of neuronal excitability in cortical brain slices: an experimental study. (*see* **89g:58144**)

Maeda, Yoshiharu *see* **Kawato, M.; et al., 89h:92022**

Mahaffy, J. M. *see* **Busenberg, Stavros, 89m:92013**

Mamasakhlisov, E. Sh. *see* **Aslanyan, V. M.; et al., 89d:92019**

Manoranjan, V. S. *see* **Tyson, John J.; et al., 89k:92022**

Marcus, C. M. (*with* Westervelt, R. M.) Stability of analog neural networks with delay. **89m:92025**

Marmasse, Claude (*with* Wiener, Joseph) Studies of the differential equations of enzyme kinetics. II. Bimolecular reaction: the fitting of experimental data to the simplified model. **89h:92029**

Martiel, J.-L. *see* **Goldbeter, A., (89g:92002)**

Martínez Canalejo, H. Lagrangian formulation of a model for the regulation of the heart rate. (Spanish. English summary) **89c:92025**

Masnikosa, Vukasin P. (*with* Koruga, Djuro) Biological control systems and intelligence. (*see* **89a:94001**)

Masuyama, Motosaburo Quasiconstancy of human biochemical individual variability. (Not in MR)

— Invariant forms in proper times. (Not in MR)

— Two-compartment model in pharmacokinetics from the viewpoint of the almost-one parameter hypothesis. (Not in MR)

— On the quasi-constancy of individual variabilities of temporal variates. (Not in MR)

— Quasi-fixed points w.r.t. the height growth curve. (French summary) (Not in MR)

Mayer-Kress, Gottfried (*with* Yates, F. E.; Benton, L.; Keidel, M.; Tirsch, W.; Pöppl, S. J.; Geist, Karlheinz) Dimensional analysis of nonlinear oscillations in brain, heart, and muscle. **89f:92020**

McArthur, Richard D. Parameter estimation in a two-compartment population pharmacokinetic model with destructive sampling. **89j:92033**

Meir, Ronny Extensions of a solvable feed forward neural network. **89e:92014**

— *see also* **Derrida, B., 89h:92012**

Merkin, J. H. (*with* Scott, Stephen K.) A failure of the pool chemical approximation in chemical reaction dynamics. (Not in MR)

Mézard, Marc (*with* Nadal, J.-P.; Toulouse, G.) Solvable models of working memories. (French summary) **89i:92021**

— *see also* **Gutfreund, H., 89d:92027** *and* **Krauth, Werner; et al., 89g:92018**

Mikulecky, D. C. Topological contributions to the chemistry of living systems. (*see* **89b:92038**)

— When is a mechanism not a mechanism? The network thermodynamic approach to complex systems. (*see* **89d:00007**)

Milton, John G. *see* **Longtin, André, 89f:92019**

Mimura, Masayasu *see* **Ikeda, Hideo; et al., 89c:92022**

Mira, José (*with* Moreno-Diaz, R.; Delgado, A. E.) On cooperative languages for survival and neural decision making. **89b:92018**

Misawa, Tetsuya *see* **Yasue, Kunio; et al., 89d:92038**

Misra, J. C. (*with* Roy, S.) Free and forced vibrations of the cranial vault: study of a mathematical model. **89h:92030**

— (*with* Sahu, B. K.) Flow through blood vessels under the action of a periodic acceleration field. A mathematical analysis. **89j:92034**

Mittenthal, Jay E. *see* **Clarke, Bertrand S.; et al., 89g:92014**

Monk, P. B. *see* **DeYoung, G.; et al., 89k:92014**

Moodie, T. B. *see* **Sawatzky, R. P., 89e:92017** *and* **Gan, R. Z., (Not in MR)**

Moreno-Diaz, R. *see* **Mira, José; et al., 89b:92018**

Morozov, V. F. *see* **Aslanyan, V. M.; et al., 89d:92019**

Moumida, Driss *see* **Cosnard, Michel; et al., 89k:92013**

Müller, S. C. Spatial patterns in (bio)chemical reactions. (*see* **89g:92002**)

Murakami, Kenji (*with* Izumida, Masanori; Aibara, Tsunehiro) Two-stepped association procedure and its application to reduction of memory areas of associative memory. **89g:92021**

Murray, James D. *see* **Cheng, Louis Y.; et al., 89a:92018** *and* **Tyson, John J.; et al., 89k:92022**

Murtagh, F. *see* **Adorf, H.-M., 89m:92009**

Nadal, J.-P. *see* **Derrida, B., 89c:92013; Krauth, Werner; et al., 89g:92018; Mézard, Marc; et al., 89i:92021** *and* **Guyon, I.; et al., 89m:92019**

Nagorcka, B. N. A pattern formation mechanism to control spatial organization in the embryo of *Drosophila melanogaster*. **89d:92033**

Nelken, Israel Analysis of the activity of single neurons in stochastic settings. **89f:92021**

Nesterenko, B. B. *see* **Zhuchenko, S. P.; et al., 89e:92020** *and* **89e:92021**

Nestorov, Ivan A. Decomposition of compartmental systems. (Bulgarian. English and Russian summaries) **89d:92034**

Nicolau, Edmond Utilization of systemic and cybernetic concepts in studying living systems: example of the neuron. (Not in MR)

Nir, Avinoam *see* **Zinemanas, Daniel, (Not in MR)**

Nobile, A. G. *see* **Giorno, V.; et al., 89d:92024** *and* **Lánský, P.; et al., 89i:92020**

Odell, Garret M. *see* **Cheng, Louis Y.; et al., 89a:92018**

Ogiwara, Atsushi *see* **Kobuchi, Youichi; et al., (89f:92002)**

Oğuztöreli, M. N. (*with* Steil, G. M.; Caelli, T. M.) Underlying neural computations for some visual phenomena. **89k:92019**

Okamoto, Masahiro (*with* Sakai, Toshio; Hayashi, Katsuya) Biochemical switching device realizing McCulloch-Pitts type equation. (Not in MR)

Opper, Manfred (*with* Diederich, Sigurd; Anlauf, Joachim K.) Statistical mechanics of learning in neural network models. **89m:92026**

Oster, George F. Lateral inhibition models of developmental processes. **89h:92031**

— *see also* **Cheng, Louis Y.; et al., 89a:92018**

Othmer, Hans G. *see* **DeYoung, G.; et al., 89k:92014**

Palm, G. (*with* Aertsen, A. M. H. J.; Gerstein, G. L.) On the significance of correlations among neuronal spike trains. **89d:92035**

Palsson, Bernhard O. (*with* Groshans, Thomas M.) Mathematical modelling of dynamics and control in metabolic networks. VI. Dynamic bifurcations in single biochemical control loops. **89c:92026**

Parisi, Giorgio Immunological memory in a network perspective. **89i:92022**

Parnas, Hanna *see* **Lustig, Cornel; et al., (Not in MR)**

Patterson, Richard L. (*with* Ma, Zhenkui) Statistical distributions of compartmentalized populations governed by continuous time, discrete state semi-Markov processes. **89k:92020**

— Regression estimates of stochastic compartmental parameters using net balance and cumulative flow data. **89m:92027**

Peletier, L. A. *see* **de Graaf, J. M., 89j:92029**

Perez, Estela *see* **Jurisic, Nikola, 89h:92021**

Perez Vicente, Conrado J. (*with* Amit, Daniel J.) Optimised network for sparsely coded patterns. **89m:92028**

Personnaz, L. *see* **Guyon, I.; et al., 89m:92019**

Pessa, E. Symmetry breaking and Goldstone modes in neural nets. **89j:92035**

— Symmetry breaking in neural nets. **89k:92021**

Pichler, Elgar E. *see* **Keeler, James D.; et al., 89m:92022**

Pierret, C. *see* **Henry, Jacques; et al., (89a:94001)**

Pineda, Fernando J. Dynamics and architecture for neural computation. **89m:92029**

Popov, Yu. P. *see* **Aliev, I. V.; et al., (Not in MR)**

Pöppl, S. J. *see* **Mayer-Kress, Gottfried; et al., 89f:92020**

Porati, A. *see* **Granero-Porati, M. I., 89h:92016**

Poznański, R. R. Techniques for obtaining analytical solutions for the somatic shunt cable model. **89c:92027a**

— Membrane voltage changes in passive dendritic trees: a tapering equivalent cylinder model. **89f:92022**

— Erratum: "Techniques for obtaining analytical solutions for the somatic shunt cable model". **89c:92027b**

Prigogine, Ilya *see* **Ding, Da Fu, 89g:92015**

Pugh, S. *see* **Ross, John; et al., (89g:92002)**

Qi, An Shen *see* **Wu, Yun Qing, 89j:92043**

Quintas, Louis V. *see* **Gross, Robert; et al., 89c:92019**

Rabbitt, R. D. (*with* Holmes, M. H.) Three-dimensional acoustic waves in the ear canal and their interaction with the tympanic membrane. **89h:92032**

Rajasekar, S. (*with* Lakshmanan, M.) Period-doubling bifurcations, chaos, phase-locking and devil's staircase in a Bonhoeffer-van der Pol oscillator. (Not in MR)

Rangan, A. (*with* Grace, R. Esther) A note on the selective interaction of two types of events resulting from a renewal point process and its applications. **89e:92015**

Rautmann, R. Global bounds for some reaction diffusion processes. **89c:92028**

Reineri, M. T. *see* **Favella, L.; et al., 89i:92015**

Reverberi, Daniela *see* **Illert, Christopher Roy, 89b:92016**

(Ricard, Jacques) *see* **Szathmáry, Eörs, 89g:92022**

Ricciardi, Luigi M. *see* **Giorno, V.; et al., 89d:92024** *and* **Lánský, P.; et al., 89i:92020**

Rice, John A. *see* **Fredkin, Donald R., 89d:92023**

Richards, Gareth D. *see* **Śmieja, Frank J., (Not in MR)**

Riedel, U. (*with* Kühn, Reimer; van Hemmen, J. L.) Temporal sequences and chaos in neural nets. **89f:92023**

Rinzel, John A formal classification of bursting mechanisms in excitable systems. **89f:92024**

— (*with* Lee, Young Seek) Dissection of a model for neuronal parabolic bursting. **89c:92029**

Rivièr, N. Structure of random cellular networks. (*see* **89g:82013**)

Robert, Jacques *see* **Le Roux, Marie-Noëlle, 89h:92027**

Röschke, J. *see* **Başar, E.; et al., (89g:92002)**

Ross, John (*with* Pugh, S.; Schell, Mark) Spectral kinetics and the efficiency of (bio)chemical reactions. (*see* **89g:92002**)

— *see also* **Keeler, James D.; et al., 89m:92022**

Rouvray, D. H. The challenge of characterizing branching in molecular species. **89e:92016**

Rovida, S. *see* **Colli Franzone, P.; et al., 89i:92013**

Roy, S. *see* **Misra, J. C., 89h:92030**

Ruijgrok, Th. W. *see* **Coolen, A. C. C., 89j:92026**

Rzążewski, K. *see* **van Hemmen, J. L., 89a:92021**

Sachs, T. Epigenetic selection: an alternative mechanism of pattern formation. (Not in MR)

Saha, A. K. (*with* Tapaswi, P. K.) Model for the epigenetic mechanism during embryogenesis: a study of oscillations in a multiple-loop biochemical control network. **89h:92033**

Sahu, B. K. *see* **Misra, J. C., 89j:92034**

Sakai, Toshio *see* **Okamoto, Masahiro; et al., (Not in MR)**

Sankoff, David *see* **Ferretti, Vincent, 89m:92017**

Saul, Alan (*with* Showalter, Kenneth) Propagating reaction-diffusion fronts. (Russian) (*see* **89f:92003**)

Savageau, Michael A. (*with* Voit, Eberhard O.; Irvine, Douglas H.) Biochemical systems theory and metabolic control theory. I. Fundamental similarities and differences. **89c:92030**

— (*with* Voit, Eberhard O.; Irvine, Douglas H.) Biochemical systems theory and metabolic control theory. II. The role of summation and connectivity relationships. **89c:92031**

Sawatzky, R. P. (*with* Moodie, T. B.) Aspects of wave propagation in haemodynamics: a survey. **89e:92017**
Schell, Mark *see* **Ross, John; et al.**, **(89g:92002)**
Schierwagen, A. Distributed parameter systems as models of current flow in nerve cells with branched dendritic trees: inverse and forward problems. **89j:92036**
Schramm, L. P. *see* **Chornoboy, E. S.; et al.**, **89i:92012**
Schulten, K. *see* **Buhmann, J.; et al.**, **89m:92012**
Scott, A. C. Davydov's soliton. **89c:92032**
— *see also* **Eilbeck, J. C.; et al.**, **89e:92010**
Scott, Stephen K. *see* **Merkin, J. H.**, (Not in MR)
Segel, L. A. Theoretical biology as a branch of applied mathematics: some examples. **89i:92023**
— Dynamic phenomena in molecular and cellular biology. (*see* **89g:92002**)
— On the validity of the steady state assumption of enzyme kinetics. **89j:92037**
— Some nonstandard modeling techniques in theoretical biology. **89i:92024**
— *see also* **Lustig, Cornel; et al.**, (Not in MR)
Sen, Asok K. An application of the Adomian decomposition method to the transient behavior of a model biochemical reaction. **89a:92026**
Seoane, M. *see* **Trubuil, A.; et al.**, **89m:92032**
Serra, Roberto (*with* Zanarini, G.; Fasano, F.) Generalized Hopfield learning rules. **89j:92038**
Seymour, R. M. *see* **Antonelli, P. L.**, **89a:92016**
Shao, Xiu Min A numerical method for the identification of linear compartmental systems. **89m:92030**
Sharan, Maithili *see* **Singh, Mahendra Pal; et al.**, (Not in MR)
Shepp, L. A. *see* **Vanderbei, R. J.**, **89i:92025**
Shivaji, Ratnasingham Remark on an application of a sufficient condition for nonuniqueness to a model in immobilized enzyme systems. **89f:92025**
Showalter, Kenneth *see* **Saul, Alan**, **(89f:92003)**
Singh, Mahendra Pal (*with* Sharan, Maithili; Sud, Indu) The process of gas exchange in systemic circulation in a hyperbaric environment: an analytical approach. (Not in MR)
Sirovich, L. (*with* Knight, B. W.) Two-scale eigenfunction methods with an application to the visual system. **89b:92019**
Small, J. Rankin (*with* Fell, David A.) The matrix method of metabolic control analysis: its validity for complex pathway structures. (Not in MR)
Śmieja, Frank J. (*with* Richards, Gareth D.) Hard learning the easy way: backpropagation with deformation. (Not in MR)
Smith, Hal Oscillations and multiple steady states in a cyclic gene model with repression. **89f:92026**
Sommers, H.-J. *see* **Sompolinsky, H.; et al.**, **89f:92027**
Sompolinsky, H. (*with* Crisanti, A.; Sommers, H.-J.) Chaos in random neural networks. **89f:92027**
Sorribas, Albert Alternative *S*-system representations for reversible biochemical pathways. (*see* **89d:00007**)
Stadje, W. Asymptotic normality in a two-dimensional random walk model for cell motility. **89h:92034**
Stech, Harlan W. A numerical analysis of the structure of periodic orbits in autonomous functional-differential equations. **89c:92033**
Steil, G. M. *see* **Oğuztöreli, M. N.; et al.**, **89k:92019**
Storm, Joachim Über ein Steuerungsproblem für endliche stochastische zellulare Systeme. [On a control problem for finite stochastic cellular systems] **89m:92031**
Strel′tsov, Yu. P. The interaction of subsystems in mathematical modeling of the physiology of plants. (Russian) (*see* **89j:00017**)
Sud, Indu *see* **Singh, Mahendra Pal; et al.**, (Not in MR)
Sutton, J. P. (*with* Beis, J. S.; Trainor, L. E. H.) A hierarchical model of neocortical synaptic organization. (*see* **89d:00007**)
Suzuki, Ryoji^1 *see* **Kawato, M.; et al.**, **89h:92022**
Švitra, Donatas The role of delay in mathematical models of physiological systems of an organism. (Russian. English and Lithuanian summaries) **89b:92020**
— *see also* **Laugalys, Regimantas**, **89a:92025**
Szathmáry, Eörs A hypercyclic illusion. Comment on: "Dynamics of multi-enzyme reactions, cell growth and perception of ionic signals from the external milieu" [J. Theoret. Biol. **128** (1987), no. 3, 253–278; MR 88k:92035] by J. Ricard. **89g:92022**
Talapatra, R. N. *see* **Chakrabarti, C. G.**, **89d:92020**
Tapaswi, P. K. *see* **Saha, A. K.**, **89h:92033**
Taylor, John G. *see* **Gorse, D.**, **89h:92015**
Terauti, Ryutaro *see* **Katayama, Yoshishige**, (Not in MR)
Tereshchenko, V. A. The stressed state of the surface of nonmuscle cells. (Russian) **89g:92023**
Tewarson, R. P. *see* **Hagstrom, T. M.**, **(89d:00007)**
Thompson, Richard L. *see* **Lewis, Harold W., III; et al.**, **89h:92028**
Tirsch, W. *see* **Mayer-Kress, Gottfried; et al.**, **89f:92020**
Tobias, T. *see* **Engelbrecht, Jüri; et al.**, **89c:92014**
Toet, A. (*with* Blom, J. G.; Koenderink, J. J.) The constructon of a simultaneous functional order in nervous systems. IV. The influence of physical constraints on the resulting functional order. **89c:92034**
Tong, Qin Ye (*with* Wang, Yi Xing; Zheng, Lu Dan) A dual-channel nonlinear dynamic model of a heart cell. (Chinese. English summary) **89j:92039**
Torelli, A. *see* **Comincioli, V.**, **89j:92025**
Toulouse, G. *see* **Mézard, Marc; et al.**, **89i:92021**
Toussaint, Godfried T. Computational geometry and morphology. (*see* **89g:82013**)
Trainor, L. E. H. *see* **Sutton, J. P.; et al.**, **(89d:00007)**
Tranquillo, R. T. (*with* Fisher, E. S.; Farrell, B. E.; Lauffenburger, D. A.) A stochastic model for chemosensory cell movement: application to neutrophil and macrophage persistence and orientation. (*see* **89c:92002**)
Triffet, T. *see* **Green, H. S.**, **89d:92026** *and* **89i:92017**
Troy, William C. Mathematical analysis of the Oregonator model of the Belousov-Zhabotinskii reaction. (Russian) (*see* **89f:92003**)
Trubuil, A. (*with* Seoane, M.; Kernévez, J.-P.) Control of folds. **89m:92032**
Tsujikawa, T. *see* **Ikeda, Hideo; et al.**, **89c:92022**
Tuckwell, Henry C. Diffusion approximations to channel noise. **89h:92035**
— Nonlinear random reaction-diffusion systems. **89m:92033**
Tyrcha, Joanna A model of constant transition probability in cell-cycle investigations. (Polish. English summary) **89d:92036**
Tyson, John J. Size control of cell division. **89c:92035a**
— Errata: "Size control of cell division". **89c:92035b**
— A quantitative account of oscillations, bistability, and traveling waves in the Belousov-Zhabotinskii reaction. (Russian) (*see* **89f:92003**)
— (*with* Alexander, Kevin A.; Manoranjan, V. S.; Murray, James D.) Spiral waves of cyclic AMP in a model of slime mold aggregation. **89k:92022**
— *see also* **Keener, James P.**, **89b:92017** *and* **89d:92029**
Ulam, Stan Reflections on the brain's attempts to understand itself. (*see* **89m:01133a**)
Ushita, Tomiyuki *see* **Endo, Shuji; et al.**, (Not in MR)
Uus, Anu *see* **Engelbrecht, Jüri; et al.**, **89c:92014**
Vanderbei, R. J. (*with* Shepp, L. A.) A probabilistic model for the time to unravel a strand of DNA. **89i:92025**
Vedenov, A. A. (*with* Ezhov, A. A.; Knizhnikova, L. A.; Levchenko, E. B.; Chernov, Yu. G.) Nonlinear systems with memory and the modeling of the functions of neural nets. (Russian) **89j:92040**
Ventriglia, F. Computational simulation of activity of cortical-like neural systems. **89e:92018**
Voit, Eberhard O. *see* **Savageau, Michael A.; et al.**, **89c:92030** *and* **89c:92031**
Vorotyntsev, A. V. Use of an optimality principle for the description of growth functions in models of plant growth. (Russian) **89e:92019**
Wan Abdullah, Wan Ahmad Tajuddin Computations with neural networks and neural-network-like structures. (*see* **89b:00021**)
Wang, Yi Xing *see* **Tong, Qin Ye; et al.**, **89j:92039**
Weisbuch, Gérard Patterns in random Boolean nets. (*see* **89b:58064**)
Westervelt, R. M. *see* **Marcus, C. M.**, **89m:92025**
Whitehead, Edward P. Symmetry in protein structure and function. (*see* **89m:00011**)
Wiener, Joseph *see* **Marmasse, Claude**, **89h:92029**
Willis, J. B. Wave disturbances in laminar nerve networks. (*see* **89d:00007**)
Winfree, Arthur T. (*with* Guilford, W.) The dynamics of organizing centers: numerical experiments in differential geometry. **89j:92041**
— Organizing centers for chemical waves in two and three dimensions. (Russian) (*see* **89f:92003**)
Wiskich, J. T. *see* **James, A. T.; et al.**, **89k:92018**
Wolpert, Robert L. *see* **Kallianpur, G.**, **89g:92017**
Wong, A. Jun-Wei Recognition of general patterns using neural networks. **89f:92028**
Wu, Jiong Yu A mathematical model for the production of human leucocytes. (Chinese. English summary) **89j:92042**
Wu, Yun Qing (*with* Qi, An Shen) A qualitative study of a model describing logistic growth under the inhibition of chalones. (Chinese. English summary) **89j:92043**
Wurtz, Michel Structural and dynamic transformations in molecular biology. (*see* **89m:00011**)
Xu, Jing Hua *see* **Xu, Nan**, **89h:92036**
Xu, Nan (*with* Xu, Jing Hua) The fractal dimension of EEG as a physical measure of conscious human brain activities. **89h:92036**
Xu, Shao Ying A study of the calculation of moments in pharmacokinetics. (Chinese. English summary) **89d:92037**
Yakymiv, Ya. M. *see* **Gachok, V. P.**, **89i:92016**
Yamanaka, K. *see* **Agu, M.**, **(89g:82013)**
Yarmush, Martin L. *see* **Gross, Robert; et al.**, **89c:92019**
Yasue, Kunio (*with* Jibu, Mari; Misawa, Tetsuya; Zambrini, J.-C.) Stochastic neurodynamics. **89d:92038**
Yates, F. E. *see* **Mayer-Kress, Gottfried; et al.**, **89f:92020**
Zambrini, J.-C. *see* **Yasue, Kunio; et al.**, **89d:92038**
Zanarini, G. *see* **Serra, Roberto; et al.**, **89j:92038**
Zeitouni, O. *see* **Dembo, A.**, **89c:92012**
Zhan, Ken Hua *see* **Liu, Qing**, **89j:92032**
Zhang, Shuang Lin A stochastic model for high or low ion concentrations in cells. (Chinese. English summary) **89k:92023**
Zheng, Lu Dan *see* **Tong, Qin Ye; et al.**, **89j:92039**
Zhuchenko, A. P. *see* **Zhuchenko, S. P.; et al.**, **89e:92020** *and* **89e:92021**
Zhuchenko, S. P. (*with* Zhuchenko, A. P.; Baltaĭtis, Yu. V.; Kostyuk, G. Ya.; Nesterenko, B. B.) Principles for constructing a mathematical model for the peristalsis of the small intestine. (Russian) **89e:92020**
— (*with* Zhuchenko, A. P.; Baltaĭtis, Yu. V.; Kostyuk, G. Ya.; Nesterenko, B. B.) Investigation of peristaltic processes using a mathematical model. (Russian) **89e:92021**
Zinemanas, Daniel (*with* Nir, Avinoam) On the viscous deformation of biological cells under anisotropic surface tension. (Not in MR)
Zöllei, M. *see* **Eller, J.; et al.**, **89a:92019**

Items listed otherwise than by author

Neural and synergetic computers ★ Neural and synergetic computers. **89i:92026**
Schloss Elmau ★ Neural and synergetic computers. **89i:92026**
Symposium:
Neural and Synergetic Computers ★ Neural and synergetic computers. **89i:92026**

Items with secondary classifications in 92A09

Abulesz, E.-M. (*with* Lyberatos, G.) Novel approach for determining optimal treatment regimen for cancer chemotherapy. (Not in MR)
Afraĭmovich, V. S. The Lyapunov dimension of invariant sets in a model of an active medium. (Russian) **89g:58124**
Agu, M. Field theory of pattern identification. **89g:92063**
Alstrøm, Preben (*with* Christiansen, Bo; Levinsen, Mogens T.) Nonchaotic transition from quasiperiodicity to complete phase locking. **89i:58073**
Anderson, David Hezekiah (*with* McWilliams, Joseph G.; Roller, Towanna) The unilateral circulation compartmental model. **89h:92003**
Anderson, James R. *see* **Peterson, Carsten**, **89d:90176**

Arbib, Michael A. ★ Brains, machines, and mathematics. **89h:68034**
Aronson, D. G. (*with* Doedel, E. J.; Othmer, Hans G.) An analytical and numerical study of the bifurcations in a system of linearly-coupled oscillators. **89d:58091**
Ashby, F. Gregory Counting and timing models in psychophysics and the conjoint Weber's law. **89c:92089**
Augustín, J. *see* **Baláž, Š.; et al., 89f:92011**
Baĭdosov, V. A. (*with* Lenskiĭ, S. V.) An optimization mathematical model for the maturation of the immune response of an organism taking into account the auto-immune component. (Russian) **89a:92008**
Balaceanu, Constantin *see* **Burstein, Gabriel; et al., 89c:58004**
Baláž, Š. (*with* Šturdík, E.; Augustín, J.) Subcellular distribution of compounds in biosystems. **89f:92011**
Baldi, Pierre (*with* Venkatesh, Santosh S.) Number of stable points for spin-glasses and neural networks of higher orders. **89a:82025**
— Group actions and learning for a family of automata. **89f:68055**
Barkley, Dwight Near-critical behavior for one-parameter families of circle maps. **89f:58095**
Bazarov, M. V. *see* **Shokin, Yu. I.; et al., 89g:65061**
Belotserkovskiĭ, O. M. (*with* Vinogradov, A. V.; Glazunov, A. S.) Mathematical modeling of the dynamics of the development of myocardial infarction. (Russian) **89f:92006**
Berezovskiĭ, A. A. Spatial localization of cryo-action on biological tissues. (Russian) (Not in MR)
— *see also* **Mitropol′skiĭ, Yu. A., 89d:80019**
Bertuzzi, A. (*with* Gandolfi, A.; Lucidi, S.) Constrained cross-validation applied to estimation of kinetic parameters of cell populations in perturbed growth. **89m:92042**
Bestman, A. R. Unsteady low Reynolds number flow in a heated tube of slowly varying section. **89k:76043**
Borckmans, P. (*with* Dewel, G.) Chemical structures and convection. (*see* **89g:92002**)
Bottini, S. An after-Shannon measure of the storage capacity of an associative noise-like coding memory. **89g:94019**
Bowers, Peter (*with* Noyes, Richard M.) Gas evolution oscillators. (Russian) (*see* **89f:92003**)
Brankov, Georgi ★ Квантова биомеханика. (Bulgarian) [Quantum biomechanics] **89m:92008**
Budelli, R. *see* **Diez Martinez, O.; et al., 89j:92004**
Burstein, Gabriel (*with* Nicu, Mihail D.; Balaceanu, Constantin) Simplicial differential geometric theory for language cortical dynamics. **89c:58004**
Carlton, E. H. Connection between internal representation of rigid transformation and cortical activity paths. **89i:92070**
Carpenter, G. A. (*with* Grossberg, S.) Self-organizing neural network architectures for real-time adaptive pattern recognition. (*see* **89i:92026**)
Cartianu, Dan ★ Synchronization phenomena in reaction-diffusion systems. **89j:92002**
Chen, Sui Yang *see* **Guo, Ben Yu; et al., 89a:65188**
Cherruault, Y. (*with* Guillez, A.) Identification des systèmes compartimentaux ordinaires. Les programmes FELICITY et SOPHIE-ALICE. [Identification of ordinary compartmental systems. The programs FELICITY and SOPHIE-ALICE] **89b:92002**
Christensen, S. K. (*with* Kallianpur, G.) Stochastic differential equations for neuronal behavior. **89c:60070**
Christiansen, Bo *see* **Alstrøm, Preben; et al., 89i:58073**
Chua, Leon O. *see* **Kennedy, Michael Peter, 89d:90192**
Colli, Pierluigi (*with* Comincioli, V.; Naldi, Giovanni; Reggiani, Carlo) Mathematical modelling for contracting muscle. **89i:92003**
Comincioli, V. (*with* Torelli, A.) A mathematical model of contracting muscle with viscoelastic elements. **89d:92005**
— *see also* **Colli, Pierluigi; et al., 89i:92003**
Cosnard, Michel (*with* Moumida, Driss; Goles Ch., Eric; de St. Pierre, Thierry) Dynamical behavior of a neural automaton with memory. **89h:68109**
Cowin, Stephen C. Form adaptation of individual biological structures to mechanical stress. (*see* **89g:82013**)
Cronin, Jane ★ Mathematical aspects of Hodgkin-Huxley neural theory. **89a:92001**
Cross, M. C. Theoretical methods in pattern formation in physics, chemistry and biology. (*see* **89j:82002**)
Demetrius, Lloyd An extremal principle of macromolecular evolution. **89d:92046**
Demp, Philip H. A mathematical taxonomy to evaluate the biomechanical quality of the human foot. (*see* **89d:00007**)
Derrida, B. *see* **Gardner, E., 89j:82060**
Dewel, G. *see* **Borckmans, P., (89g:92002)**
Diez Martinez, O. (*with* Pérez, P.; Budelli, R.; Segundo, J. P.) Locking, intermittency, and bifurcations in a periodically driven pacemaker neuron: Poincaré maps and biological implications. **89j:92004**
Doedel, E. J. *see* **Aronson, D. G.; et al., 89d:58091**
D′yachenko, A. I. (*with* Lyubimov, G. A.) Equations of the dynamics of a lung parenchyma, considered as a multiphase continuum. (Russian) **89e:92003**
Easthope, Peter L. (*with* Havel, Timothy F.) Computational experience with an algorithm for tetrangle inequality bound smoothing. **89m:92064**
Elphick, Christian (*with* Meron, Ehud; Spiegel, E. A.) Spatiotemporal complexity in traveling patterns. **89g:58150**
Emel′yanenko, I. S. (*with* Pyt′eva, T. P.; Frolov, V. A.) Detectors of a boundary and a strip in problems of morphological analysis of images of mitochondria. (Russian) **89k:92001**
Ezhov, A. A. *see* **Vedenov, A. A.; et al., 89h:92073**
Fitzgibbon, W. E. A hyperbolic system from a neural transmission model. **89h:35227**
Fletcher, N. H. Bird song—a quantitative acoustic model. (Not in MR)
Flores, Gilberto A global description of a one-dimensional threshold: the stable manifold of the stationary wave of the Nagumo equation. (Spanish) (*see* **89k:00010**)
Foiaş, Ciprian (*with* Jolly, M. S.; Kevrekidis, I. G.; Sell, George R.; Titi, E. S.) On the computation of inertial manifolds. **89k:65154**
Fort, J.-C. Solving a combinatorial problem via self-organizing process: an application of the Kohonen algorithm to the traveling salesman problem. **89e:90084**
Frecker, R. C. (*with* MacLean, W. J.) Mathematical approaches to modelling the oculomotor control system. **89i:92004**
Frolov, V. A. *see* **Emel′yanenko, I. S.; et al., 89k:92001**
Fujii, Hiroshi (*with* Nishiura, Yasumasa) On the phenomenon of multiple existence of stable equilibria. Coexistence of stable singularly perturbed solutions in systems of reaction-diffusion equations. **89b:35073**
— (*with* Nishiura, Yasumasa; Hosono, Yuzo) On the structure of multiple existence of stable stationary solutions in systems of reaction-diffusion equations. **89b:35074**
Fukui, Kenichi Orbital presentation of chemical reactions. (*see* **89m:01069**)
Fung, Y. C. Nonlinear mechanics of the lung. (*see* **89c:92002**)
Gandolfi, A. *see* **Bertuzzi, A.; et al., 89m:92042**
Gardner, E. Multiconnected neural network models. **89a:82040**
— (*with* Derrida, B.) Optimal storage properties of neural network models. **89j:82060**
Garner, J. B. (*with* Shivaji, Ratnasingham) Existence and uniqueness of solutions to a class of singular diffusion problems. **89k:34021**
— Analysis of diffusion problems in physiology. **89i:34018**
Gerasimenko, V. I. (*with* Stashenko, M. A.) Mathematical problems in the description of a system of electrolyte-membrane solutions. (Russian) **89k:82112**
Giannakopoulos, F. *see* **von Seelen, W.; et al., (89i:92026)**
Glazunov, A. S. *see* **Belotserkovskiĭ, O. M.; et al., 89f:92006**
Goel, Narendra S. (*with* Thompson, Richard L.) Movable finite automata (MFA) models for biological systems. II. Protein biosynthesis. **89f:92004**
— *see also* **Thompson, Richard L., 89b:92005**
Golden, R. M. A unified framework for connectionist systems. **89e:92051**
Goldstein, Larry Mark (*with* Waterman, Michael S.) Mapping DNA by stochastic relaxation. **89d:92042**
Golema, Marian (*with* Jaśkiewicz, Genadiusz) Identification of the balance keeping process in standing position in the presence of short-term disturbances. (Polish. English and Russian summaries) (Not in MR)
Goles Ch., Eric *see* **Cosnard, Michel; et al., 89h:68109**
Gomatam, Jagannathan (*with* Grindrod, Peter) Three-dimensional waves in excitable reaction-diffusion systems. **89c:35086**
Górski, A. Symmetry-breaking in reaction-diffusion systems with fixed traps. **89f:35111**
Gorunovich, V. V. (*with* Malyshev, P. V.) Solution of a problem on the convective diffusion of electrolytes in the potential field of a membrane. (Russian) (*see* **89j:82003**)
Grindrod, Peter *see* **Gomatam, Jagannathan, 89c:35086**
Grossberg, S. *see* **Carpenter, G. A., (89i:92026)** *and* **Neural networks and natural intelligence, 89m:92062**
Guillez, A. Systèmes compartimentaux à retard interne. Anaïs. [Compartmental systems with internal delay. Anaïs] **89g:92003**
— *see also* **Cherruault, Y., 89b:92002**
Guo, Ben Yu (*with* Mitchell, Andrew Ronald; Chen, Sui Yang) On a one-dimensional difference scheme in reaction diffusion. **89a:65188**
Guo, Zhong Wei (*with* McInnis, B. C.) Modeling of the blood circulatory system and adaptive control of artificial hearts. (Chinese. English summary) **89d:92013**
de la Harpe, Pierre Introduction to knot and link polynomials. **89m:57004**
Havel, Timothy F. *see* **Easthope, Peter L., 89m:92064**
van Hemmen, J. L. Pattern recognition in nonlinear neural networks. **89f:92066**
Hernández, Jesús Continuation and comparison methods for some nonlinear elliptic systems. **89a:35018**
Herzel, H. Complexity of symbol sequences. **89j:92049**
Hill, Terrell L. Number of visits to a state in a random walk, before absorption, and related topics. **89g:60229**
Hoschek, Josef (*with* Weber, Ulrich) Geometrische Modellbildung der menschlichen Kniebewegung. (English summary) [Geometric modelling of the motion of the human knee] **89c:92007**
Hosono, Yuzo *see* **Fujii, Hiroshi; et al., 89b:35074**
Hunding, Axel (*with* Sørensen, Preben Graae) Size adaptation of Turing prepatterns. **89k:92002**
Itoh, Takafumi *see* **Ohta, Yoshito; et al., 89i:90040**
Ivanov, Vyach. Vs. Language as a model of the world. (Russian) (*see* **89b:92032**)
Ivanova, A. N. *see* **Vol′pert, A. I., 89d:80024**
Jančys, E. *see* **Švitra, Donatas, 89i:34100**
Jaśkiewicz, Genadiusz *see* **Golema, Marian**, (Not in MR)
Jayaraman, G. *see* **Mehrotra, R., 89e:92005**
Jiang, Dong Ping Almost periodic solutions and periodic solutions of a forced Brusselator. (Chinese. English summary) **89j:34062**
Jolly, M. S. *see* **Foiaş, Ciprian; et al., 89k:65154**
Jones, Michael E. (*with* Taransky, Karen) Investigation of precursor-product relationships in radiotracer studies. **89i:92006**
Kallianpur, G. *see* **Christensen, S. K., 89c:60070**
Kanenobu, Masatsugu *see* **Nishimura, Michiko, 89m:34037**
Karbovskiĭ, I. N. Cycles in communities of threshold automata. **89j:68039**
Karetnyĭ, O. Ya. (*with* Kipnis, M. M.) Periodic operating modes of pulse-width control systems. II. **89j:49034**
— (*with* Kipnis, M. M.) Periodic operating modes of pulse-width control systems. I. (Russian. English summary) **89j:49033**
Karlin, Samuel Comparative analysis of structural relationships in DNA and protein sequences. (*see* **89b:92001**)
Katayama, Yoshishige *see* **Terauti, Ryutaro**, (Not in MR)
Kellogg, R. B. Some singular perturbation problems in renal models. **89a:92006**
Kennedy, Michael Peter (*with* Chua, Leon O.) Neural networks for nonlinear programming. **89d:90192**
Kevrekidis, I. G. *see* **Foiaş, Ciprian; et al., 89k:65154**
Khapaev, Mikhail Mikhaĭlovich *see* **Mal′kov, K. V., 89c:34043**
Kipnis, M. M. *see* **Karetnyĭ, O. Ya., 89j:49033** *and* **89j:49034**
Kitsos, C. P. (*with* Titterington, D. M.; Torsney, B.) An optimal design problem in rhythmometry. (French summary) **89h:62128**
Klingler, M. *see* **Meinhardt, Hans, (89g:92002)**
Knutsson, H. *see* **Wilson, Roland G., 89c:92092**
Kodama, Shinzo *see* **Ohta, Yoshito; et al., 89i:90040**
Kohonen, Teuvo ★ Self-organization and associative memory. **89c:68085**

Kolesov, A. Yu. (*with* Kolesov, Yu. S.; Mishchenko, E. F.; Rozov, N. Kh.) Multidimensional relaxation oscillations in media with diffusion. **89j:34050**
— *see also* **Kolesov, Yu. S., 89c:92065**
Kolesov, Yu. S. (*with* Kolesov, A. Yu.) Biological and physical parabolic systems. (Russian. English and Lithuanian summaries) **89c:92065**
— *see also* **Kolesov, A. Yu.; et al., 89j:34050**
Kolker, Yuri A piecewise-linear growth model: comparison with competing forms in batch culture. **89b:92026**
Koller, Theodor *see* **Stasiak, Andrzej, 89m:92035**
Kondaurov, V. I. (*with* Nikitin, L. V.) Finite strains of viscoelastic muscle tissue. **89e:92004**
Koplik, J. (*with* Redner, S.; Wilkinson, David John) Transport and dispersion in random networks with percolation disorder. **89b:82131**
Kozlov, V. N. *see* **Krushinskiĭ, L. V.; et al., 89j:92003**
Krushinskiĭ, L. V. (*with* Kozlov, V. N.; Kudryavtsev, V. B.) Some results of the application of mathematics to modeling in biology. (Russian) **89j:92003**
Kudryavtsev, V. B. *see* **Krushinskiĭ, L. V.; et al., 89j:92003**
Lábos, E. Convergence, cycling or strange motion in the adaptive synthesis of neurons. **89j:68130**
Langer, J. S. Lectures in the theory of pattern formation. (*see* **89j:82001**)
Lauria, Francesco E. On a learning neural network. **89j:92081**
Lax, Peter D. *see* **LeVeque, Randall J.; et al., 89b:92007**
Lenskiĭ, S. V. *see* **Baĭdosov, V. A., 89a:92008**
Levchenko, E. B. *see* **Vedenov, A. A.; et al., 89h:92073**
LeVeque, Randall J. (*with* Peskin, Charles S.; Lax, Peter D.) Solution of a two-dimensional cochlea model with fluid viscosity. **89b:92007**
Levinsen, Mogens T. *see* **Alstrøm, Preben; et al., 89i:58073**
Liang, Jin Reaction-diffusion systems without the quasimonotonicity condition. (Chinese. English summary) **89h:35160**
Lin, Chang-Shou (*with* Ni, W.-M.; Takagi, I.) Large amplitude stationary solutions to a chemotaxis system. **89e:35075**
Liu, Ya Cheng The global strong solutions of a class of systems of higher-dimensional semilinear diffusion equations arising in biology. (Chinese. English summary) **89a:35114**
Lizana, M. Asymptotic expansion for the initial value problem of the sunflower equation. **89h:34069**
Lucidi, S. *see* **Bertuzzi, A.; et al., 89m:92042**
Lyberatos, G. *see* **Abulesz, E.-M.,** (Not in MR)
Lyubich, Yu. I. Darwinian systems and their discrete analogues. (Russian) **89g:39004**
Lyubimov, G. A. *see* **D'yachenko, A. I., 89e:92003**
Ma, Fen Rong *see* **Zhu, Zhen Yuan,** (Not in MR)
MacLean, W. J. *see* **Frecker, R. C., 89i:92004**
Maeda, Hajime *see* **Ohta, Yoshito; et al., 89i:90040**
Malchow, Horst Dissipative pattern formation in ternary nonlinear reaction-electrodiffusion systems with concentration-dependent diffusivities. **89i:92009**
Mal'kov, K. V. (*with* Khapaev, Mikhail Mikhaĭlovich) Some methods in perturbation theory connected with averaging. (Russian) **89c:34043**
Mallot, H. A. *see* **von Seelen, W.; et al., (89i:92026)**
Malomed, B. A. Bifurcations and autowaves. (Russian) **89e:58031**
Malyshev, P. V. *see* **Gorunovich, V. V., (89j:82003)**
Manthey, R. On the Cauchy problem for reaction-diffusion equations with white noise. **89j:60080**
Masuyama, Motosaburo On the three-compartment model in pharmacokinetics from the viewpoint of the almost-one parameter hypothesis. (Not in MR)
McInnis, B. C. *see* **Guo, Zhong Wei, 89d:92013**
McWilliams, Joseph G. *see* **Anderson, David Hezekiah; et al., 89h:92003**
Mehrotra, R. (*with* Jayaraman, G.) Flow in a stenosed artery. **89e:92005**
Meinhardt, Hans (*with* Klingler, M.) Pattern formation by coupled oscillations: the pigmentation patterns on the shells of molluscs. (*see* **89g:92002**)
Meron, Ehud *see* **Elphick, Christian; et al., 89g:58150**
Mesterton-Gibbons, M. On the optimal compromise for a dispersing parasitoid. **89i:92055**
Mikhaĭlov, A. S. Graph identification by simulated annealing. **89f:05139**
Mirollo, R. E. *see* **Strogatz, S. H., 89i:82118a** *and* **89i:82118b**
Mishchenko, E. F. *see* **Kolesov, A. Yu.; et al., 89j:34050**
Misra, J. C. (*with* Samanta, S. C.) A mathematical model for the biomechanics of the body of a vertebra. (Not in MR)
— (*with* Samanta, S. C.) A mathematical analysis of the vibration characteristics of the human tibia. (Not in MR)
Mitchell, Andrew Ronald *see* **Guo, Ben Yu; et al., 89a:65188**
Mitropol'skiĭ, Yu. A. (*with* Berezovskiĭ, A. A.) A Stefan problem with a limit stationary state in special electrometallurgy, cryosurgery and the physics of seas. (Russian) **89d:80019**
Moumida, Driss *see* **Cosnard, Michel; et al., 89h:68109**
Mycielski, Jan A learning theorem for linear operators. **89f:41042**
Nakano, K. (*with* Niizuma, M.; Omori, T.) Model of neural visual system with self-organizing cells. **89j:92089**
Naldi, Giovanni *see* **Colli, Pierluigi; et al., 89i:92003**
Ni, W.-M. *see* **Lin, Chang-Shou; et al., 89e:35075**
Nicu, Mihail D. *see* **Burstein, Gabriel; et al., 89c:58004**
Niizuma, M. *see* **Nakano, K.; et al., 89j:92089**
Nikitin, L. V. *see* **Kondaurov, V. I., 89e:92004**
Nishimura, Michiko (*with* Kanenobu, Masatsugu) On the existence of limit cycle in Bonhoeffer-van der Pol equation. **89m:34037**
Nishiura, Yasumasa *see* **Fujii, Hiroshi, 89b:35073** *and* **89b:35074**
Novikov, Vyacheslav Aleksandrovich *see* **Shokin, Yu. I.; et al., 89g:65061**
Nowlan, Steven J. Gain variation in recurrent error propagation networks. (Not in MR)
Noyes, Richard M. *see* **Bowers, Peter, (89f:92003)**
Ohta, Yoshito (*with* Maeda, Hajime; Kodama, Shinzo; Itoh, Takafumi) Fault diagnosis of compartmental systems. **89i:90040**
Omori, T. *see* **Nakano, K.; et al., 89j:92089**
Othmer, Hans G. (*with* Watanabe, Masaji) On the collapse of the resonance structure in a three-parameter family of coupled oscillators. **89j:58098**
— *see also* **Aronson, D. G.; et al., 89d:58091**
Palm, G. Local synaptic rules with maximal information storage capacity. (*see* **89i:92026**)
Pawley, G. S. *see* **Wilson, Gregory Vance, 89b:90080**
Pérez, P. *see* **Diez Martinez, O.; et al., 89j:92004**
Peskin, Charles S. *see* **LeVeque, Randall J.; et al., 89b:92007**
Peterson, Carsten (*with* Anderson, James R.) Neural networks and NP-complete optimization problems; a performance study on the graph bisection problem. **89d:90176**
Petrina, D. Ya. The process of electrolytes passing through a membrane as a boundary value problem in domains with a fine-grained structure. (Russian) (*see* **89j:82003**)
— *see also* **Mathematical problems in the theory of systems of charged particles in inhomogeneous media, 89j:82003**
Plum, Michael Pointwise bounds for linear reaction-diffusion systems and an extension to nonlinear problems. **89k:35113**
Pochet, T. *see* **Sahloul, M., (89g:76003d)**
Prasad, Kislaya Parallel distributed processing models for economic systems and games. **89j:90073**
Pyt'eva, T. P. *see* **Emel'yanenko, I. S.; et al., 89k:92001**
Raaijmakers, Jeroen G. W. A formal model for associative memory. **89a:92072**
Redner, S. *see* **Koplik, J.; et al., 89b:82131**
Reggiani, Carlo *see* **Colli, Pierluigi; et al., 89i:92003**
Rogers, Joel C. W. The unique solution of a diffusion-consumption problem with hysteresis. (Russian and Polish summaries) **89f:35107**
Roller, Towanna *see* **Anderson, David Hezekiah; et al., 89h:92003**
Rozov, N. Kh. *see* **Kolesov, A. Yu.; et al., 89j:34050**
Saet, Yuly A. (*with* Viviani, G. L.) On the simulation of a paradigm of nonlinear dynamics. **89k:58195**
Sahloul, M. (*with* Pochet, T.) Modélisation mathématique et numérique de la circulation artérielle. [Mathematical and numerical modeling of arterial flow] (*see* **89g:76003d**)
Samanta, S. C. *see* **Misra, J. C.,** (Not in MR) *and* (Not in MR)
Savageau, Michael A. Introduction to *S*-systems and the underlying power-law formalism. (*see* **89d:00007**)
Schatzman, Michelle From a plateau to a thin mountain in the middle of a plain: asymptotic behaviour of nonlinear equations with a convolution term. **89a:35111**
Schempp, Walter The holographic transform and the neural model. **89h:92077**
— Elementary holograms and 3-orbifolds. **89k:22021**
von Seelen, W. (*with* Mallot, H. A.; Giannakopoulos, F.) Computation in cortical nets. (*see* **89i:92026**)
Segundo, J. P. *see* **Diez Martinez, O.; et al., 89j:92004**
Sell, George R. *see* **Foiaş, Ciprian; et al., 89k:65154**
Sergeev, Yu. V. ★ Моделирование взаимодействий биологических молекул. (Russian) [Modeling of the interactions of biological molecules] **89b:92036**
Shivaji, Ratnasingham *see* **Garner, J. B., 89k:34021**
Shokin, Yu. I. (*with* Novikov, Vyacheslav Aleksandrovich; Bazarov, M. V.) On the construction and package realization of interval methods for solving ordinary differential equations. **89g:65061**
Smith, Hal Systems of ordinary differential equations which generate an order preserving flow. A survey of results. **89f:34065**
Smolyaninov, V. V. From invariants of geometries to invariants of control. (Russian) **89g:92069**
Sod, G. A. A dictionary approach to reaction-diffusion systems with nonlinear diffusion coefficients. **89c:65135**
Sørensen, Preben Graae *see* **Hunding, Axel, 89k:92002**
Spiegel, E. A. *see* **Elphick, Christian; et al., 89g:58150**
Stashenko, M. A. *see* **Gerasimenko, V. I., 89k:82112**
Stasiak, Andrzej (*with* Koller, Theodor) Analysis of DNA knots and catenanes allows to deduce the mechanism of action of enzymes which cut and join DNA strands. **89m:92035**
de St. Pierre, Thierry *see* **Cosnard, Michel; et al., 89h:68109**
Strogatz, S. H. (*with* Mirollo, R. E.) Collective synchronisation in lattices of nonlinear oscillators with randomness. **89i:82118a**
— (*with* Mirollo, R. E.) Corrigendum: "Collective synchronisation in lattices of nonlinear oscillators with randomness". **89i:82118b**
Šturdík, E. *see* **Baláž, Š.; et al., 89f:92011**
Švitra, Donatas (*with* Jančys, E.) Investigation of some mathematical models for the dynamics of the level of thyroid hormones. (Russian. English and Lithuanian summaries) **89i:34100**
Takagi, I. *see* **Lin, Chang-Shou; et al., 89e:35075**
Taransky, Karen *see* **Jones, Michael E., 89i:92006**
Terauti, Ryutaro (*with* Katayama, Yoshishige) A consideration on behaviours of solution near Turing instability point. II. (Japanese. English summary) (Not in MR)
Thompson, Richard L. (*with* Goel, Narendra S.) Movable finite automata (MFA) models for biological systems. I. Bacteriophage assembly and operation. **89b:92005**
— *see also* **Goel, Narendra S., 89f:92004**
Titi, E. S. *see* **Foiaş, Ciprian; et al., 89k:65154**
Titterington, D. M. *see* **Kitsos, C. P.; et al., 89h:62128**
Tollar, Eric S. On the limit behavior of a multicompartment storage model with an underlying Markov chain. **89g:60301**
Torelli, A. *see* **Comincioli, V., 89d:92005**
Torsney, B. *see* **Kitsos, C. P.; et al., 89h:62128**
Tuckwell, Henry C. Perturbative analysis of random nonlinear reaction-diffusion systems. **89e:35149**
Tutty, O. R. Flow in a tube with a small side branch. **89m:76074**
Vedenov, A. A. (*with* Ezhov, A. A.; Levchenko, E. B.) Nonlinear dynamical systems with memory and functions of neuron ensembles. (Russian) **89h:92073**
Venkatesh, Santosh S. *see* **Baldi, Pierre, 89a:82025**
Ventriglia, F. Learning in a cortical-like neural system model. (*see* **89f:92002**)
Viana, L. Spin glass model for a neural network: associative memories stored with unequal weights. (French summary) **89c:92088**
Vila, Jorge Lattice gas with a weak long-range positive potential. **89b:82018**
Vinogradov, A. V. *see* **Belotserkovskiĭ, O. M.; et al., 89f:92006**
Viviani, G. L. *see* **Saet, Yuly A., 89k:58195**

Vol'pert, A. I. (*with* Ivanova, A. N.) Mathematical models in chemical kinetics. (Russian) 89d:80024

Walgraef, Daniel Spatio-temporal phase patterns near a Hopf bifurcation in 2d systems. (*see* 89f:76003)

Wan Abdullah, Wan Ahmad Tajuddin Biologic. 89k:92084

Watanabe, Masaji *see* **Othmer, Hans G.**, 89j:58098

Waterman, Michael S. *see* **Goldstein, Larry Mark**, 89d:92042

Weber, Ulrich *see* **Hoschek, Josef**, 89c:92007

Wilkinson, David John *see* **Koplik, J.; et al.**, 89b:82131

Wilson, Gregory Vance (*with* Pawley, G. S.) On the stability of the travelling salesman problem algorithm of Hopfield and Tank. 89b:90080

Wilson, Roland G. (*with* Knutsson, H.) Uncertainty and inference in the visual system. 89c:92092

Winfree, Arthur T. ★ When time breaks down. 89b:92009

Wu, Zhen Xin Qualitative analysis of a class of systems of reaction-diffusion equations. (Chinese) 89i:35083

Zak, M. The least constraint principle for learning in neurodynamics. 89m:92060

Zhu, Zhen Yuan (*with* Ma, Fen Rong) The theorem of minimum internal entropy change. (Not in MR)

Items listed otherwise than by author

Mathematical problems in the theory of systems of charged particles in inhomogeneous media ★ Математические проблемы теории систем заряженных частиц в неоднородных средах. (Russian) [Mathematical problems in the theory of systems of charged particles in inhomogeneous media] 89j:82003

Neural networks and natural intelligence ★ Neural networks and natural intelligence. 89m:92062

92A10 Genetics

Alwash, M. A. On a differential equation in population genetics. (Arabic summary) 89g:92024

Beder, B. Allelic frequencies given the sample's common ancestral type. 89d:92039

Boucher, Wayne Calculation of the inbreeding coefficient. 89d:92040

— (*with* Nagylaki, Thomas) Regular systems of inbreeding. 89k:92024

Bulmer, M. G. Genetic models of endosperm evolution in higher plants. 89e:92022

Bürger, Reinhard Evolutionary dynamics of functionally constrained phenotypic characters. 89d:92041

— Mutation-selection balance and continuum-of-alleles models. 89k:92025

Burks, Christian *see* **Perlwitz, Marcela D.; et al.**, 89d:92043

Campbell, R. B. Regular systems of inbreeding with mutation. 89i:92027

Cannings, C. (*with* Law, R.) Conditions for the initial increase of new alleles with frequency dependent selection. 89c:92036

— *see also* **Vickers, G. T.**, 89g:92032

Cao, Sheng Yan (*with* Zhao, You Yuan) Progeny testing for the maximum genetic gain in unit cost. (Chinese. English summary) 89j:92044

Chotai, J. *see* **Lathrop, G. M.; et al.**, 89k:92031

Christiansen, F. B. Epistasis in the multiple locus symmetric viability model. 89k:92026

Churchill, Gary A. Stochastic models for heterogeneous DNA sequences. 89k:92027

Donnelly, Peter (*with* Tavaré, Simon) A genealogical description of the infinitely-many neutral alleles model. 89e:92023

— (*with* Tavaré, Simon) The population genealogy of the infinitely-many neutral alleles model. 89g:92025

Edwards, J. H. The locus ordering problem. 89k:92028

Ethier, S. N. (*with* Kurtz, T. G.) The infinitely-many-alleles model with selection as a measure-valued diffusion. 89c:92037

Feldman, Marcus W. *see* **Lewontin, R. C.**, 89h:92037

Fitch, Walter M. A hidden bias in the estimate of total nucleotide substitutions from pairwise differences. (*see* 89b:92001)

Gille, Jean-Charles *see* **Vidal, Pierre; et al.**, 89a:92029

Goldstein, Larry Mark (*with* Waterman, Michael S.) Mapping DNA by stochastic relaxation. 89d:92042

Goldstein, Martin I. *see* **Sankoff, David**, 89k:92033

Griffiths, R. C. On the distribution of points in a Poisson Dirichlet process. 89g:92026

Guo, Ai Ping *see* **Yu, Shi Rong**, 89b:92022

Hill, W. G. (*with* Weir, B. S.) Variances and covariances of squared linkage disequilibria in finite populations. 89b:92021

Hu, Zhong Li (*with* Zhang, Xian Guang) Fixation time and extinction time of neutral mutant genes in a nonsynchronized population. (Chinese. English summary) (Not in MR)

Karlin, Samuel Comparative analysis of structural relationships in DNA and protein sequences. (*see* 89b:92001)

— *see also* **Matessi, Carlo**, 89k:92032

Keller, U. (*with* Thomas, Bernhard; Pohley, H.-J.) Comment on a genetic application of square-lattice Kauffman models. 89j:92045

Khamis, H. J. The monofactorial model for recurrence risks with generalized penetrance. 89g:92027

Kingman, J. F. C. Typical polymorphisms maintained by selection at a single locus. 89k:92029

Klebaner, Fima C. Conditions for fixation of an allele in the density-dependent Wright-Fisher models. 89k:92030

Koller, Theodor *see* **Stasiak, Andrzej**, 89m:92035

Kurtz, T. G. *see* **Ethier, S. N.**, 89c:92037

Lalouel, J. M. *see* **Lathrop, G. M.; et al.**, 89k:92031

Lathrop, G. M. (*with* Chotai, J.; Ott, Jane J.; Lalouel, J. M.) Tests of gene order from three-locus linkage data. 89k:92031

Law, R. *see* **Cannings, C.**, 89c:92036

Lewontin, R. C. (*with* Feldman, Marcus W.) A general asymptotic property of two-locus selection models. 89h:92037

Li, Wen Hsiung Estimation of the numbers of synonymous and nonsynonymous substitutions between protein coding genes. 89e:92024

Matessi, Carlo (*with* Karlin, Samuel) Altruistic behavior in sibling groups with unrelated intruders. 89k:92032

Miller, Webb (*with* Myers, Eugene W.) Sequence comparison with concave weighting functions. 89j:92046

Moody, Michael E. A branching process model for the evolution of transposable elements. 89g:92028

— The evolution of migration in subdivided populations. I. Haploids. 89c:92038

Morton, Newton E. Letter to the editors: tests of order in multipoint linkage. (Not in MR)

Myers, Eugene W. *see* **Miller, Webb**, 89j:92046

Nagylaki, Thomas The Gaussian approximation for random genetic drift. 89g:92029

— *see also* **Boucher, Wayne**, 89k:92024

Ohta, Tomoko Population genetics theory of multigene families with emphasis on genetic variation contained in the family. 89e:92025

— Time for acquiring a new gene by duplication. (Not in MR)

Ott, Jane J. *see* **Lathrop, G. M.; et al.**, 89k:92031

Padmadisastra, Septiadi Estimating divergence times. 89i:92028

Peng, Xiao Lin Limit cycles in reaction systems with second-order autocatalysis. (Chinese. English summary) 89m:92034

Perlwitz, Marcela D. (*with* Burks, Christian; Waterman, Michael S.) Pattern analysis of the genetic code. 89d:92043

Pohley, H.-J. *see* **Keller, U.; et al.**, 89j:92045

Sankoff, David (*with* Goldstein, Martin I.) Probabilistic models of genome shuffling. 89k:92033

Selgrade, James F. (*with* Ziehe, Martin) Convergence to equilibrium in a genetic model with differential viability between the sexes. 89c:92039

Shiga, Tokuzo Multi-allelic Gillespie-Sato diffusion models and their extension to infinite allelic ones. 89a:92027

— Stepping stone models in population genetics and population dynamics. 89g:92030

Sigmund, K. Gradients for replicator systems. 89a:92028

Sleeman, B. D. Period-doubling bifurcations leading to chaos in discrete models of biology. 89c:92040

Stasiak, Andrzej (*with* Koller, Theodor) Analysis of DNA knots and catenanes allows to deduce the mechanism of action of enzymes which cut and join DNA strands. 89m:92035

Stauffer, D. Percolation thresholds in square-lattice Kauffman model. 89j:92047

Tan, W. Y. Some mixed models of carcinogenesis. 89j:92048

Tavaré, Simon *see* **Donnelly, Peter**, 89e:92023 *and* 89g:92025

Taylor, Peter D. Local stability in a seed provisioning model. 89k:92034

Thomas, Bernhard *see* **Keller, U.; et al.**, 89j:92045

Thomas, Hoben Simple tests implied by a genetic X-linked model. 89m:92036

Thompson, Elizabeth Alison Two-locus and three-locus gene identity by descent in pedigrees. 89k:92035

Turelli, Michael Gaussian versus non-Gaussian genetic analyses of polygenic mutation-selection balance. 89g:92031

Tyutyunikov, R. B. Investigation of the interaction of selection and mutations in an autosomal diallel locus. (Russian) 89e:92026

Vickers, G. T. (*with* Cannings, C.) On the number of stable equilibria in a one-locus, multi-allelic system. 89g:92032

Vidal, Pierre (*with* Gille, Jean-Charles; Węgrzyn, Stefan) Mot génétique de système évolutif et programme d'ADN. (English and Russian summaries) [Genetic word of a developmental system and DNA program] 89a:92029

Vlad, Marcel Ovidiu Separable models for age-structured population genetics. 89d:92044

Waterman, Michael S. *see* **Goldstein, Larry Mark**, 89d:92042 *and* **Perlwitz, Marcela D.; et al.**, 89d:92043

Węgrzyn, Stefan *see* **Vidal, Pierre; et al.**, 89a:92029

Weir, B. S. *see* **Hill, W. G.**, 89b:92021

Yu, Shi Rong (*with* Guo, Ai Ping) A stopping criterion for clustering in grouping genotypes. (Chinese. English summary) 89b:92022

Zeng, Zhao-Bang Genotypic distribution at the limits to natural and artificial selection with mutation. 89f:92029

Zhang, Xian Guang *see* **Hu, Zhong Li**, (Not in MR)

Zhao, You Yuan *see* **Cao, Sheng Yan**, 89j:92044

Ziehe, Martin *see* **Selgrade, James F.**, 89c:92039

Items with secondary classifications in 92A10

Balzer, W. (*with* Dawe, C. M.) Structure and comparison of genetic theories. I. Classical genetics. 89b:03016

— (*with* Dawe, C. M.) Structure and comparison of genetic theories. II. The reduction of character-factor genetics to molecular genetics. 89b:03017

Bertuzzi, A. (*with* Gandolfi, A.; Lucidi, S.) Constrained cross-validation applied to estimation of kinetic parameters of cell populations in perturbed growth. 89m:92042

Biggins, J. D. (*with* Cannings, C.) Markov renewal processes, counters and repeated sequences in Markov chains. 89b:60203

— A note on repeated sequences in Markov chains. 89b:60204

Buiatti, Marcello Information flux and constraints in development and evolution: a critical review. 89m:92037

Bürger, Reinhard Perturbations of positive semigroups and applications to population genetics. 89b:47057

Cannings, C. *see* **Biggins, J. D.**, 89b:60203

Cavalli-Sforza, Luigi L. *see* **Feldman, Marcus W.**, 89g:92033

Cockerham, C. Clark *see* **Tachida, H.**, 89b:92030

Dawe, C. M. *see* **Balzer, W.**, 89b:03016 *and* 89b:03017

Demetrius, Lloyd An extremal principle of macromolecular evolution. 89d:92046

Dorninger, Dietmar On permutations of chromosomes. 89c:20006

Dronamraju, Krishna R. On some aspects of the life and work of John Burdon Sanderson Haldane, F.R.S., in India. 89d:01059

Ethier, S. N. (*with* Griffiths, R. C.) The infinitely-many-sites model as a measure-valued diffusion. 89a:60130

— (*with* Nagylaki, Thomas) Diffusion approximations of Markov chains with two time scales and applications to population genetics. II. 89i:60154

Feldman, Marcus W. (*with* Cavalli-Sforza, Luigi L.) Towards a theory for the evolution of learning. **89g:92033**
— *see also* **Peck, Joel R., 89d:92048**
Gandolfi, A. *see* **Bertuzzi, A.; et al., 89m:92042**
Gnot, Stanisław (*with* Michalski, Andrzej) Estimation of parameters under Hardy-Weinberg law in population genetics. **89k:62127**
Gonshor, Harry Multi-algebra duplication. **89a:17035**
Griffiths, R. C. *see* **Ethier, S. N., 89a:60130**
(Haldane, John Burdon Sanderson) *see* **Dronamraju, Krishna R., 89d:01059**
Harding, Rosalind M. (*with* Sokal, Robert R.) Classification of the European language families by genetic distance. (Not in MR)
(Huxley, Julian) *see* **Dronamraju, Krishna R., 89d:01059**
Im, S. A note on heritability of a dichotomous trait. (French summary) **89a:62218**
Jain, J. P. *see* **Prabhakaran, V. T., 89d:62107**
Khamis, H. J. A measure of partial association between disease and genotype for the two-parent problem. **89a:92009**
Kirkpatrick, Mark *see* **Lande, Russell, 89f:92057**
Lande, Russell (*with* Kirkpatrick, Mark) Ecological speciation by sexual selection. **89f:92057**
Lloyd, E. Keith de Bruijn enumeration applied to some genetical problems. **89d:05008**
Lucidi, S. *see* **Bertuzzi, A.; et al., 89m:92042**
Michalski, Andrzej *see* **Gnot, Stanisław, 89k:62127**
Mitchell, Andrew Ronald (*with* Reid, Lynn B.) A Galerkin method with quadrature for nonlinear parabolic equations in population genetics. **89k:92059**
Nagylaki, Thomas Rate of evolution of a character without epistasis. **89k:92039**
— *see also* **Ethier, S. N., 89i:60154**
Ogura, Yukio (*with* Shimakura, Norio) Stationary solutions and their stability for Kimura's diffusion model with intergroup selection. II. **89b:35063**
Pakes, Anthony G. An infinite alleles version of the Markov branching process. **89m:60205**
Peck, Joel R. (*with* Feldman, Marcus W.) Kin selection and the evolution of monogamy. **89d:92048**
Peresi, Luiz A. A note on duplication of algebras. **89f:17037**
— The derivation algebra of gametic algebra for linked loci. **89m:17050**
Prabhakaran, V. T. (*with* Jain, J. P.) Probability of inadmissible estimates of heritability from full-sib analysis under a general model of gene action. **89d:62107**
Reid, Lynn B. *see* **Mitchell, Andrew Ronald, 89k:92059**
Rocha, C. Examples of attractors in scalar reaction-diffusion equations. **89c:35087**
Rowe, Glenn W. To each genotype a separate strategy—a dynamic game theory model of a general diploid system. **89k:92040**
Shiga, Tokuzo Existence and uniqueness of solutions for a class of nonlinear diffusion equations. **89f:35108**
Shimakura, Norio Un problème mixte non-linéaire parabolique provenant de la génétique des populations. [A mixed nonlinear parabolic problem in population genetics] (*see* **89g:35002**)
— *see also* **Ogura, Yukio, 89b:35063**
Singh, M. K. Extending the theory of linearization of a quadratic transformation in genetic algebra. **89k:17060**
Sokal, Robert R. *see* **Harding, Rosalind M.**, (Not in MR)
Tachida, H. (*with* Cockerham, C. Clark) Quantitative genetic variation in an ecological setting. **89b:92030**
Taylor, Peter D. An inclusive fitness model for dispersal of offspring. **89c:92045**
Tertikas, Achilles Existence and uniqueness of solutions for a nonlinear diffusion problem arising in population genetics. **89h:92055**
Tomisaki, Matsuyo The spectrum of periodic generalized diffusion operators. **89h:47046**
Tóth, J. Structure of the state space in stochastic kinetics. **89k:60104**

Items listed otherwise than by author

Biography:
Haldane, John Burdon Sanderson *see* **Dronamraju, Krishna R., 89d:01059**
Correspondence:
Haldane, John Burdon Sanderson–Huxley, Julian *see* **Dronamraju, Krishna R., 89d:01059**

92A12 Problems relating to evolution

Aoki, Kenichi Gene-culture waves of advance. **89a:92030**
Boyd, Robert (*with* Richerson, Peter J.) The evolution of reciprocity in sizable groups. **89d:92045**
Buiatti, Marcello Information flux and constraints in development and evolution: a critical review. **89m:92037**
Cai, Lu *see* **Luo, Liao Fu, 89e:92030**
Carrillo Calvet, Humberto (*with* Lipman, David) The multiple sequence alignment problem in biology. **89h:92038**
Cavalli-Sforza, Luigi L. *see* **Feldman, Marcus W., 89g:92033**
Charnov, Eric L. Hermaphroditic sex allocation with overlapping generations. **89h:92039**
Chen, Ren Zhao (*with* Gao, Hang) Some results on the critical value of the time-varying specific fertility rate $\beta(t)$. (Chinese. English summary) **89a:92031**
Chen, Shi Zhong A mathematical description of primary structure sequences in DNA. (Chinese. English summary) **89k:92036**
Chuaqui, Benedicto *see* **Hucklenbroich, Peter, 89c:92043**
Cohen, Dan (*with* Zohari, Daniel) The selection operating on the evolution equilibrium of the frequency of sexual reproduction in predominantly asexual populations. **89e:92027**
— *see also* **Motro, Uzi**, (Not in MR)
Demetrius, Lloyd An extremal principle of macromolecular evolution. **89d:92046**
Dress, Andreas (*with* Rumschitzki, D. S.) Evolution on sequence space and tensor products of representation spaces. **89k:92037**
— *see also* **Eigen, Manfred; et al., 89i:92029**
Edmonds, Diane E. (*with* Rose, Michael R.) Reproductive wastage and the evolution of genetic systems. (Not in MR)
Eigen, Manfred (*with* Winkler-Oswatitsch, Ruthild; Dress, Andreas) Statistical geometry in sequence space: a method of quantitative comparative sequence analysis. **89i:92029**
Eshel, Ilan (*with* Weinshall, Daphna; Motro, Uzi) On the evolution of altruistic cooperation. (*see* **89f:92002**)
Feldman, Marcus W. (*with* Cavalli-Sforza, Luigi L.) Towards a theory for the evolution of learning. **89g:92033**
— *see also* **Peck, Joel R., 89d:92048**
Gao, Hang *see* **Chen, Ren Zhao, 89a:92031**
Gille, Jean-Charles (*with* Węgrzyn, Stefan; Vidal, Pierre) Le principe de la régénération dans la théorie des systèmes évolutifs. Extrapolations biologiques. (English and Russian summaries) [The principle of regeneration in the theory of evolutive systems. Biological extrapolations] **89c:92041**
— (*with* Węgrzyn, Stefan; Vidal, Pierre) On some models for developmental systems. IX. Generalized generating word and genetic code. **89e:92028**
— *see also* **Vidal, Pierre; et al., 89c:92046; Węgrzyn, Stefan; et al., 89c:92047** *and* **89c:92048**
Gilpin, M. E. (*with* Taylor, B. L.) Comment on Harpending's and Rogers' model of intergroup selection. **89m:92038**
Goad, Walter B. Sequence analysis—contributions by Ulam to molecular genetics. (*see* **89m:01133a**)
Haigh, John The distribution of evolutionarily stable strategies. **89c:92042**
Herzel, H. Complexity of symbol sequences. **89j:92049**
Hucklenbroich, Peter (*with* Chuaqui, Benedicto) Thesen und Probleme zu den Begriffen von Ordnung, Information und Emergenz. [Theses and problems on the concepts of order, information and emergence] **89c:92043**
Kauffman, Stuart A. Origins of order in evolution: self organization and selection. **89k:92038**
— Origins of order in evolution: self organization and selection. **89m:92039**
Kimber, Gordon (*with* Yen, Yang) Analysis of pivotal-differential evolutionary patterns. **89i:92030**
Kirzhner, V. M. (*with* Lyubich, Yu. I.) A dynamical system arising in mathematical genetics. (Russian) **89e:92029**
Krawczak, Michael Algorithms for the restriction-site mapping of DNA molecules. (Not in MR)
Lipman, David *see* **Carrillo Calvet, Humberto, 89h:92038**
Luo, Liao Fu (*with* Cai, Lu) The Rényi entropy of a nucleic acid sequence and its relation to evolution. (Chinese. English summary) **89e:92030**
Lyubich, Yu. I. *see* **Kirzhner, V. M., 89e:92029**
Maddison, Wayne P. *see* **Swofford, David L., 89c:92044**
Matessi, Carlo Theories of evolution of social behavior. **89i:92031**
Maynard Smith, J. Can a mixed strategy be stable in a finite population? **89d:92047**
— *see also* **Vickery, William L., 89i:92033**
Motro, Uzi (*with* Cohen, Dan) A note on vigilance behavior and stability against recognizable social parasites. (Not in MR)
— *see also* **Eshel, Ilan; et al., (89f:92002)**
Nagylaki, Thomas Rate of evolution of a character without epistasis. **89k:92039**
Peck, Joel R. (*with* Feldman, Marcus W.) Kin selection and the evolution of monogamy. **89d:92048**
Richerson, Peter J. *see* **Boyd, Robert, 89d:92045**
Rose, Michael R. *see* **Edmonds, Diane E.**, (Not in MR)
Rowe, Glenn W. To each genotype a separate strategy—a dynamic game theory model of a general diploid system. **89k:92040**
Rumschitzki, D. S. *see* **Dress, Andreas, 89k:92037**
Schneider, Thomas Dana Information and entropy of patterns in genetic switches. (*see* **89f:62002**)
Schuster, Peter Karl Potential functions and molecular evolution. **89i:92032**
— (*with* Swetina, Jörg) Stationary mutant distributions and evolutionary optimization. (Not in MR)
Schwefel, Hans-Paul Evolutionary learning optimum-seeking on parallel computer architectures. **89k:92041**
Sigmund, K. A maximum principle for frequency dependent selection. **89f:92030**
Song, Brenda *see* **Tavaré, Simon, 89k:92042**
Swetina, Jörg *see* **Schuster, Peter Karl**, (Not in MR)
Swofford, David L. (*with* Maddison, Wayne P.) Reconstructing ancestral character states under Wagner parsimony. **89c:92044**
Tavaré, Simon (*with* Song, Brenda) Codon preference and primary sequence structure in protein-coding regions. **89k:92042**
Taylor, B. L. *see* **Gilpin, M. E., 89m:92038**
Taylor, Peter D. An inclusive fitness model for dispersal of offspring. **89c:92045**
Templeton, Alan The relation between speciation mechanisms and macroevolutionary patterns. (*see* **89b:92001**)
Trifonov, E. N. Codes of nucleotide sequences. (*see* **89c:92002**)
(Ulam, Stan) *see* **Goad, Walter B., (89m:01133a)**
Vickery, William L. Reply to J. Maynard Smith: "Can a mixed strategy be stable in a finite population?" [J. Theoret. Biol. 130 (1988), no. 2, 247–251]. **89i:92033**
Vidal, Pierre (*with* Gille, Jean-Charles; Węgrzyn, Stefan) Structure hiérarchique et principe de décomposition des systèmes évolutifs. (English and Russian summaries) [Hierarchical structure and the principle of decomposition of evolutive systems] **89c:92046**
— *see also* **Gille, Jean-Charles; et al., 89c:92041; Węgrzyn, Stefan; et al., 89c:92047; 89c:92048** *and* **Gille, Jean-Charles; et al., 89e:92028**
Węgrzyn, Stefan (*with* Gille, Jean-Charles; Vidal, Pierre) Clonage et principe de la récapitulation dans la théorie des systèmes évolutifs. (English and Russian summaries) [Cloning and the principle of recapitulation in the theory of evolutive systems] **89c:92047**
— (*with* Vidal, Pierre; Gille, Jean-Charles) Mutations et théorie des systèmes évolutifs. (English and Russian summaries) [Mutations and the theory of evolutive systems] **89c:92048**
— *see also* **Gille, Jean-Charles; et al., 89c:92041; Vidal, Pierre; et al., 89c:92046** *and* **Gille, Jean-Charles; et al., 89e:92028**
Weinberger, Ed A more rigorous derivation of some properties of uncorrelated fitness landscapes. **89k:92043**
Weinshall, Daphna *see* **Eshel, Ilan; et al., (89f:92002)**
Wilson, Stewart W. Bid competition and specificity reconsidered. **89m:92040**
Winkler-Oswatitsch, Ruthild *see* **Eigen, Manfred; et al., 89i:92029**

Yen, Yang *see* **Kimber, Gordon, 89i:92030**
Zohari, Daniel *see* **Cohen, Dan, 89e:92027**

Items with secondary classifications in 92A12

Aslanyan, V. M. (*with* Morozov, V. F.; Mamasakhlisov, E. Sh.) Dimensions of polypeptide chains at helix-coil transition. Microscopic theory. (Russian. English and Armenian summaries) **89d:92019**
Auger, Ivan E. (*with* Lawrence, Charles E.) Algorithms for the optimal identification of segment neighborhoods. **89m:92011**
Azaïs, J.-M. Design of experiments for studying intergenotypic competition. **89b:62159**
Blaseio, Helmuth ★ Das Kognos-Prinzip. (German) [The Kognos principle] **89d:90059**
van den Bosch, F. (*with* de Roos, André Marc; Gabriel, W.) Cannibalism as a life boat mechanism. **89i:92035**
Breen, P. (*with* Henderson, W.) Dominated strategies in searching for evolutionary stable strategies. **89h:90283**
Burks, Christian *see* **Perlwitz, Marcela D.; et al., 89d:92043**
Cannings, C. *see* **Vickers, G. T., 89k:92076**
Colwell, R. K. Population structure and sexual selection for host fidelity in the speciation of hummingbird flower mites. (*see* **89b:92001**)
Degtyar, V. U. (*with* Safonov, I. V.) An evolutionary mechanism for the resolution of conflicts. **89j:92070**
Dorninger, Dietmar On permutations of chromosomes. **89c:20006**
Dress, Andreas (*with* Gerhardt, Martin; Schuster, Heike) Cellular automata simulating the evolution of structure through the synchronization of oscillators. **89m:92063**
Ehrenfeucht, Andrzej (*with* Foreman, M.; Malitz, J.) Taxonometric partitions. **89b:52018**
Ehresmann, A. C. (*with* Vanbremeersch, J.-P.) Hierarchical evolutive systems: a mathematical model for complex systems. **89a:18002**
Eshel, Ilan (*with* Weinshall, Daphna) Cooperation in a repeated game with random payment function. **89g:90255**
Ferrante, L. (*with* Koch, Giorgio) Identifiability of DNA distribution from flow cytometric data with cell debris. **89i:92008**
Ferretti, Vincent (*with* Sankoff, David) A continuous analog for RNA folding. **89m:92017**
Foreman, M. *see* **Ehrenfeucht, Andrzej; et al., 89b:52018**
Gabriel, W. *see* **van den Bosch, F.; et al., 89i:92035**
Gerhardt, Martin *see* **Dress, Andreas; et al., 89m:92063**
Gille, Jean-Charles *see* **Vidal, Pierre; et al., 89a:92029**
Gillespie, John H. Statistical aspects of the molecular clock. **89e:92011**
Girlin, S. K. Modeling of arising developing systems. (Russian. English summary) **89b:00046**
Gutowitz, Howard A. (*with* Victor, Jonathan D.) Local structure theory: calculation on hexagonal arrays, and interaction of rule and lattice. **89k:82084**
Haken, Hermann Learning in synergetic systems for pattern recognition and associative action. **89f:92014**
Henderson, W. *see* **Breen, P., 89h:90283**
Hofacker, G. L. (*with* Levine, R. D.) The evolution of complex systems. **89b:93011**
Hopf, Frederic A. (*with* Michod, Richard E.; Sanderson, Michael J.) The effect of the reproductive system on mutation load. **89f:92044**
Hsieh, Ying Hen On the evolution of altruism in an age-structured population. (*see* **89d:00007**)
Irodov, V. F. The construction and convergence of evolutional algorithms of random search for self-organization. **89f:90077**
Itoh, Yoshiaki Integrals of a Lotka-Volterra system of odd number of variables. **89a:92042**
Keller, U. (*with* Thomas, Bernhard; Pohley, H.-J.) Comment on a genetic application of square-lattice Kauffman models. **89j:92045**
Koch, Giorgio *see* **Ferrante, L., 89i:92008**
Koch, Martin Physikalische Evolutionskonzeption und philosophische Entwicklungstheorie. [Physical conception of evolution and philosophical growth theory] (Not in MR)
Lawrence, Charles E. *see* **Auger, Ivan E., 89m:92011**
Levine, R. D. *see* **Hofacker, G. L., 89b:93011**
Li, Wen Hsiung Estimation of the numbers of synonymous and nonsynonymous substitutions between protein coding genes. **89e:92024**
Lyubich, Yu. I. Darwinian systems and their discrete analogues. (Russian) **89g:39004**
— On the mathematical theory of hypercycles. **89d:92032**
Malitz, J. *see* **Ehrenfeucht, Andrzej; et al., 89b:52018**
Mamasakhlisov, E. Sh. *see* **Aslanyan, V. M.; et al., 89d:92019**
Michod, Richard E. *see* **Hopf, Frederic A.; et al., 89f:92044**
Mirmirani, M. (*with* Oster, George F.) Competition, kin selection, and evolutionary stable strategies. (*see* **89f:90171**)
Moody, Michael E. The evolution of migration in subdivided populations. I. Haploids. **89c:92038**
Morozov, V. F. *see* **Aslanyan, V. M.; et al., 89d:92019**
Oster, George F. *see* **Mirmirani, M., (89f:90171)**
Perlwitz, Marcela D. (*with* Burks, Christian; Waterman, Michael S.) Pattern analysis of the genetic code. **89d:92043**
Pohley, H.-J. *see* **Keller, U.; et al., 89j:92045**
de Roos, André Marc *see* **van den Bosch, F.; et al., 89i:92035**
Safonov, I. V. *see* **Degtyar, V. U., 89j:92070**
Sanderson, Michael J. *see* **Hopf, Frederic A.; et al., 89f:92044**
Sankoff, David *see* **Ferretti, Vincent, 89m:92017**
Schaffer, Mark E. Evolutionarily stable strategies for a finite population and a variable contest size. **89j:92071**
Schuster, Heike *see* **Dress, Andreas; et al., 89m:92063**
Thomas, Alun Drawing pedigrees. **89j:92076**
Thomas, Bernhard *see* **Keller, U.; et al., 89j:92045**
Vanbremeersch, J.-P. *see* **Ehresmann, A. C., 89a:18002**
Vickers, G. T. (*with* Cannings, C.) Patterns of ESSs. I, II. **89k:92076**
Victor, Jonathan D. *see* **Gutowitz, Howard A., 89k:82084**
Vidal, Pierre (*with* Gille, Jean-Charles; Węgrzyn, Stefan) Mot génétique de système évolutif et programme d'ADN. (English and Russian summaries) [Genetic word of a developmental system and DNA program] **89a:92029**
Volkov, I. K. ★ Задачи идентификации математических моделей эволюционных процессов на конечных выборках экспериментальных данных. (Russian) [Problems of identification of mathematical models of evolutionary processes on finite samplings of experimental data] **89k:93214**
Waterman, Michael S. *see* **Perlwitz, Marcela D.; et al., 89d:92043**
Węgrzyn, Stefan *see* **Vidal, Pierre; et al., 89a:92029**
Weinshall, Daphna *see* **Eshel, Ilan, 89g:90255**
Wessel, Karl-Friedrich Zum Verhältnis von Entwicklungstheorie und Naturwissenschaften. [On the relationship between growth theory and natural sciences] (Not in MR)

92A15 Population dynamics, epidemiology

Abdulkhasanov, A. A. Mathematical modeling of the spread of communicable diseases. (Russian) (*see* **89g:60002**)
Abrams, Peter The nonlinearity of competitive effects in models of competition for essential resources. **89e:92031**
Adam, John A. A mathematical model of tumor growth by diffusion. (*see* **89d:00007**)
Addicott, John F. *see* **Freedman, H. I.; et al., 89c:92057**
Ahmad, Shair Convergence and ultimate bounds of solutions of the nonautonomous Volterra-Lotka competition equations. **89a:92032**
Amann, Erwin Permanence in population dynamics. **89f:92031**
Ammar, A. A. *see* **El-Owaidy, H., 89b:92025** *and* **89c:92054**
Anders, B. Differential equations for growth functions. **89h:92040**
Anderson, Roy Malcolm The epidemiology of HIV infection: variable incubation plus infectious periods and heterogeneity in sexual activity. (Not in MR)
— *see also* **Blythe, S. P., 89a:92034; 89i:92034** *and* (Not in MR)
Angelova, D. C. (*with* Baĭnov, D. D.) Oscillatory properties of the solutions of a class of epidemiological equations. **89e:92033**
Antonelli, P. L. (*with* Seymour, R. M.) A model of myxomatosis based on hormonal control of rabbit-flea reproduction. **89a:92033**
— (*with* Skowronski, Janisław M.) Adaptive identification of environmental stress for the management of plant growth. **89b:92023**
— A curved space forward Cauchy problem for chemical ecology on the Great Barrier Reef. **89k:92044**
— (*with* Bradbury, R.; Buck, Rosalie Giovanna; Reichelt, R.; Elliott, Robert J.) Nonlinear prediction of crown-of-thorns outbreaks on the Great Barrier Reef. **89m:92041**
Armstrong, Robert A. The effects of disturbance patch size on species coexistence. (Not in MR)
Aron, Joan L. Acquired immunity dependent upon exposure in an SIRS epidemic model. **89d:92049**
— Mathematical modeling of immunity to malaria. **89f:92032**
Baĭnov, D. D. *see* **Angelova, D. C., 89e:92033**
Baretta, Edoardo (*with* Solimano, F.) A generalization of Volterra models with continuous time delay in population dynamics: boundedness and global asymptotic stability. **89f:92033**
Benzinger, Harold E. *see* **Palmore, Julian I.; et al., 89i:92048**
Beretta, Edoardo (*with* Bischi, G. I.; Solimano, F.) Oscillations in a system with material cycling. **89f:92034**
Bergh, M. O. (*with* Getz, W. M.) Stability of discrete age-structured and aggregated delay-difference population models. **89k:92045**
Bertuzzi, A. (*with* Gandolfi, A.; Lucidi, S.) Constrained cross-validation applied to estimation of kinetic parameters of cell populations in perturbed growth. **89m:92042**
Bischi, G. I. *see* **Beretta, Edoardo; et al., 89f:92034**
Blanchet, Didier A stochastic version of the Malthusian trap model: consequences for the empirical relationship between economic growth and population growth in LDCs. **89h:92041**
Blythe, S. P. (*with* Anderson, Roy Malcolm) Distributed incubation and infectious periods in models of the transmission dynamics of the human immunodeficiency virus (HIV). **89a:92034**
— (*with* Anderson, Roy Malcolm) Variable infectiousness in HIV transmission models. **89i:92034**
— (*with* Anderson, Roy Malcolm) Heterogeneous sexual activity models of HIV transmission in male homosexual populations. (Not in MR)
Boĭko, R. V. (*with* Kotov, V. N.) Stochastic models for microbiological processes. (Russian) **89g:92034**
Bojadziev, G. (*with* Sattar, M. A.) Bifurcations in the three-dimensional Kolmogorov model. **89d:92050**
Bone, Terrence (*with* Jeffries, Clark; Klee, Victor) A qualitative analysis of $\dot{x} = Ax + b$. **89f:92035**
van den Bosch, F. (*with* de Roos, André Marc; Gabriel, W.) Cannibalism as a life boat mechanism. **89i:92035**
Bradbury, R. *see* **Antonelli, P. L.; et al., 89m:92041**
Brauer, Fred A class of Volterra integral equations arising in delayed-recruitment population models. **89c:92049**
Braumann, Carlos A. Upper bound on the probability of extinction of a population with density-dependent growth in a random environment. (Portuguese. English summary) **89g:92035**
— Estimating parameters and extinction probabilities in population stochastic differential equation models. **89k:92046**
Brelot, Marcel Quelques aspects mathématiques de la lutte pour la vie. [Some mathematical aspects of the struggle for life] **89k:92047**
Brenig, L. Complete factorisation and analytic solutions of generalized Lotka-Volterra equations. **89j:92050**
Brokate, Martin On a certain optimal harvesting problem with continuous age structure. **89d:92051**
Buck, Rosalie Giovanna *see* **Antonelli, P. L.; et al., 89m:92041**
Budriené, E. O. (*with* Polezhaev, A. A.; Ptitsyn, M. O.) Mathematical modelling of intercellular regulation causing the formation of spatial structures in bacterial colonies. (Not in MR)
Bunde, Armin *see* **Miyazima, Sasuke, (89j:00034)**

Burns, Scott A. *see* **Palmore, Julian I.; et al., 89i:92048**
Busenberg, Stavros (*with* Cooke, Kenneth; Iannelli, Mimmo) Endemic thresholds and stability in a class of age-structured epidemics. **89k:92048**
— (*with* Cooke, Kenneth) The population dynamics of two vertically transmitted infections. **89e:92034**
Butler, G. J. (*with* Wolkowicz, G. S. K.) Exploitative competition in a chemostat for two complementary, and possibly inhibitory, resources. **89a:92035**
— (*with* Waltman, Paul) Persistence in three-dimensional Lotka-Volterra systems. **89c:92050**
Cantrell, Robert Stephen (*with* Cosner, Chris) On the steady-state problem for the Volterra-Lotka competition model with diffusion. **89d:92052**
Cao, Xian Tong (*with* Chen, Lan Sun) A note on the uniqueness of limit cycles in two species predator-prey system. **89h:92042**
— (*with* Chen, Lan Sun) The problem of limit cycles of generalized Volterra equations. (Chinese) **89d:92053**
Capasso, V. (*with* Kunisch, K.) A reaction-diffusion system arising in modelling man-environment diseases. **89k:92049**
Castillo-Chávez, C. Nonlinear character dependent models with constant time delay in population dynamics. **89a:92036**
— Linear character-dependent models with constant time delay in population dynamics. **89g:92036**
Chaï, Z. S. *see* **Startsev, A. N., 89a:92051** *and* **89m:92046**
Chang, Jian C. A mathematical model for the survival of cancer patients. **89d:92054**
Chelazzi, Guido *see* **Focardi, Stefano; et al., 89j:92051**
Chen, Ke Wei The asymptotic periodicity of the age structure of a population in a changeable environment. (Chinese) **89c:92051**
Chen, Lan Sun (*with* Liu, Ping Zhou; Xiao, Zao) Permanence in ecosystems. (Chinese. English summary) **89h:92043**
— *see also* **Cao, Xian Tong, 89d:92053** *and* **89h:92042**
Chen, Wu Fan The over implicit difference scheme and its analysis of stability for an improved Prajneshu system. (Chinese. English summary) **89c:92052**
Chêng, Kuo Shun *see* **Liou, Lii Perng, 89d:92072** *and* **89d:92073**
Chow, J. H. *see* **Othman, H. A.; et al., 89c:92069**
Collings, John B. *see* **Wollkind, David J.; et al., 89f:92054**
Colwell, R. K. Population structure and sexual selection for host fidelity in the speciation of hummingbird flower mites. (*see* **89b:92001**)
Conlisk, John Simple bounds for the dominant eigenvalue of a generalized Leslie matrix. **89f:92036**
Consul, P. C. (*with* Shoukri, M. M.) Some chance mechanisms related to a generalized Poisson probability model. **89g:92037**
Cooke, Kenneth (*with* Nusse, Helena E.) Analysis of the complicated dynamics of some harvesting models. **89d:92055**
— (*with* Elderkin, Richard; Witten, Matthew) Harvesting procedures with management policy in iterative density-dependent population models. **89f:92037**
— *see also* **Busenberg, Stavros, 89e:92034** *and* **89k:92048**
Coresh, Josef (*with* Goldman, Noreen) The effect of variability in the fertility schedule on numbers of kin. **89g:92038**
Cosner, Chris *see* **Cantrell, Robert Stephen, 89d:92052**
Cressman, R. Frequency-dependent viability selection (a single-locus, multiphenotype model). **89a:92037**
— Frequency- and density-dependent selection: the two-phenotype model. **89i:92036**
— *see also* **Dash, A. T., 89d:92058**
Cromer, Thomas L. Seasonal control for an endemic disease with seasonal fluctuations. **89c:92053**
Cushing, J. M. Nonlinear matrix models and population dynamics. **89i:92037**
Dai, Guo Ren Limit cycles of a predator-prey system. (Chinese) **89d:92056**
Daido, Hiroaki Population dynamics of randomly interacting self-oscillators. I. Tractable models without frustration. **89d:92057**
Damiani, Paul Recherche d'une loi générale de morbidité. (English summary) [In search of a general law of morbidity] (*see* **89g:00016**)
Dash, A. T. (*with* Cressman, R.) Polygamy in human and animal species. **89d:92058**
Demetrius, Lloyd Growth rate, population entropy, and perturbation theory. **89m:92043**
Deneubourg, Jean Louis *see* **Focardi, Stefano; et al., 89j:92051**
Dietz, Klaus (*with* Hadeler, K. P.) Epidemiological models for sexually transmitted diseases. **89f:92038**
— On the transmission dynamics of HIV. **89f:92039**
Dikin, I. I. Volterra's equations for the struggle for existence, and linear inequalities. (Russian) **89k:92050**
Ding, Sun Hong Global structure of a kind of predator-prey system. **89k:92051**
Doi, Shinji (*with* Sato, Shunsuke) Regulation of differentiation in a population of cells interacting through a common pool. **89i:92038**
Duan, Kui Chen (*with* Teng, Zhi Dong) Analysis of a class of three-species systems with Hollings' type I functional response. (Chinese. English summary) **89k:92052**
Dye, Christopher *see* **Hasibeder, Günther, 89c:92062**
Ebenman, Bo Competition between age classes and population dynamics. **89b:92024**
Elderkin, Richard *see* **Cooke, Kenneth; et al., 89f:92037**
Elliott, Robert J. *see* **Antonelli, P. L.; et al., 89m:92041**
El-Owaidy, H. (*with* Ammar, A. A.) On predator-prey-mutualism model. **89b:92025**
— (*with* Ammar, A. A.) Stable oscillations in a predator-prey model with time lag. **89c:92054**
Engel, Alejandro B. Mathematical models in biology: an essay on description and language. (Spanish. English and Portuguese summaries) **89c:92055**
Erice Rodríguez, Javier *see* **García de la Torre, Amalia; et al., 89h:92045**
Farkas, A. (*with* Farkas, M.; Szabó, G.) Multiparameter bifurcation diagrams in predator-prey models with time lag. **89d:92059**
Farkas, M. *see* **Farkas, A.; et al., 89d:92059** *and* **Szabó, G., 89b:92027**
Feng, De Xing (*with* Li, Shu Jie) A class of nonlinear models of population growth. (Chinese. English summary) **89c:92056**
— Stability of nonlinear population evolution equations. (Chinese) **89h:92044**
— (*with* Lin, You Hao; Huang, Hou Ben) Stability of nonlinear age-dependent models of mutualism. (Chinese. English summary) **89d:92060**
Fernandes, Maria de Lourdes C. On some remarks about persistence for differential systems. **89g:92039**
Focardi, Stefano (*with* Paveri-Fontana, S. L.; Deneubourg, Jean Louis; Chelazzi, Guido) A mathematical framework for the life-cycle of plankto-benthonic invertebrates. **89j:92051**
Freedman, H. I. (*with* Rai, Bindhyachal) Persistence in a predator-prey-competitor-mutualist model. **89d:92061**
— (*with* So, Joseph Wai-Hung; Waltman, Paul) Predator influence on the growth of a population with three genotypes. III. Persistence and extinction. **89a:92038**
— (*with* Addicott, John F.; Rai, Bindhyachal) Obligate mutualism with a predator: stability and persistence of three-species models. **89c:92057**
— (*with* Quan, Hong Shun) Interactions leading to persistence in predator-prey systems with group defence. **89i:92039**
— (*with* Gopalsamy, K.) Nonoccurrence of stability switching in systems with discrete delays. **89e:92035**
— *see also* **Kuang, Yang, 89g:92045**
Gabriel, W. *see* **van den Bosch, F.; et al., 89i:92035**
Gandolfi, A. *see* **Bertuzzi, A.; et al., 89m:92042**
García de la Torre, Amalia (*with* Erice Rodríguez, Javier; Marí Beffa, Gloria) The differential SIR model and its applications to the cases of silent and supercontagious infections. (Spanish. English summary) **89h:92045**
Gates, D. J. (*with* Westcott, M.) Stability of plant mixtures in the absence of infection or predation. **89f:92040**
Gatto, Marino (*with* Muratori, S.; Rinaldi, S.) On the optimality of the logistic growth. **89d:92062**
Getz, W. M. Harvesting discrete nonlinear age and stage structured populations. **89e:92036**
— *see also* **Bergh, M. O., 89k:92045**
Ghartey-Tagoe, A. *see* **Habtemariam, T.; et al., (89d:00007)**
Ginzburg, Lev R. The theory of population dynamics: back to first principles. **89a:92039**
Gleissner, Winfried The spread of epidemics. **89d:92063**
Glyzin, S. D. Stationary regimes of a finite-difference approximation of the Hutchinson equation with diffusion. (Russian) **89c:92058**
— Bounds for the applicability of an asymptotic method. (Russian. English and Lithuanian summaries) **89a:92040**
Goldman, Noreen *see* **Coresh, Josef, 89g:92038**
Gollwitzer, Herman E. *see* **Mode, Charles J.; et al.,** (Not in MR)
Gopalsamy, K. Nonoscillation in time delayed Lotka-Volterra competition systems. **89c:92059**
— (*with* Zhang, Bing Gen) On a neutral delay logistic equation. **89k:92053**
— *see also* **Freedman, H. I., 89e:92035**
Greenhalgh, David Threshold and stability results for an epidemic model with an age-structured meeting rate. **89g:92040**
— Some results on optimal control applied to epidemics. **89d:92064**
— Analytical threshold and stability results on age-structured epidemic models with vaccination. **89i:92040**
Greiner, Günther (*with* Nagel, Rainer) Growth of cell populations via one-parameter semigroups of positive operators. **89f:92041**
Grey, D. R. Harvesting under density-dependent mortality and fecundity. **89g:92041**
Gu, Xun (*with* Liu, Zu Dong) A gene diffusion model for a colony with asynchronous growth, and its degree of heterogeneity. (Chinese) (Not in MR)
Guess, Frank (*with* Witten, Matthew) On the incompatibility of Gompertz or Weibull survival dynamics with exponentially distributed individual lifespans. **89f:92042**
Gulamov, R. Dynamics of a system with nonlinear growth of the reproduction of "prey". (Russian) **89i:92041**
Guo, Bao Zhu *see* **Yu, Jing Yuan; et al., 89a:92053**
Gyllenberg, M. (*with* Webb, G. F.) Age-size structure in populations with quiescence. **89c:92060**
Habtemariam, T. (*with* Ghartey-Tagoe, A.; Mamo, E.; Robnett, V.) Epidemiologic modelling of diseases—a case example using Schistosoma and Trypanosoma. (*see* **89d:00007**)
Hadeler, K. P. Vector-transmitted diseases in structured populations. **89c:92061**
— *see also* **Dietz, Klaus, 89f:92038**
Haimovici, A. An ecological system depending on ages and diffusion. **89m:92044**
Hainzl, J. Stability and Hopf bifurcation in a predator-prey system with several parameters. **89d:92065**
Hallam, Thomas G. (*with* Lassiter, Ray R.; Li, Jia^2; McKinney, William) Physiologically structured population models in risk assessment. **89i:92042**
— *see also* **Li, Jia^2, 89k:92057**
Hammond, Peter J. Consequentialist demographic norms and parenting rights. (Not in MR)
Hansen, E. R. *see* **Oommen, B. J., 89c:92068**
Hansen, P. E. Leslie matrix models: a mathematical survey. **89f:92043**
Hardin, Douglas P. (*with* Takáč, Peter; Webb, G. F.) Asymptotic properties of a continuous-space discrete-time population model in a random environment. **89j:92052**
— (*with* Takáč, Peter; Webb, G. F.) A comparison of dispersal strategies for survival of spatially heterogeneous populations. **89k:92054**
Hasibeder, Günther (*with* Dye, Christopher) Population dynamics of mosquito-borne disease: persistence in a completely heterogeneous environment. **89c:92062**
Hernández, Gastón E. Dynamics of populations with age-difference and diffusion: localization. **89j:92053**
Herr, H.-O. Ein Verfahren zur Berechnung wandernder Wellen bei deterministischen Epidemiemodellen. [A method for computing travelling waves in deterministic epidemic models] **89h:92046**
Herrmann, Nira *see* **Mode, Charles J.; et al.,** (Not in MR)
Hethcote, Herbert W. Optimal ages of vaccination for measles. (Not in MR)
Hines, W. G. S. Erratum: "Evolutionary stable strategies: a review of basic theory" [Theoret. Population Biol. **31** (1987), no. 2, 195–272; MR 88f:92033]. **89d:92066**
Hopf, Frederic A. (*with* Michod, Richard E.; Sanderson, Michael J.) The effect of the reproductive system on mutation load. **89f:92044**

Hsieh, Ying Hen The phenomenon of unstable oscillation in population models. **89d:92067**

— On the evolution of altruism in an age-structured population. (*see* **89d:00007**)

Huang, Hou Ben *see* **Feng, De Xing; et al., 89d:92060**

Huang, Xun Cheng Uniqueness of limit cycles of generalised Liénard systems and predator-prey systems. **89i:92043**

Huang, Yong Nian A discussion of the global stability of population models. (Chinese. English summary) **89c:92063**

Hutson, V. The stability under perturbations of repulsive sets. **89k:92055**

Hyman, James M. (*with* Stanley, E. Ann) Using mathematical models to understand the AIDS epidemic. (*see* **89c:92002**)

Iannelli, Mimmo *see* **Busenberg, Stavros; et al., 89k:92048**

Il'ichev, V. G. (*with* Obushchenko, N. I.) On the influence of spatial migration on the temporal dynamics of populations. (Russian) **89g:92042**

Inaba, Hisashi A semigroup approach to the strong ergodic theorem of the multistate stable population process. **89g:92043**

— Asymptotic properties of the inhomogeneous Lotka-Von Foerster system. (French summary) **89g:92044**

Isham, Valerie Mathematical modelling of the transmission dynamics of HIV infection and AIDS: a review. **89i:92044**

Itoh, Yoshiaki Toda lattice and a dynamical system on competition. (Japanese. English summary) **89a:92041**

— Integrals of a Lotka-Volterra system of odd number of variables. **89a:92042**

Jacquez, John A. A note on chain-binomial models of epidemic spread: what is wrong with the Reed-Frost formulation? **89a:92043**

— (*with* Simon, Carl P.; Koopman, James; Sattenspiel, Lisa; Perry, Timothy) Modeling and analyzing HIV transmission: the effect of contact patterns. **89j:92054**

Janovy, J., Jr. (*with* Kutish, G. W.) A model of encounters between host and parasite populations. (Not in MR)

Jansen, Wolfgang A permanence theorem for replicator and Lotka-Volterra systems. **89a:92044**

Janssen, H. K. (*with* Schaub, B.; Schmittmann, B.) The general epidemic process in a finite environment. **89f:92045**

Jeffries, Clark *see* **Bone, Terrence; et al., 89f:92035**

Ji, Liang On establishing the basic equation for plant growth—the problem of the logistic equation. (Chinese) (Not in MR)

Jiang, Ming Yue (*with* Zhou, Zheng Xin) A qualitative analysis of two kinds of group models. (Chinese. English summary) **89j:92055**

Jiang, You Lin The qualitative analysis of two-species predator-prey systems with Holling's type II functional response. (Chinese. English summary) **89j:92056**

Kannan, Rangachary (*with* Ortega, Rafael) Global existence and approximation of solutions of hyperbolic equations arising in population dynamics. **89c:92064**

Kapur, J. N. A new model for population dynamics. **89i:92045**

Kindlmann, Pavel *K*-stability as an ecologically more relevant stability concept. **89d:92068**

Kishimoto, Kazuo^2 A stable spatially nonconstant equilibrium of Lotka-Volterra two-patch system with May-Leonard dynamics. **89j:92057**

Klee, Victor *see* **Bone, Terrence; et al., 89f:92035**

Koch, B. P. *see* **Leven, R. W.; et al., 89f:92047**

Kolesov, A. Yu. *see* **Kolesov, Yu. S., 89c:92065**

Kolesov, Yu. S. (*with* Kolesov, A. Yu.) Biological and physical parabolic systems. (Russian. English and Lithuanian summaries) **89c:92065**

Kolker, Yuri A piecewise-linear growth model: comparison with competing forms in batch culture. **89b:92026**

Kong, De Yong *see* **Song, Jian; et al., (89d:00007)**

Koopman, James *see* **Jacquez, John A.; et al., 89j:92054**

Koth, Maria (*with* Sigmund, K.) Gradients for the evolution of bimatrix games. **89a:92045**

Kotov, V. N. *see* **Boiko, R. V., 89g:92034**

Koziol, James A. *see* **Tuckwell, Henry C., 89f:92051**

Kramer, I. (*with* Yorke, James A.; Yorke, E. D.) The AIDS epidemic's influence on the gay contact rate from analysis of gonorrhea incidence. (Not in MR)

Kuang, Yang Nonuniqueness of limit cycles of Gause-type predator-prey systems. **89h:92047**

— (*with* Freedman, H. I.) Uniqueness of limit cycles in Gause-type models of predator-prey systems. **89g:92045**

Kubo, Masahiro Subdifferential operator approach to nonlinear age-dependent population dynamics. **89e:92037**

Kulenović, M. R. (*with* Ladas, G.) Linearized oscillations in population dynamics. **89c:92066**

Kunisch, K. *see* **Capasso, V., 89k:92049**

Kutish, G. W. *see* **Janovy, J., Jr., (Not in MR)**

Kwong, C. P. Frequency-domain stability analysis of population control. **89d:92069**

Ladas, G. *see* **Kulenović, M. R., 89c:92066**

Lande, Russell (*with* Orzack, Steven Hecht) Extinction dynamics of age-structured populations in a fluctuating environment. **89g:92046**

Langlais, Michel Large time behavior in a nonlinear age-dependent population dynamics problem with spatial diffusion. **89f:92046**

Lassiter, Ray R. *see* **Hallam, Thomas G.; et al., 89i:92042**

Latta, R. A. *see* **Rapp, P. E.; et al., 89j:92061**

Ledent, Jacques (*with* Rogers, Andrei) Stable growth in native-dependent multistate population dynamics. **89e:92038**

Lee, Hwa Young *see* **Rajulton, Fernando, 89h:92054**

Lefevre, C. *see* **de Palma, André, 89g:92049**

Lei, Jing Zhao *see* **Zhou, Kong Rong, 89c:92075**

Lei, Ying Guo A Lotka-Volterra diffusion systems with functionals. **89d:92070**

Leith, John T. *see* **Michelson, Seth, 89g:92047**

Leung, Anthony W. (*with* Zhou, Zhi Ming) Global stability for large systems of Volterra-Lotka type integro-differential population delay equations. **89h:92048**

Leven, R. W. (*with* Koch, B. P.; Markman, G. S.) Periodic, quasiperiodic and chaotic motion in a forced predator-prey ecosystem. **89f:92047**

Levin, Bruce R. Restriction-modification immunity and the maintenance of genetic diversity in bacterial populations. (*see* **89b:92001**)

Li, Chuan Rong Qualitative analysis of a class of predator-prey systems under constant rate stocking of prey. (Chinese. English summary) **89k:92056**

Li, Da Hua Bifurcation solutions for a class of population distribution problems in a bounded domain. (Chinese. English summary) **89j:92058**

Li, Guang Mei (*with* Wang, Yi Qun) A problem concerning a predator system. (Chinese. English summary) **89d:92071**

Li, Jia^2 Persistence in discrete age-structured population models. **89h:92049**

— Persistence and extinction in continuous age-structured population models. **89h:92050**

— (*with* Hallam, Thomas G.) Survival in continuous structured populations models. **89k:92057**

— *see also* **Hallam, Thomas G.; et al., 89i:92042**

Li, Shu Jie *see* **Feng, De Xing, 89c:92056**

Liang, Min The Neumann problem for a class of reaction-diffusion equations modelling epidemics systems. **89h:92051**

Lima, Steven L. Vigilance and diet selection: the classical diet model reconsidered. **89c:92067**

Lin, You Hao *see* **Feng, De Xing; et al., 89d:92060**

Liou, Lii Perng (*with* Chêng, Kuo Shun) Global stability of a predator-prey system. **89d:92072**

— (*with* Chêng, Kuo Shun) On the uniqueness of a limit cycle for a predator-prey system. **89d:92073**

Liu, Ping Zhou *see* **Chen, Lan Sun; et al., 89h:92043**

Liu, Tian Yi The stability of a class of multispecies predator-prey systems. (Chinese) **89e:92039**

Liu, Zu Dong *see* **Gu, Xun, (Not in MR)**

Logan, Jesse A. *see* **Wollkind, David J.; et al., 89f:92054**

Loman, Jon A graphical solution to a one-predator, two-prey system with apparent competition and mutualism. **89i:92046**

Łomnicki, Adam (*with* Sędziwy, Stanisław) Do individual differences in resource intakes without monopolization cause population stability and persistence? **89k:92058**

Longini, Ira M., Jr. A mathematical model for predicting the geographic spread of new infectious agents. **89h:92052**

Loubert, S. *see* **Rodin, E. Y.; et al., (Not in MR)**

Lucidi, S. *see* **Bertuzzi, A.; et al., 89m:92042**

Mamo, E. *see* **Habtemariam, T.; et al., (89d:00007)**

Mansilla, Ricardo *see* **Olivares, Pablo; et al., 89j:92059**

Manton, Kenneth G. *see* **Vaupel, James W.; et al., 89h:92057**

Marí Beffa, Gloria *see* **García de la Torre, Amalia; et al., 89h:92045**

Markman, G. S. *see* **Leven, R. W.; et al., 89f:92047**

McKinney, William *see* **Hallam, Thomas G.; et al., 89i:92042**

McNair, James N. A reconciliation of simple and complex models of age-dependent predation. **89a:92046**

Mees, A. I. *see* **Rapp, P. E.; et al., 89j:92061**

Mesterton-Gibbons, M. On the optimal policy for combined harvesting of independent species. **89d:92074a**

— Errata: "On the optimal policy for combined harvesting of independent species". **89d:92074b**

Michelson, Seth (*with* Leith, John T.) Unexpected equilibria resulting from differing growth rates of subpopulations within heterogeneous tumors. **89g:92047**

Michod, Richard E. *see* **Hopf, Frederic A.; et al., 89f:92044**

Mimura, Masayasu (*with* Takigawa, Shinya) A size-distribution model with density-dependent growth rates. **89g:92048**

Mishra, Pradeep An open problem in Kendall's population model. **89e:92040**

Mitchell, Andrew Ronald (*with* Reid, Lynn B.) A Galerkin method with quadrature for nonlinear parabolic equations in population genetics. **89k:92059**

Miyazima, Sasuke (*with* Bunde, Armin) Finite lifetime effects in models of epidemics. (*see* **89j:00034**)

Mode, Charles J. On statistically assessing critical population size of an endangered species in a random environment. **89h:92053**

— (*with* Root, Terry) Projecting age-structured populations in a random environment. **89f:92048**

— (*with* Gollwitzer, Herman E.; Herrmann, Nira) A methodological study of a stochastic model of an AIDS epidemic. (Not in MR)

Mohr, L. *see* **Rodin, E. Y.; et al., (Not in MR)**

Muratori, S. *see* **Gatto, Marino; et al., 89d:92062**

Nagel, Rainer *see* **Greiner, Günther, 89f:92041**

Nallaswamy, R. Global stability of a system of two competing species with functional response. **89k:92060**

Namba, T. Competition for space in a heterogeneous environment. **89k:92061**

Newman, William I. *see* **Vance, Richard R.; et al., 89g:92053**

Nusse, Helena E. *see* **Cooke, Kenneth, 89d:92055**

Obushchenko, N. I. *see* **Il'ichev, V. G., 89g:92042**

Olivares, Pablo (*with* Mansilla, Ricardo; Sánchez, Norka) A mathematical model for the study of population dynamics. (Spanish. English summary) **89j:92059**

Olsen, L. F. (*with* Truty, G. L.; Schaffer, W. M.) Oscillations and chaos in epidemics: a nonlinear dynamic study of six childhood diseases in Copenhagen, Denmark. **89i:92047**

Onciulescu, I. On periodic solutions of a Volterra system. (Romanian summary) **89k:92062**

Oommen, B. J. (*with* Hansen, E. R.) Correction to: "The asymptotic optimality of discretized linear reward-inaction learning automata" [IEEE Trans. Systems Man Cybernet. **14** (1984), no. 3, 542–545; MR 85h:92042]. **89c:92068**

Ortega, Rafael *see* **Kannan, Rangachary, 89c:92064**

Orzack, Steven Hecht *see* **Lande, Russell, 89g:92046**

Othman, H. A. (*with* Pai, M. A.; Chow, J. H.) Block diagonalization for decoupling energies of power systems with weakly connected areas. **89c:92069**

Pai, M. A. *see* **Othman, H. A.; et al., 89c:92069**

Pakes, Anthony G. Limit theorems for the population size of a birth and death process allowing catastrophes. **89d:92075**

de Palma, André (*with* Lefèvre, C.) Population systems with (non-)extensive interaction rates. **89g:92049**

Palmore, Julian I. (*with* Burns, Scott A.; Benzinger, Harold E.) Ecology models and Newton vector fields. **89i:92048**
Pandey, Rama Kant *see* **Saleem, M., 89f:92049**
Patterson, Richard L. Continuous time stochastic compartmental models of discrete populations. (*see* **89d:00007**)
Paveri-Fontana, S. L. *see* **Focardi, Stefano; et al., 89j:92051**
Perry, Timothy *see* **Jacquez, John A.; et al., 89j:92054**
Phelan, Michael J. Inference from censored Markov chains with applications to multiwave panel data. **89j:92060**
Polezhaev, A. A. *see* **Budriené, E. O.; et al.**, (Not in MR)
Powell, Godfrey E. Structural instability of the theory of simple competition. **89g:92050**
Ptitsyn, M. O. *see* **Budriené, E. O.; et al.**, (Not in MR)
Quan, Hong Shun *see* **Freedman, H. I., 89i:92039**
Rai, Bindhyachal *see* **Freedman, H. I.; et al., 89c:92057** *and* **89d:92061**
Rajulton, Fernando (*with* Lee, Hwa Young) A semi-Markovian approach to using event history data in multiregional demography. **89h:92054**
Rapp, P. E. (*with* Latta, R. A.; Mees, A. I.) Parameter-dependent transitions and the optimal control of dynamical diseases. **89j:92061**
Reichelt, R. *see* **Antonelli, P. L.; et al., 89m:92041**
Reid, Lynn B. *see* **Mitchell, Andrew Ronald, 89k:92059**
Ridler-Rowe, C. J. Extinction times for certain predator-prey processes. **89i:92049**
Rinaldi, S. *see* **Gatto, Marino; et al., 89d:92062**
Robins, J. M. Errata to: "A new approach to causal inference in mortality studies with a sustained exposure period—application to control of the healthy worker survivor effect" [Math. Modelling **7** (1986), no. 9-12, 1393–1512; MR 87m:92078]. **89a:92047**
— Addendum to: "A new approach to causal inference in mortality studies with a sustained exposure period—application to control of the healthy worker survivor effect" [Math. Modelling **7** (1986), no. 9-12, 1393–1512; MR 87m:92078]. **89a:92048**
Robnett, V. *see* **Habtemariam, T.; et al.**, (**89d:00007**)
Rodin, E. Y. (*with* Loubert, S.; Mohr, L.) Continuous model of an epidemic. (Not in MR)
— (*with* Rosenbluth, J.) Discrete model of an epidemic. (Not in MR)
Rodriguez, Diego J. Models of growth with density regulation in more than one life stage. **89k:92063**
Rogers, Andrei *see* **Ledent, Jacques, 89e:92038**
Rogers, Thomas D. (*with* Yang, Zhuocheng) Sensitive dependence, finite decompositions, and homoclinic bifurcations in a model for an epidemic. **89a:92049**
de Roos, André Marc *see* **van den Bosch, F.; et al., 89i:92035**
Root, Terry *see* **Mode, Charles J., 89f:92048**
Roozen, H. Equilibrium and extinction in stochastic population dynamics. **89c:92070**
Rosenbluth, J. *see* **Rodin, E. Y.**, (Not in MR)
Rotenberg, Manuel Life on a regular polygon: maps induced by spatially extended prey-predator equations. **89e:92041**
Saleem, M. (*with* Pandey, Rama Kant) Egg-eating age-structured predator and prey interactions: some simple cases. **89f:92049**
Sánchez, Norka *see* **Olivares, Pablo; et al., 89j:92059**
Sanderson, Michael J. *see* **Hopf, Frederic A.; et al., 89f:92044**
Sato, Shunsuke *see* **Doi, Shinji, 89i:92038**
Sattar, M. A. *see* **Bojadziev, G., 89d:92050**
Sattenspiel, Lisa (*with* Simon, Carl P.) The spread and persistence of infectious diseases in structured populations. **89m:92045**
— *see also* **Jacquez, John A.; et al., 89j:92054**
Schaffer, W. M. *see* **Olsen, L. F.; et al., 89i:92047**
Schaub, B. *see* **Janssen, H. K.; et al., 89f:92045**
Schmittmann, B. *see* **Janssen, H. K.; et al., 89f:92045**
Sędziwy, Stanisław *see* **Łomnicki, Adam, 89k:92058**
Seifert, George Oscillation of solutions of a population equation with delay. **89a:92050**
Seymour, R. M. *see* **Antonelli, P. L., 89a:92033**
Shi, Jia Hong (*with* Xu, Fu Fen) A method of computation for population control. (Chinese. English summary) (Not in MR)
Shoukri, M. M. *see* **Consul, P. C., 89g:92037**
Sigmund, K. *see* **Koth, Maria, 89a:92045**
Simon, Carl P. *see* **Jacquez, John A.; et al., 89j:92054** *and* **Sattenspiel, Lisa, 89m:92045**
Skowronski, Janisław M. *see* **Antonelli, P. L., 89b:92023**
So, Joseph Wai-Hung *see* **Freedman, H. I.; et al., 89a:92038**
Solimano, F. *see* **Baretta, Edoardo, 89f:92033** *and* **Beretta, Edoardo; et al., 89f:92034**
Song, Jian (*with* Yu, Jing Yuan) ★ Population system control. **89f:92050**
— (*with* Kong, De Yong; Yu, Jing Yuan) Population system control. (*see* **89d:00007**)
Sowunmi, C. O. A. Saturation processes. (*see* **89d:00007**)
Stanley, E. Ann *see* **Hyman, James M.**, (**89c:92002**)
Startsev, A. N. (*with* Chaĭ, Z. S.) A generalized probability model for epidemics. (Russian) **89a:92051**
— (*with* Chaĭ, Z. S.) Limit theorems for the size of an epidemic in a generalized probability model. (Russian) **89m:92046**
Stein, Gillian Z. Modelling counts in biological populations. **89g:92051**
Sulsky, Deborah *see* **Vance, Richard R.; et al., 89g:92053**
Swart, J. H. On the Gurtin-MacCamy conjecture concerning the stability of a simple nonlinear age-dependent population model. **89c:92071**
— Hopf bifurcation and the stability of nonlinear age-dependent population models. **89g:92052**
Szabó, G. A remark on M. Farkas: "Stable oscillations in a predator-prey model with time lag" [J. Math. Anal. Appl. **102** (1984), no. 1, 175–188; MR 85h:92035]. **89b:92027**
— *see also* **Farkas, A.; et al., 89d:92059**
Takáč, Peter *see* **Hardin, Douglas P.; et al., 89j:92052** *and* **89k:92054**
Takigawa, Shinya *see* **Mimura, Masayasu, 89g:92048**
Tavaré, Simon The birth process with immigration, and the genealogical structure of large populations. **89e:92042**
Teng, Zhi Dong Notes on a theorem of Freedman and Waltman. (Chinese. English summary) **89k:92064**
— *see also* **Duan, Kui Chen, 89k:92052**
Tertikas, Achilles Existence and uniqueness of solutions for a nonlinear diffusion problem arising in population genetics. **89h:92055**
Tilman, David Further thoughts on competition for essential resources. **89e:92032**
Truty, G. L. *see* **Olsen, L. F.; et al., 89i:92047**
Tucker, Susan L. (*with* Zimmerman, Stuart O.) A nonlinear model of population dynamics containing an arbitrary number of continuous structure variables. **89h:92056**
Tuckwell, Henry C. (*with* Koziol, James A.) Logistic population growth under random dispersal. **89f:92051**
Tyrcha, Joanna Asymptotic stability in a generalized probabilistic/deterministic model of the cell cycle. **89k:92065**
Vance, Richard R. (*with* Newman, William I.; Sulsky, Deborah) The demographic meanings of the classical population growth models of ecology. **89g:92053**
Vaupel, James W. (*with* Yashin, A. I.; Manton, Kenneth G.) Debilitation's aftermath: stochastic process models of mortality. **89h:92057**
Vlad, Marcel Ovidiu Persistent distribution functions for the dispersion of structured populations. **89g:92054**
Voit, Eberhard O. Recasting nonlinear models as S-systems. **89f:92052**
Waltman, Paul *see* **Freedman, H. I.; et al., 89a:92038** *and* **Butler, G. J., 89c:92050**
Wang, Yi Qun *see* **Li, Guang Mei, 89d:92071**
Webb, G. F. Random transitions, size control, and inheritance in cell population dynamics. **89c:92072**
— *see also* **Gyllenberg, M., 89c:92060; Hardin, Douglas P.; et al., 89j:92052** *and* **89k:92054**
Weinberger, Ed A model of natural selection that exhibits a dynamic phase transition. **89f:92053**
Westcott, M. *see* **Gates, D. J., 89f:92040**
Witten, Matthew *see* **Cooke, Kenneth; et al., 89f:92037** *and* **Guess, Frank, 89f:92042**
Wolkowicz, G. S. K. *see* **Butler, G. J., 89a:92035**
Wollkind, David J. (*with* Collings, John B.; Logan, Jesse A.) Metastability in a temperature-dependent model system for predator-prey mite outbreak interactions on fruit trees. **89f:92054**
Xiao, Zao *see* **Chen, Lan Sun; et al., 89h:92043**
Xu, Fu Fen *see* **Shi, Jia Hong**, (Not in MR)
Yang, Zai Zhong The schemes of interpolation to the boundary values on a 3-dimensional simplex and a rectangular parallelepiped for the spatial pattern of populations in communities. (Chinese. English summary) **89a:92052**
Yang, Zhuocheng *see* **Rogers, Thomas D., 89a:92049**
Yashin, A. I. *see* **Vaupel, James W.; et al., 89h:92057**
Yeung, D. W. K. Exact solutions for steady-state probability distribution of a simple stochastic Lotka-Volterra food chain. **89c:92073**
Yorke, E. D. *see* **Kramer, I.; et al.**, (Not in MR)
Yorke, James A. *see* **Kramer, I.; et al.**, (Not in MR)
Yu, Jing Yuan (*with* Guo, Bao Zhu; Zhu, Guang Tian) Control of a semidiscrete population evolution system. (Chinese. English summary) **89a:92053**
— *see also* **Song, Jian, 89f:92050** *and* (**89d:00007**)
Zeng, Zhao Pan A model for population systems with percentage distribution of birth order. (Chinese. English summary) **89d:92076**
Zhang, Bing Gen *see* **Gopalsamy, K., 89k:92053**
Zhang, Fa Qin Existence and uniqueness of a limit cycle in an anorexia predator-prey system. (Chinese. English summary) **89c:92074**
Zheng, Si Ning A reaction-diffusion system of a competitor-competitor-mutualist model. **89k:92066**
Zhou, Kong Rong (*with* Lei, Jing Zhao) Global stability analysis of the Gilpin-Ayala competition model. (Chinese. English summary) **89c:92075**
Zhou, Zheng Xin *see* **Jiang, Ming Yue, 89j:92055**
Zhou, Zhi Ming *see* **Leung, Anthony W., 89h:92048**
Zhu, Guang Tian *see* **Yu, Jing Yuan; et al., 89a:92053**
Zimmerman, Stuart O. *see* **Tucker, Susan L., 89h:92056**

Items with secondary classifications in 92A15

Akhiezer, T. A. Convergence of the trajectories of dynamical systems generated by nonexpanding mappings. (Russian) **89h:34059**
Antonelli, P. L. (*with* Seymour, R. M.) Nonlinear filtering of myxomatosis based on hormonal control of flea reproduction by the rabbit. **89a:92016**
Arditi, Roger (*with* Dacorogna, Bernard) Optimal foraging in nonpatchy habitats. II. Unbounded one-dimensional habitat. **89c:92077**
Aubin, Jean-Pierre (*with* Sigmund, K.) Permanence and viability. **89h:92058**
Ball, Frank (*with* Donnelly, Peter) Interparticle correlation in death processes with application to variability in compartmental models. **89c:60081**
Bebie, H. (*with* Marchand, J.-P.) Population model with quasi-periodic clustering. **89g:60302**
Belyanin, M. P. *see* **Vasil′eva, A. B., 89k:34063**
Biswas, Suddhendu (*with* Ebraheem, Nather Abas) On an application of the diffusion approximation of the generalized birth and death process for stochastic population projection. **89g:60228**
Blake, Robert W. *see* **Harper, David G., 89h:92064**
(Braat, L. C.) *see* **Economic-ecological modeling, 89d:90076**
Brauer, Fred Absolute stability in delay equations. **89b:34166**
Breen, P. (*with* Henderson, W.) Dominated strategies in searching for evolutionary stable strategies. **89h:90283**
Brito, Dagobert L. *see* **Intriligator, Michael D.**, (**89e:90218**)
Britton, N. F. Aggregation and the competitive exclusion principle. **89i:92058**
Brookmeyer, Ron (*with* Gail, M. H.) Biases in prevalent cohorts. (French summary) **89a:62217**
Brown, Charles C. *see* **Tan, W. Y.**, (**89d:00007**)
Bürger, Reinhard Evolutionary dynamics of functionally constrained phenotypic characters. **89d:92041**
Carvalho, L. A. V. (*with* Cooke, Kenneth) A nonlinear equation with piecewise continuous argument. **89d:34114**
Charles, Anthony T. In-season fishery management: a Bayesian model. **89j:90075**
Charnov, Eric L. Hermaphroditic sex allocation with overlapping generations. **89h:92039**

Chen, Ren Zhao (*with* Gao, Hang) Some results on the critical value of the time-varying specific fertility rate $\beta(t)$. (Chinese. English summary) **89a:92031**
Christiansen, F. B. Epistasis in the multiple locus symmetric viability model. **89k:92026**
Clément, Ph. (*with* Diekmann, O.; Gyllenberg, M.; Heijmans, H. J. A. M.; Thieme, Horst R.) Perturbation theory for dual semigroups. II. Time-dependent perturbations in the sun-reflexive case. **89i:47072**
Coimbra, C. A. Scalar steady-state in population biology as a nonlinear eigenvalue problem. **89m:58036**
Cooke, Kenneth (*with* Wiener, Joseph) Neutral differential equations with piecewise constant arguments. (Italian summary) **89e:34107**
— *see also* **Carvalho, L. A. V., 89d:34114**
Cox, J. Theodore (*with* Griffeath, David) Recent results for the stepping stone model. **89f:60118**
Dacorogna, Bernard *see* **Arditi, Roger, 89c:92077**
Danilov, V. G. *see* **Maslov, V. P.; et al., 89k:80018**
Derzko, N. A. *see* **Seidman, Thomas I.; et al., 89b:90057**
Diekmann, O. *see* **Clément, Ph.; et al., 89i:47072**
Diño-Livelo, Susana Difference equations and their applications in the biological sciences. **89j:39001**
Donnelly, Peter *see* **Ball, Frank, 89c:60081**
Downham, D. Y. (*with* Fotopoulos, S. B.) The transient behaviour of the simple random walk in the plane. **89c:60079**
Drábek, Pavel (*with* Kučera, Milan) Reaction-diffusion systems: destabilizing effect of unilateral conditions. **89m:35115**
Durrett, Rick Crabgrass, measles, and gypsy moths: an introduction to interacting particle systems. **89a:60238**
Ebraheem, Nather Abas *see* **Biswas, Suddhendu, 89g:60228**
Fife, P. C. (*with* Xiao, Ling) The generation and propagation of internal layers. **89c:35078**
Fila, Marek (*with* Filo, Ján) Stabilization of solutions of certain one-dimensional degenerate diffusion equations. (Russian summary) **89m:35105**
Filo, Ján *see* **Fila, Marek, 89m:35105**
Fitzgibbon, W. E. (*with* Morgan, J. J.) A diffusive epidemic model on a bounded domain of arbitrary dimension. **89d:35093**
Fotopoulos, S. B. *see* **Downham, D. Y., 89c:60079**
Fujii, Hiroshi (*with* Nishiura, Yasumasa) On the phenomenon of multiple existence of stable equilibria. Coexistence of stable singularly perturbed solutions in systems of reaction-diffusion equations. **89b:35073**
— (*with* Nishiura, Yasumasa; Hosono, Yuzo) On the structure of multiple existence of stable stationary solutions in systems of reaction-diffusion equations. **89b:35074**
Gail, M. H. *see* **Brookmeyer, Ron, 89a:62217**
Gao, Hang L^2-solutions and regular generalized solutions of a class of integro-partial differential equations with variable parameter. (Chinese. English summary) **89e:45010**
— *see also* **Chen, Ren Zhao, 89a:92031**
Gimelfarb, A. Processes of pair formation leading to assortative mating in biological populations: dynamic interaction model. **89f:92060**
Gopalsamy, K. *see* **Zhang, Bing Gen, 89k:34128**
Griffeath, David *see* **Cox, J. Theodore, 89f:60118**
Grillenberger, Christian *see* **Ziezold, Herbert, 89d:60198**
Gyllenberg, M. *see* **Clément, Ph.; et al., 89i:47072**
Győri, I. Connections between compartmental systems with pipes and integro-differential equations. **89c:92020**
— *see also* **Karakostas, G., 89e:34083**
Hanson, Floyd (*with* Ryan, Dennis) Optimal harvesting with density dependent random effects. **89d:90072**
Harper, David G. (*with* Blake, Robert W.) Energetics of piscivorous predator-prey interactions. **89h:92064**
Hassard, Brian D. A code for Hopf bifurcation analysis of autonomous delay-differential systems. **89g:58153**
Healy, M. J. R. (*with* Tillett, H. E.) Short-term extrapolation of the AIDS epidemic. (Not in MR)
Heijmans, H. J. A. M. *see* **Clément, Ph.; et al., 89i:47072**
Henderson, W. *see* **Breen, P., 89h:90283**
Hofbauer, Josef Heteroclinic cycles on the simplex. **89e:58099**
Hosono, Yuzo *see* **Fujii, Hiroshi; et al., 89b:35074**
Iizuka, Masaru Weak convergence of a sequence of stochastic difference equations to a stochastic ordinary differential equation. **89b:60138**
Ikeda, Tsutomu (*with* Nagai, Toshitaka) Stability of localized stationary solutions. **89d:35016**
Intriligator, Michael D. (*with* Brito, Dagobert L.) A predator-prey model of guerrilla warfare. (*see* **89e:90218**)
Itoh, Yoshiaki Integrals of a Lotka-Volterra system of infinite species. **89j:58032**
Ivanova, A. N. *see* **Vol′pert, A. I., 89d:80024**
Ives, Anthony R. Covariance, coexistence and the population dynamics of two competitors using a patchy resource. **89k:92067**
Jiang, Hong (*with* Rogers, Thomas D.) The discrete dynamics of symmetric competition in the plane. **89e:58083**
Jing, Zhu Jun Qualitative analysis of a mathematical model for tissue inflammation dynamics. **89d:92014**
Kahane, Charles S. On the nonnegativity of solutions of reaction diffusion equations. **89h:35159**
Kaitala, V. (*with* Pohjola, M.) Optimal recovery of a shared resource stock: a differential game model with efficient memory equilibria. **89m:90187**
Kapur, J. N. (*with* Kesavan, H. K.) ★ The generalized maximum entropy principle (with applications). **89d:62008**
Karakostas, G. (*with* Győri, I.) Global stability in job systems. **89e:34083**
Keiding, Niels The method of expected number of deaths, 1786–1886–1986. (French summary) **89h:01029**
Keller, Clayton (*with* Lui, Roger) Existence of steady-state solutions to predator-prey equations in a heterogeneous environment. **89a:35113**
Kesavan, H. K. *see* **Kapur, J. N., 89d:62008**
Khamis, H. J. A measure of partial association between disease and genotype for the two-parent problem. **89a:92009**
(Kolobov, N. A.) *see* **Maslov, V. P.; et al., 89k:80018**
Kučera, Milan *see* **Drábek, Pavel, 89m:35115**
Kupper-Viaud, Mireille Estimation et modélisation du lien entre deux processus à indices dans $\mathbf{Z}^2$ et applications à l'épidémiologie. (English summary) [Estimation and modelization of the relation between two processes indexed in $\mathbf{Z}^2$, and applications to epidemiology] **89e:62114**
Lakshmikantham, V. (*with* Trigiante, D.) ★ Theory of difference equations. **89g:39003**
Lee, Hau L. (*with* Pierskalla, William P.) Mass screening models for contagious diseases with no latent period. **89m:92007**
Leite, José Galvão (*with* Oishi, Jorge; Pereira, C. A. de B.) A note on the exact maximum likelihood estimation of the size of a finite and closed population. **89d:62012**
Li, Lige Coexistence theorems of steady states for predator-prey interacting systems. **89b:35042**
(van Lierop, W. F. J.) *see* **Economic-ecological modeling, 89d:90076**
Lui, Roger *see* **Keller, Clayton, 89a:35113**
Lyubich, Yu. I. Darwinian systems and their discrete analogues. (Russian) **89g:39004**
Marchand, J.-P. *see* **Bebie, H., 89g:60302**
Maritz, M. *see* **Mitchell, Andrew Ronald; et al., 89i:58107**
Marsh, Gary M. *see* **Rao, B. Raja, 89h:62171**
Maslov, V. P. (*with* Danilov, V. G.; Volosov, K. A.) ★ Математическое моделирование процессов тепломассопереноса. (Russian) [Mathematical modeling of heat- and mass-transport processes] **89k:80018**
Mawhin, J. Riccati type differential equations with periodic coefficients. **89e:34074**
Maynard Smith, J. Can a mixed strategy be stable in a finite population? **89d:92047**
— *see also* **Vickery, William L., 89i:92033**
McDiarmid, Colin General percolation and oriented matroids. **89g:60309**
Mirollo, R. E. *see* **Strogatz, S. H., 89i:82118a** *and* **89i:82118b**
Mitchell, Andrew Ronald (*with* Stein, Gerard; Maritz, M.) Periodic structure beyond a Hopf bifurcation. **89i:58107**
Morgan, J. J. *see* **Fitzgibbon, W. E., 89d:35093**
Murty, K. N. (*with* Prasad, B. D. C. N.; Rao, Bh. K.) Variational approach to selfadjointness and some applications to biomathematics. **89e:34037**
Nagai, Toshitaka *see* **Ikeda, Tsutomu, 89d:35016**
Nishiura, Yasumasa *see* **Fujii, Hiroshi, 89b:35073** *and* **89b:35074**
Nowak, Martin (*with* Sigmund, K.) Oscillations in the evolution of reciprocity. **89m:90173**
Oishi, Jorge *see* **Leite, José Galvão; et al., 89d:62012**
Osipov, A. V. Conditions for the uniqueness of a limit cycle for a two-dimensional system. (Russian. English summary) **89d:34064**
Padmadisastra, Septiadi Estimating divergence times. **89i:92028**
Pereira, C. A. de B. *see* **Leite, José Galvão; et al., 89d:62012**
Pierskalla, William P. *see* **Lee, Hau L., 89m:92007**
Pohjola, M. *see* **Kaitala, V., 89m:90187**
Prasad, B. D. C. N. *see* **Murty, K. N.; et al., 89e:34037**
Pruscha, Helmut Sequential estimation functions in stochastic population processes. **89b:62176**
Qian, Nan Tian On qualitative property of cubic system. (Chinese summary) **89g:34041**
Qin, Yu An initial-boundary value problem for a generalized diffusion model in population theory. (Chinese. English summary) **89i:35079**
Rabinovitch, A. (*with* Thieberger, R.) Biological populations obeying a stochastically perturbed logistic difference equation. **89g:58123**
Rao, B. Raja (*with* Marsh, Gary M.) Approximate variance formulas and asymptotic joint sampling distributions of standardized risk ratios in the presence of competing risks in cohort studies. **89h:62171**
Rao, Bh. K. *see* **Murty, K. N.; et al., 89e:34037**
Rogers, Thomas D. *see* **Jiang, Hong, 89e:58083**
Rommelfanger, Heinrich ★ Differenzengleichungen. (German) [Difference equations] **89b:39001**
Rotenberg, Manuel Mappings of the plane that simulate prey-predator systems. **89k:92072**
Ryan, Dennis *see* **Hanson, Floyd, 89d:90072**
Šadurskis, Kārlis Oscillations in a neighborhood of statistical equilibrium in quasilinear functional-differential equations. (Russian) **89m:34094**
Sagitov, S. M. A criterion for the existence of a limit for the mean number of particles in a critical branching process. (Russian. Kazakh summary) **89i:60168**
Satsuma, Junkichi Explicit solutions of nonlinear equations with density dependent diffusion. **89f:35113**
Savageau, Michael A. Introduction to S-systems and the underlying power-law formalism. (*see* **89d:00007**)
Seidman, Thomas I. (*with* Sethi, Suresh P.; Derzko, N. A.) Dynamics and optimization of a distributed sales-advertising model. **89b:90057**
Selten, Reinhard Correction and further development: "Evolutionary stability in extensive two-person games" [Math. Social Sci. 5 (1983), no. 3, 269–363; MR 86b:90145]. **89m:90174**
Sethi, Suresh P. *see* **Seidman, Thomas I.; et al., 89b:90057**
Seymour, R. M. *see* **Antonelli, P. L., 89a:92016**
Shiga, Tokuzo Stepping stone models in population genetics and population dynamics. **89g:92030**
Sigmund, K. *see* **Aubin, Jean-Pierre, 89h:92058** *and* **Nowak, Martin, 89m:90173**
Smith, Hal (*with* Waltman, Paul) A classification theorem for three-dimensional competitive systems. **89d:58076**
Song, Guo Hua Qualitative analysis of a kind of Kolmogorov system. (Chinese. English summary) **89b:34070**
Stein, Gerard *see* **Mitchell, Andrew Ronald; et al., 89i:58107**
Strogatz, S. H. (*with* Mirollo, R. E.) Collective synchronisation in lattices of nonlinear oscillators with randomness. **89i:82118a**
— (*with* Mirollo, R. E.) Corrigendum: "Collective synchronisation in lattices of nonlinear oscillators with randomness". **89i:82118b**
Tan, W. Y. (*with* Brown, Charles C.) A nonhomogeneous two-stage model of carcinogenesis. (*see* **89d:00007**)

Thieberger, R. *see* **Rabinovitch, A., 89g:58123**
Thieme, Horst R. Asymptotic proportionality (weak ergodicity) and conditional asymptotic equality of solutions to time-heterogeneous sublinear difference and differential equations. **89e:39004**
— *see also* **Clément, Ph.; et al., 89i:47072**
Tillett, H. E. *see* **Healy, M. J. R.**, (Not in MR)
Trigiante, D. *see* **Lakshmikantham, V., 89g:39003**
Vasil'eva, A. B. (*with* Belyanin, M. P.) On the theory of contrasting structures. **89k:34063**
Vickery, William L. Reply to J. Maynard Smith: "Can a mixed strategy be stable in a finite population?" [J. Theoret. Biol. **130** (1988), no. 2, 247–251]. **89i:92033**
Vincent, Thomas L. Renewable resource management. (*see* **89f:90171**)
Vlad, Marcel Ovidiu Separable models for age-structured population genetics. **89d:92044**
Volosov, K. A. *see* **Maslov, V. P.; et al., 89k:80018**
Vol′pert, A. I. (*with* Ivanova, A. N.) Mathematical models in chemical kinetics. (Russian) **89d:80024**
— (*with* Vol′pert, V. A.) Construction of the rotation of the vector field for operators that describe the wave solutions of parabolic systems. **89c:35084**
Vol′pert, V. A. *see* **Vol′pert, A. I., 89c:35084**
Waltman, Paul *see* **Smith, Hal, 89d:58076**
Wang, Xin Yi An explicit, exact soliton solution to the generalized Fisher equation. (Chinese) (Not in MR)
Watson, Ray On the size of a rumour. **89e:60141**
Wiener, Joseph *see* **Cooke, Kenneth, 89e:34107**
Wu, Jiong Yu A class of prey-predator population models with time lag. (Chinese. English summary) **89i:92057**
— A mathematical model for the production of human leucocytes. (Chinese. English summary) **89j:92042**
Xiao, Ling *see* **Fife, P. C., 89c:35078**
Yamada, Takeo Generic matrix sign-stability. **89b:34124**
Zhang, Bing Gen (*with* Gopalsamy, K.) Oscillation and nonoscillation in a nonautonomous delay-logistic equation. **89k:34128**
Zhang, Lian Ping Differentiability of the population semigroup. (Chinese. English summary) **89m:35113**
Zhou, Li The periodic solution for a periodic nonlinear reaction-diffusion equation with time delay. (Chinese. English summary) **89h:35034**
Zhou, Zhi Ming Limit set and periodic solutions of a class of *n*-variable prey-predator systems. (Chinese. English summary) **89k:34065**
Ziezold, Herbert (*with* Grillenberger, Christian) On the critical infection rate of the one-dimensional basic contact process: numerical results. **89d:60198**

Items listed otherwise than by author

Economic-ecological modeling ★ Economic-ecological modeling. **89d:90076**

92A17 Ecology

Abrams, Peter The functional responses of adaptive consumers of two resources. **89c:92076**
Adamovich, V. A. (*with* Degermendzhi, A. G.; Terskov, I. A.) The effect of growth controlling factor autostabilization and of interaction in a community. (Russian) **89i:92050**
Agarwal, Manju *see* **Shukla, J. B.; et al.**, (**89d:00007**)
Ahmad, Shair On almost periodic solutions of the competing species problems. **89f:92055**
Akçakaya, H. Reşit *see* **Ginzburg, Lev R.; et al., 89j:92063** *and* (**89f:92002**)
Aleksandrov, G. A. (*with* Armand, A. D.; Belotelov, N. V.; Vedyushkin, M. A.; Vilkova, L. P.; Voinov, A. A.; Denisenko, E. A.; Krapivin, V. F.; Logofet, D. O.; Ovsyannikov, L. L.; Pak, S. B.; Pasekov, V. P.; Pisarenko, N. F.; Razzhevaĭkin, V. N.; Sarancha, D. A.; Svirezhev, Yu. M.; Semenov, M. A.; Tarko, A. M.; Fesenko, S. V.; Shmidt, D. A.) ★ Математические модели экосистем. (Russian) [Mathematical models of ecosystems] **89a:92054**
Antonelli, P. L. (*with* Skowronski, Janisław M.) Differential offensive-defensive games between plants and herbivores. **89a:92055**
Arditi, Roger (*with* Dacorogna, Bernard) Optimal foraging in nonpatchy habitats. II. Unbounded one-dimensional habitat. **89c:92077**
Ardito, A. (*with* De Gregorio, S.; Lamberti, L.; Ricciardi, P.) Dynamics of a lake ecosystem. **89i:92051**
Armand, A. D. *see* **Aleksandrov, G. A.; et al., 89a:92054**
Aubin, Jean-Pierre (*with* Sigmund, K.) Permanence and viability. **89h:92058**
Aymerich, Giuseppe Variational aspects of some mathematical models in biology. (Italian) **89b:92028**
Band, Lawrence E. (*with* Wood, Eric F.) Strategies for large-scale, distributed hydrologic simulation. (Not in MR)
Baretta, Edoardo (*with* Takeuchi, Yasuhiro) Global asymptotic stability of Lotka-Volterra diffusion models with continuous time delay. **89g:92055**
Belotelov, N. V. *see* **Aleksandrov, G. A.; et al., 89a:92054**
Bereziński, Mirosław (*with* Petryczek, Grażyna) Application of trajectory decomposition method of the water quality control problem. **89m:92047**
Brew, J. S. Competition and niche dynamics from steady-state solutions of dispersal equations. **89d:92077**
Brusilovskiĭ, P. M. (*with* Nasyrov, F. S.) Bayesian decisions in ecological-economic systems. **89j:92062**
Bugrovskiĭ, V. V. (*with* Butusov, O. B.; Mikhaĭlenko, E. V.) A quasi-two-dimensional mathematical model of atmospheric circulation in closed hollows. (Russian) (Not in MR)
Bulanzhe, E. N. A nonstationary model for the dynamics of a limited age structure. (Russian) **89g:92056**
Butusov, O. B. *see* **Bugrovskiĭ, V. V.; et al.**, (Not in MR)
Chen, Lan Sun *see* **Dai, Guo Ren, 89h:92059**
Cockerham, C. Clark *see* **Tachida, H., 89b:92030**
Corriga, G. (*with* Salimbeni, D.; Sanna, S.; Usai, G.) An optimal control problem in forest management. **89e:92043**
Csetényi, A. *see* **Verhagen, J. H. G., 89a:92065**
Cull, Paul Stability of discrete one-dimensional population models. **89d:92078**
Dacorogna, Bernard *see* **Arditi, Roger, 89c:92077**
Dai, Guo Ren (*with* Chen, Lan Sun) Boundedness and stability of a food chain system with several resources. (Chinese) **89h:92059**
Degermendzhi, A. G. *see* **Adamovich, V. A.; et al., 89i:92050**
De Gregorio, S. *see* **Ardito, A.; et al., 89i:92051**
Denisenko, E. A. *see* **Aleksandrov, G. A.; et al., 89a:92054**
Dettmann, E. H. *see* **Sharma, Prem Lal**, (Not in MR)
Dobrynskiĭ, V. A. A model for the dynamics of a phytoplankton biomass in the presence of an excess of biogenes. (Russian) **89f:92056**
(Dorodnitsyn, A. A.) *see* **Aleksandrov, G. A.; et al., 89a:92054**
Duraiswamy, S. *see* **Mehata, K. M., 89d:92082**
Dusenbery, David B. Ranging strategies. (Not in MR)
Ebenhöh, W. Coexistence of an unlimited number of algal species in a model system. **89h:92060**
Fahrig, L. A general model of populations in patchy habitats. **89d:92079**
Ferre, Michel Quelques exemples d'application de relateurs partiellement autoréférents. [Some examples of the application of partially self-referential relators] **89b:92029**
Fesenko, S. V. *see* **Aleksandrov, G. A.; et al., 89a:92054**
Gaines, Steven *see* **Roughgarden, Jonathan; et al.**, (Not in MR)
Gakkhar, S. *see* **Shukla, J. B.; et al.**, (**89d:00007**)
Galitskiĭ, V. V. (*with* Komarov, A. S.) Numerical modeling of the dynamics of plant populations. (Russian) **89d:92080**
Gal′perin, M. V. On two mathematical approaches to controlling biologically the evolution of bottom communities. **89a:92056**
Garlauskas, Algis (*with* Kovarskaya, Sofiya; Limanauskas, Valdas) A mathematical model of trophic interaction of biopopulations of biological systems. **89i:92052**
Garnaev, A. Yu. *see* **Sedykh, L. G., 89a:92062**
Gatica, Juan A. (*with* So, Joseph Wai-Hung) Predator-prey models with almost periodic coefficients. **89a:92057**
Geritz, S. A. H. (*with* Metz, J. A. J.; Klinkhamer, P. G. L.; de Jong, T. J.) Competition in safe-sites. **89h:92061**
Ginzburg, Lev R. (*with* Akçakaya, H. Reşit; Slice, D.; Slobodkin, L. B.) Balanced growth rates vs. balanced accelerations as causes of ecological equilibria. (*see* **89f:92002**)
— (*with* Akçakaya, H. Reşit; Kim, Junhyong) Evolution of community structure: competition. **89j:92063**
Gockert, Dieter *see* **Metzler, Wolfgang^2**, (**89d:00007**)
Grikienis, Rimantas (*with* Švitra, Donatas) The possibility of constructing mathematical models for the dynamics of insect populations. (Russian. English and Lithuanian summaries) **89a:92058**
Gross, Louis J. A stochastic model of grass growth under grazing. **89i:92053**
Gurman, V. I. (*with* Ivanova, L. I.) Models and analysis of ecological-economic systems. (Not in MR)
Hallam, Thomas G. *see* **Ma, Zhi En, 89f:92058**
Hamilton, W. D. Instability and cycling of two competing hosts with two parasites. **89g:92057**
Hirata, Hironori (*with* Sugai, Yasuo) Aggregation of ecological networks based on information theory. **89j:92064**
— *see also* **Sugihara, George, 89d:92083**
Hofbauer, Josef (*with* Hutson, V.; Jansen, Wolfgang) Coexistence for systems governed by difference equations of Lotka-Volterra type. **89a:92059**
Hogeweg, P. Cellular automata as a paradigm for ecological modeling. **89d:92081**
Hutson, V. *see* **Hofbauer, Josef; et al., 89a:92059**
Ikeda, Masao *see* **Ohta, Yuzo; et al., 89m:92050**
Ivanova, L. I. *see* **Gurman, V. I.**, (Not in MR)
Ives, Anthony R. Covariance, coexistence and the population dynamics of two competitors using a patchy resource. **89k:92067**
Janardan, K. G. Relationship between Morisita's model for estimating the environmental density and the generalized Eulerian numbers. **89k:92068**
Jančiauskas, Rimantas *see* **Švitra, Donatas, 89a:92064**
Jansen, Wolfgang *see* **Hofbauer, Josef; et al., 89a:92059**
Jeffers, J. N. R. Ecological modeling: shortcomings and perspectives. (*see* **89d:90076**)
Jiang, Dong Ping The logistic equation and the Lotka-Volterra equation with almost periodic coefficients. **89j:92065**
Jin, Jun On the global asymptotic stability of periodic solutions of a class of ecological system. **89k:92069**
de Jong, T. J. *see* **Geritz, S. A. H.; et al., 89h:92061**
Kaziev, V. M. Some algorithms and programs for the identification of mathematical models of biomass accumulation of plants. (Russian) **89m:92048**
Kim, Junhyong *see* **Ginzburg, Lev R.; et al., 89j:92063**
Kirkpatrick, Mark *see* **Lande, Russell, 89f:92057**
Kirlinger, Gabriela Permanence of some ecological systems with several predator and one prey species. **89e:92044**
Kiwi, M. *see* **Rössler, J.; et al., 89k:92071**
Klinkhamer, P. G. L. *see* **Geritz, S. A. H.; et al., 89h:92061**
Komarov, A. S. *see* **Galitskiĭ, V. V., 89d:92080**
Korman, Philip (*with* Leung, Anthony W.) On the existence and uniqueness of positive steady states in the Volterra-Lotka ecological models with diffusion. **89e:92045**
Kovarskaya, Sofiya *see* **Garlauskas, Algis; et al., 89i:92052**
Krapivin, V. F. *see* **Aleksandrov, G. A.; et al., 89a:92054**
Krieger, Holger Herbert *see* **Metzler, Wolfgang^2, 89k:92070**
Lamberti, L. *see* **Ardito, A.; et al., 89i:92051**
Lande, Russell (*with* Kirkpatrick, Mark) Ecological speciation by sexual selection. **89f:92057**
Leung, Anthony W. *see* **Korman, Philip, 89e:92045**
Li, Lige On the uniqueness and ordering of steady states of predator-prey systems. **89j:92066**
Limanauskas, Valdas *see* **Garlauskas, Algis; et al., 89i:92052**
Liu, Jia Gang Direct radiation in periodic forest canopies. **89h:92062**
Liu, Ping Zhou (*with* Liu, Zhi Han) The direct methods of Lyapunov for persistence in ecosystems. (Chinese. English summary) **89m:92049**

Liu, Zhi Han *see* **Liu, Ping Zhou, 89m:92049**
(**Loehle, Craig**) *see* **Sugihara, George, 89d:92083**
Logofet, D. O. *see* **Aleksandrov, G. A.; et al., 89a:92054**
Łomnicki, Adam (*with* Sędziwy, Stanisław) Resource partitioning and population stability under exploitation competition. **89i:92054**
Lovas, L. *see* **Svirezhev, Yu. M.; et al., 89a:92063**
Lu, Zheng Yi The LaSalle invariant set for a six-dimensional Lotka-Volterra predator-prey chain system. (Chinese. English summary) **89j:92067**
Ma, Zhi En (*with* Hallam, Thomas G.) Effects of parameter fluctuations on community survival. **89f:92058**
Markus, Mario *see* **Rössler, J.; et al., 89k:92071**
Mehata, K. M. (*with* Duraiswamy, S.) Interconnected population processes with family migration and emigration. **89d:92082**
Mesterton-Gibbons, M. On the optimal compromise for a dispersing parasitoid. **89i:92055**
Metz, J. A. J. *see* **Geritz, S. A. H.; et al., 89h:92061**
Metzler, Wolfgang^2 (*with* Krieger, Holger Herbert) Qualitative behaviour of ordinary differential equation models describing forest growth under air pollution. **89k:92070**
— (*with* Gockert, Dieter) Simulation and stability analysis for parameter dependent 2-dimensional models of air polluted forests. (*see* **89d:00007**)
Mikhaĭlenko, E. V. *see* **Bugrovskiĭ, V. V.; et al.,** (Not in MR)
Milne, Bruce T. Measuring the fractal geometry of landscapes. **89f:92059**
Misra, O. P. *see* **Shukla, J. B.; et al., (89d:00007)**
Moiseev, N. N. The theory of the noösphere and mathematical models. (Russian) **89j:92068**
Mosetti, Renzo Optimal policies in a bioeconomic model of eutrophication. **89c:92078**
Nasyrov, F. S. *see* **Brusilovskiĭ, P. M., 89j:92062**
Ohta, Yuzo (*with* Ikeda, Masao; Šiljak, Dragoslav D.) Parametric stability of model ecosystems. **89m:92050**
Oshime, Yorimasa On the boundedness of cyclic predator-prey systems of Volterra and Lotka. **89a:92060**
— Global boundedness of cyclic predator-prey systems with self-limiting terms. **89h:92063**
Ovsyannikov, L. L. *see* **Aleksandrov, G. A.; et al., 89a:92054**
Pak, S. B. *see* **Aleksandrov, G. A.; et al., 89a:92054**
Pasekov, V. P. *see* **Aleksandrov, G. A.; et al., 89a:92054**
Pearse, P. H. (*with* Walters, C. J.) Perspectives on the application of economic-ecological models. (*see* **89d:90076**)
Petryczek, Grażyna *see* **Bereziński, Mirosław, 89m:92047**
Pimm, Stuart L. (*with* Rice, Jake C.) The dynamics of multispecies, multi-life-stage models of aquatic food webs. **89a:92061**
Pisarenko, N. F. *see* **Aleksandrov, G. A.; et al., 89a:92054**
Placenti, V. (*with* Rizzo, G.; Spagnolo, M.) The management of marine fishery in Italy: a bio-economic optimization. (*see* **89f:92002**)
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Razzhevaĭkin, V. N. *see* **Aleksandrov, G. A.; et al., 89a:92054**
Ricciardi, P. *see* **Ardito, A.; et al., 89i:92051**
Rice, Jake C. *see* **Pimm, Stuart L., 89a:92061**
Rizzo, G. *see* **Placenti, V.; et al., (89f:92002)**
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Salimbeni, D. *see* **Corriga, G.; et al., 89e:92043**
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Sędziwy, Stanisław *see* **Łomnicki, Adam, 89i:92054**
Semenov, M. A. *see* **Aleksandrov, G. A.; et al., 89a:92054**
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Šiljak, Dragoslav D. *see* **Ohta, Yuzo; et al., 89m:92050**
Skowronski, Janisław M. *see* **Antonelli, P. L., 89a:92055**
Slice, D. *see* **Ginzburg, Lev R.; et al., (89f:92002)**
Slobodkin, L. B. *see* **Ginzburg, Lev R.; et al., (89f:92002)**
So, Joseph Wai-Hung *see* **Gatica, Juan A., 89a:92057**
Spagnolo, M. *see* **Placenti, V.; et al., (89f:92002)**
Sugai, Yasuo *see* **Hirata, Hironori, 89j:92064**
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— *see also* **Grikienis, Rimantas, 89a:92058**
Sweda, Tatsuo A stochastic growth model for even-aged single-species forest stands. **89i:92056**
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Takeuchi, Yasuhiro *see* **Baretta, Edoardo, 89g:92055**
Tarko, A. M. *see* **Aleksandrov, G. A.; et al., 89a:92054**
Terskov, I. A. *see* **Adamovich, V. A.; et al., 89i:92050**
Tonkikh, A. P. *see* **Svirezhev, Yu. M.; et al., 89a:92063**
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Items with secondary classifications in 92A17

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Berkowicz, R. *see* **Zlatev, Zahari, 89f:86015**
Bolfarine, Heleno *see* **Rodrigues, Josemar; et al.,** (Not in MR)
Braat, L. C. (*with* van Lierop, W. F. J.) Environment, policy, and modeling. (*see* **89d:90076**)
— (*with* van Lierop, W. F. J.) Integrated economic-ecological modeling. (*see* **89d:90076**)
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Breitenecker, F. *see* **Peschel, M.; et al., (89c:93002)**
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Cao, Hong Xing *see* **Yin, Xiao Rong, 89m:60206**
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Galaktionov, V. A. *see* **Samarskiĭ, A. A.; et al., 89a:35002**
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Harrison, Terry P. *see* **Chatterjee, Kalyan, 89e:90240**
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Ivakhnenko, A. G. *see* **Belyaev, V. I.; et al.,** (Not in MR)
Jameson, Donald A. *see* **Casey, Richard M., 89h:68155**
Kishimoto, Kazuo^2 A stable spatially nonconstant equilibrium of Lotka-Volterra two-patch system with May-Leonard dynamics. **89j:92057**
Kmeť, T. *see* **Brunovský, Pavol, 89b:92011**
Koch, B. P. *see* **Leven, R. W.; et al., 89f:92047**
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Länger, Helmut *see* **Hasibeder, Günther, 89a:26023**
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Lei, Ying Guo A Lotka-Volterra diffusion systems with functionals. **89d:92070**
Leite, José Galvão *see* **Rodrigues, Josemar; et al.,** (Not in MR)
Leitmann, G. *see* **Lee, Cho Seng, 89m:65079**
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van Lierop, W. F. J. *see* **Braat, L. C., (89d:90076); (89d:90076); (89d:90076)** *and* **Economic-ecological modeling, 89d:90076**
(Lin, Winston T.) *see* **Forster, Bruce A., 89h:90066** *and* **Hartl, Richard F., 89h:90067**
Liu, Ping Zhou *see* **Chen, Lan Sun; et al., 89h:92043**
Liu, Tian Yi The stability of a class of multispecies predator-prey systems. (Chinese) **89e:92039**
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Ma, Zhenkui *see* **Patterson, Richard L., 89k:92020**
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Markman, G. S. *see* **Leven, R. W.; et al., 89f:92047**
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Mende, W. *see* **Peschel, M.; et al., (89c:93002)**
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Newman, William I. *see* **Vance, Richard R.; et al., 89g:92053**
Nusse, Helena E. *see* **Cooke, Kenneth, 89d:92055**
Odum, H. T. Models for national, international, and global systems policy. (*see* **89d:90076**)
Patterson, Richard L. (*with* Ma, Zhenkui) Statistical distributions of compartmentalized populations governed by continuous time, discrete state semi-Markov processes. **89k:92020**
Peschel, M. (*with* Mende, W.; Breitenecker, F.; Kopacek, P.) Adaptive control and growth processes. (*see* **89c:93002**)
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Samarskiĭ, A. A. (*with* Galaktionov, V. A.; Kurdyumov, S. P.; Mikhaĭlov, A. P.) ★ Режимы с обострением в задачах для квазилинейных параболических уравнений. (Russian) [Peaking modes in problems for quasilinear parabolic equations] **89a:35002**
Sarkisyan, A. S. *see* **Marchuk, G. I., 89m:86003**
Seymour, R. M. *see* **Antonelli, P. L., 89b:58228**
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Sklar, A. On some unexpected theoretical and practical applications of functional equations. (*see* **89b:39002**)
Smirnova, T. G. *see* **Ionova, I. V., 89e:93005**
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Sulsky, Deborah *see* **Vance, Richard R.; et al., 89g:92053**
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Varlamova, O. S. *see* **Gusev, A. A.,** (Not in MR)
Waltman, Paul *see* **Smith, Hal, 89d:58076**
Westcott, M. *see* **Gates, D. J., 89f:92040**
Wets, Roger J.-B. *see* **Somlyódy, László,** (Not in MR)
Xiao, Zao *see* **Chen, Lan Sun; et al., 89h:92043**
Yamada, Yoshio *see* **Mimura, Masayasu; et al., 89m:35219**
Yamaguti, Masaya Chaos and fractals. **89j:58086**
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Yotsutani, Shoji *see* **Mimura, Masayasu; et al., 89m:35219**
Zlatev, Zahari (*with* Berkowicz, R.) Numerical treatment of large-scale air pollution models. **89f:86015**

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Economic-ecological modeling ★ Economic-ecological modeling. **89d:90076**

92A18 Animal behavior

Baldi, Pierre (*with* Heiligenberg, W.) How sensory maps could enhance resolution through ordered arrangements of broadly tuned receivers. **89k:92075**
Blake, Robert W. *see* **Harper, David G., 89h:92064**
Britton, N. F. Aggregation and the competitive exclusion principle. **89i:92058**
Cannings, C. *see* **Vickers, G. T., 89k:92076**
Comer, C. M. *see* **Dowd, J. P., 89i:92059**
Degtyar, V. U. (*with* Safonov, I. V.) An evolutionary mechanism for the resolution of conflicts. **89j:92070**
Dowd, J. P. (*with* Comer, C. M.) The neural basis of orienting behavior: a computational approach to the escape turn of the cockroach. **89i:92059**
Fletcher, N. H. Bird song—a quantitative acoustic model. (Not in MR)
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Harper, David G. (*with* Blake, Robert W.) Energetics of piscivorous predator-prey interactions. **89h:92064**
Heiligenberg, W. *see* **Baldi, Pierre, 89k:92075**
Kelso, J. A. S. *see* **Schöner, G., 89i:92061**
Körner, B. (*with* Weyer, J.) Mathematical models for some types of chemical information systems. **89f:92061**
Mirmirani, M. (*with* Oster, George F.) Competition, kin selection, and evolutionary stable strategies. (*see* **89f:90171**)
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Oster, George F. *see* **Mirmirani, M., (89f:90171)**
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Ryabko, B. Ya. *see* **Reznikova, Zh. I.,** (Not in MR)
Safonov, I. V. *see* **Degtyar, V. U., 89j:92070**
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Schöner, G. (*with* Kelso, J. A. S.) A dynamic pattern theory of behavioral change. **89i:92061**
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Vickers, G. T. (*with* Cannings, C.) Patterns of ESSs. I, II. **89k:92076**
Weyer, J. *see* **Körner, B., 89f:92061**

Items with secondary classifications in 92A18

Bolfarine, Heleno *see* **Rodrigues, Josemar; et al.,** (Not in MR)
Boyd, Robert (*with* Richerson, Peter J.) The evolution of reciprocity in sizable groups. **89d:92045**
Breen, P. (*with* Henderson, W.) Dominated strategies in searching for evolutionary stable strategies. **89h:90283**
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Coleman, James S. Social structure and the emergence of norms among rational actors. (*see* **89d:90019**)
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Henderson, W. *see* **Breen, P., 89h:90283**
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Leite, José Galvão *see* **Rodrigues, Josemar; et al.,** (Not in MR)
Matessi, Carlo Theories of evolution of social behavior. **89i:92031**
(Maynard Smith, J.) *see* **Vickery, William L., 89i:92033**
Richerson, Peter J. *see* **Boyd, Robert, 89d:92045**
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92A20 Sociology

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Aulin, Arvid Cybernetic causality. III. The qualitative theory of self-steering and social development. **89a:92066**
Baert, Patrick (*with* De Schampheleire, Jan) Autopoiesis, self-organisation and symbolic interactionism: some convergences. **89i:92062**
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Bolland, John M. Sorting out centrality: an analysis of the performance of four centrality models in real and simulated networks. **89j:92072**
Borgatti, Steve *see* **Everett, Martin G., 89g:92060**
Clarke, Martin *see* **Birkin, Mark, (89e:90072)**
Coleman, James S. Social structure and the emergence of norms among rational actors. (*see* **89d:90019**)
Cozzens, Margaret B. *see* **Kelleher, Laura L., 89j:92075**
Dendrinos, Dimitrios S. (*with* Sonis, Michael) The onset of turbulence in discrete relative multiple spatial dynamics. **89d:92084**
De Schampheleire, Jan *see* **Baert, Patrick, 89i:92062**
Dinkel, Reiner Declining life expectancy in a highly developed nation: paradox or statistical artifact? (*see* **89d:90019**)

Esser, Hartmut Ethnic segmentation as the unintended result of intentional action. (*see* **89d:90019**)
Eto, Hajime (*with* Sano, Jun) Analyses of crime control by a total criminal justice system model of feedback type with aging effect considered. **89j:92073**
Everett, Martin G. (*with* Borgatti, Steve) Calculating role similarities: an algorithm that helps determine the orbits of a graph. **89g:92060**
Faust, Katherine Comparison of methods for positional analysis: structural and general equivalences. **89k:92077**
Griffith, Daniel A. *see* **Huff, James; et al., 89j:92074**
Haag, Gunter *see* **Weidlich, Wolfgang, 89k:92078**
Haining, Robert Spatial modelling and the statistical analysis of spatial data in human geography. (French summary) **89c:92082**
He, Zuo The application of systems theory to studying the change in the structure of employment. (Chinese. English summary) (Not in MR)
Huff, James (*with* Griffith, Daniel A.; Sonis, Michael; Leifer, Lloyd A.; Straussfogel, Debra) Dynamic central place theory: an appraisal and future prospects. **89j:92074**
Iacobucci, Dawn *see* **Wasserman, Stanley, 89g:92061**
Kelleher, Laura L. (*with* Cozzens, Margaret B.) Dominating sets in social network graphs. **89j:92075**
Kern, Lucian (*with* Räder, Hans-Georg) On explaining the rise of the new social movements in Germany. (*see* **89d:90019**)
Keyfitz, Nathan A Markov chain for calculating the durability of marriage. **89h:92065**
Kiselev, V. G. (*with* Yakovlev, A. F.) Some mathematical problems arising in the computer realization of geographical information systems. (Russian) **89h:92066**
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Krassa, Michael A. Social groups, selective perception, and behavioral contagion in public opinion. **89f:92063**
Leifer, Lloyd A. *see* **Huff, James; et al., 89j:92074**
Lin, Yi^3 An application of systems analysis in sociology. **89m:92052**
Lombardo, Silvana T. New developments of a dynamic urban retail model with reference to consumers' mobility and costs for developers. (*see* **89e:90072**)
MacKinnon, Ross D. *see* **Amrhein, Carl G., (89e:90072)**
Miron A., Miguel-Angel Représentation de l'espace urbain et systèmes de référence spatiaux. [Representation of urban space and spatial reference systems] **89b:92031**
Räder, Hans-Georg *see* **Kern, Lucian, (89d:90019)**
Raub, Werner (*with* Voss, Thomas) Conditions for cooperation in problematic social situations. (*see* **89d:90019**)
— Problematic social situations and the "large-number dilemma". A game-theoretical analysis. **89e:92047**
Rummel, R. J. A catastrophe theory model of the conflict helix, with tests. **89a:92067**
Sano, Jun *see* **Eto, Hajime, 89j:92073**
Schüssler, Rudolf A. The evolution of reciprocal cooperation. (*see* **89d:90019**)
Sonis, Michael *see* **Dendrinos, Dimitrios S., 89d:92084** *and* **Huff, James; et al., 89j:92074**
Starkermann, R. The apartheid malady. (Not in MR)
Straussfogel, Debra *see* **Huff, James; et al., 89j:92074**
Sudman, Seymour Experiments in measuring neighbor and relative social networks. **89i:92063**
Thomas, Alun Drawing pedigrees. **89j:92076**
Voss, Thomas *see* **Raub, Werner, (89d:90019)**
Wasserman, Stanley (*with* Iacobucci, Dawn) Statistical analysis of discrete relational data. **89g:92061**
Weidlich, Wolfgang (*with* Haag, Gunter) Stochastic migration theory and migratory phase transitions. **89k:92078**
— Stability and cyclicity in social systems. **89g:92062**
— Stochastic migration theory and migratory phase transitions. **89e:92048**
Winship, Christopher Thoughts about roles and relations: an old document revisited. **89k:92079**
Yakovlev, A. F. *see* **Kiselev, V. G., 89h:92066**
Yan, Xiao Yan On fuzzy cliques in fuzzy networks. **89d:92085**

Items with secondary classifications in 92A20

Abdallaoui, G. Probability of maintaining or attaining a structure in one step. **89f:60079**
Arbib, Michael A. *see* **Chipalkatti, Renu, 89g:92072**
Borgatti, Steve A comment on P. Doreian's regular equivalence in symmetric structures: "Measuring regular equivalence in symmetric structures" [Social Networks **9** (1987), no. 2, 89–107, MR 88g:05127]. **89i:05251**
Cerrito, P. B. An improved stochastic model allowing interaction among individuals. **89i:60141**
Chipalkatti, Renu (*with* Arbib, Michael A.) The cue interaction model of depth perception: a stability analysis. **89g:92072**
Demetrius, Lloyd Growth rate, population entropy, and perturbation theory. **89m:92043**
Diekmann, Andreas Volunteer's dilemma. A social trap without a dominant strategy and some empirical results. (*see* **89d:90019**)
(Doreian, Patrick) *see* **Borgatti, Steve, 89i:05251**
(Engel, Ernst) *see* **Hacking, Ian, 89a:01033**
Gómez M., Guillermo L. Attainability and reversibility of a golden age for the labour-surplus economy: a stochastic variational approach. **89j:90065**
(Griffith, Daniel A.) *see* **Transformations through space and time, 89e:90072**
Hacking, Ian Prussian numbers 1860–1882. **89a:01033**
(Haining, Robert) *see* **Transformations through space and time, 89e:90072**
Hedetniemi, S. T. *see* **Hedetniemi, Sandra M.; et al., 89h:90087**
Hedetniemi, Sandra M. (*with* Hedetniemi, S. T.; Liestman, Arthur L.) A survey of gossiping and broadcasting in communication networks. **89h:90087**
Kalamatianou, A. G. A model for responding to promotion blockages. **89i:90045**
Kong, De Yong *see* **Song, Jian; et al., (89d:00007)**
Lechowski, Jerzy Introduction of M. Mazur's theory of the modeling of human characters. (Polish. English and Russian summaries) **89h:92069**
Leinfellner, Werner The prisoner's dilemma and its evolutionary iteration. (*see* **89d:90019**)
Liestman, Arthur L. *see* **Richards, Dana S., 89f:90055** *and* **Hedetniemi, Sandra M.; et al., 89h:90087**
(Lovie, A. D.) *see* **New developments in statistics for psychology and the social sciences, 89a:62002**
Moiseev, N. N. The theory of the noösphere and mathematical models. (Russian) **89j:92068**
Mosekilde, Erik *see* **Rasmussen, Dan René, 89b:90114**
Nijkamp, Peter (*with* Reggiani, Aura) Entropy, spatial interaction models and discrete choice analysis: static and dynamic analogies. **89e:90069**
Odum, H. T. Models for national, international, and global systems policy. (*see* **89d:90076**)
Opp, Karl-Dieter The evolution of a prisoner's dilemma in the market. (*see* **89d:90019**)
Palka, Zbigniew Rulers and slaves in a random social group. **89a:05122**
Phelan, Michael J. Inference from censored Markov chains with applications to multiwave panel data. **89j:92060**
Pilipenko, A. V. ★ Пропорции в науке. (Russian) [Proportions in science] **89h:90135**
Porter, Theodore M. Lawless society: social science and the reinterpretation of statistics in Germany, 1850–1880. **89a:01037**
Rasmussen, Dan René (*with* Mosekilde, Erik) Bifurcations and chaos in a generic management model. **89b:90114**
Reggiani, Aura *see* **Nijkamp, Peter, 89e:90069**
Richards, Dana S. (*with* Liestman, Arthur L.) Generalizations of broadcasting and gossiping. **89f:90055**
Ripley, B. D. Spatial statistics: developments 1980–1983. (French summary) **89h:62157**
Seress, Ákos Quick gossiping without duplicate transmissions. **89e:05018**
— Gossips by conference calls. **89d:05134**
— Quick gossiping by conference calls. **89d:05022**
Song, Jian (*with* Kong, De Yong; Yu, Jing Yuan) Population system control. (*see* **89d:00007**)
Sonis, Michael Transportation flows within central-place systems. **89j:90180**
Stoyan, D. Thinnings of point processes and their use in the statistical analysis of a settlement pattern with deserted villages. **89k:62121**
Terekhov, A. I. ★ Математическое моделирование динамики кадров в организациях. Линейная детерминированная модель. (Russian) [Mathematical modeling of the dynamics of key personnel in organizations. A linear deterministic model] **89c:90068**
Vajda, Steven An application of the simplex method to manpower planning. **89j:90181**
Weesie, Jeroen (*with* Wippler, Reinhard) Cumulative effects of sequential decisions in organizations. (*see* **89d:90019**)
Wippler, Reinhard *see* **Weesie, Jeroen, (89d:90019)**
Yu, Jing Yuan *see* **Song, Jian; et al., (89d:00007)**

Items listed otherwise than by author

Hanstholm ★ Transformations through space and time. **89e:90072**
NATO Advanced Study Institute:
Transformations through Space and Time ★ Transformations through space and time. **89e:90072**
New developments in statistics for psychology and the social sciences ★ New developments in statistics for psychology and the social sciences. **89a:62002**
Transformations through space and time ★ Transformations through space and time. **89e:90072**

92A25 Psychology

Agu, M. Field theory of pattern identification. **89g:92063**
Arzola Ruiz, José A new approach to the problem of the coordination of direction in discrete hierarchical systems. (Spanish. English summary) **89i:92064**
Basak, I. When to combine group judgments and when not to in the analytic hierarchy process: a new method. **89d:92086**
Batbedat, A. L'algorithme PROXEL pour les dissimilarités. (English summary) [The PROXEL algorithm for dissimilarities] **89j:92077**
Batyrshin, I. Z. Fuzzy sets with unified scales. (Russian) (*see* **89h:00001**)
Becker, Johannes (*with* Billhardt, Bernd) Configural effects in similarity judgments: a theoretical analysis. **89a:92068**
Bekmuratov, K. A. *see* **Vasil'ev, V. I.; et al., 89f:92068**
Bérczi, Szaniszló (*with* Nagy, Dénes; Farkas, Tamas F.) From M. C. Escher to multidimensional thinking. (*see* **89m:00011**)
Berliner, Paul Zur Problematik einer Ars Inveniendi. [On the problem of an ars inveniendi] **89g:92064**
Billhardt, Bernd *see* **Becker, Johannes, 89a:92068**
van Blokland-Vogelesang, Rian (*with* Verbeek, Albert; Eilers, Paul) Iterative estimation of pattern and error parameters in a probabilistic unidimensional unfolding model. **89g:92065**
Bonaiuto, Paolo The usual, the ambiguous and two types of visual incongruity in the work of Maurits Cornelis Escher. (*see* **89m:00011**)
Borisov, A. N. *see* **Glushkov, V. I., (89c:00014)**
Bresson, Denis Petite bibliographie sur "la théorie du mesurage". [Short bibliography on the "theory of measurement"] **89f:92064**
Broomhead, D. S. (*with* Lowe, David) Multivariable functional interpolation and adaptive networks. (Not in MR)
Brunsdon, T. M. (*with* Skinner, C. J.) The analysis of dependencies between time series in psychological experiments. **89g:92066**
Buchanan, Bruce S. A model for repeat paired comparison preference tests. **89e:92049**
Budescu, David V. *see* **Zwick, Rami; et al., 89g:92071**
Busemeyer, Jerome R. (*with* Rapoport, Amnon) Psychological models of deferred decision making. **89j:92078**
— (*with* Forsyth, Barbara; Nozawa, Georgie) Comparisons of elimination by aspects and suppression of aspects choice models based on choice response time. **89j:92079**
Caglioti, Giuseppe The world of Escher and physics. (*see* **89m:00011**)
Carlstein, E. *see* **Zwick, Rami; et al., 89g:92071**
Carpenter, G. A. (*with* Grossberg, S.) Self-organizing neural network architectures for real-time adaptive pattern recognition. (*see* **89i:92026**)

de Castro, Constancio Introduction to axiomatic measurement in behavioral science. I. Order structures. (Spanish. English summary) **89m:92053**

Chandler, Marthe Models of voting behavior in survey research. (Not in MR)

Chen, Tu Yun (*with* Zheng, Ming Zhu) Orderings based on paired comparisons. (Chinese. English summary) **89m:92054**

(Chernavskii, A. V.) *see* **Intellectual processes and their modeling, 89b:92032**

Cohen, Michael A. Dedekind completion of positive concatenation structures: necessary and sufficient conditions. **89c:92083**

Conrath, D. W. *see* **Irving, R. H., 89h:92068**

Cook, Wade D. (*with* Kress, Moshe) Deriving weights from pairwise comparison ratio matrices: an axiomatic approach. **89i:92065**

Cozzens, Margaret B. (*with* Leibowitz, Rochelle) Multidimensional scaling and threshold graphs. **89a:92069**

Dasgupta, Partha Lives and well-being. **89e:92050**

Denker, John (*with* Schwartz, Daniel B.; Wittner, Ben; Solla, Sara; Howard, Richard; Jackel, Lawrence; Hopfield, John) Large automatic learning, rule extraction, and generalization. **89k:92080**

Doignon, Jean-Paul (*with* Falmagne, Jean-Claude) Knowledge assessment: a set-theoretic framework. **89g:92067**

— Sur les représentations minimales des semiordres et des ordres d'intervalles. (English summary) [On minimal representations of semi-orderings and orderings of intervals] **89j:92080**

— *see also* **Falmagne, Jean-Claude, 89k:92082**

Dorfman, Ya. G. (*with* Sergeev, V. M.) Neuromorphogenesis and models for the world in networks of neural processors. (Russian) (*see* **89b:92032**)

Droste, Manfred Classification and transformation of ordinal scales in the theory of measurement. **89c:92084**

D'yachkov, A. G. *see* **Rykov, V. V., 89g:92068**

Eilers, Paul *see* **van Blokland-Vogelesang, Rian; et al., 89g:92065**

Ennis, Daniel M. (*with* Palen, Joseph J.; Mullen, Kenneth) A multidimensional stochastic theory of similarity. **89k:92081**

(Escher, M. C.) *see* **Teuber, Marianne, (89m:00011); Caglioti, Giuseppe, (89m:00011); Bérczi, Szaniszló; et al., (89m:00011); Maltese, Corrado, (89m:00011); Bonaiuto, Paolo, (89m:00011)** *and* **Versluis, Edward B., (89m:00011)**

Ezhov, A. A. *see* **Vedenov, A. A.; et al., 89h:92073**

Falmagne, Jean-Claude (*with* Doignon, Jean-Paul) A class of stochastic procedures for the assessment of knowledge. **89k:92082**

— *see also* **Doignon, Jean-Paul, 89g:92067**

Farkas, Tamas F. *see* **Bérczi, Szaniszló; et al., (89m:00011)**

Fienberg, Stephen E. (*with* Tanur, Judith M.) Combining cognitive and statistical approaches to survey design. (Not in MR)

Forsyth, Barbara *see* **Busemeyer, Jerome R.; et al., 89j:92079**

Fuchs, Armin (*with* Haken, Hermann) Computer simulations of pattern recognition as a dynamical process of a synergetic system. (*see* **89i:92026**)

Gaaze-Rapoport, M. G. (*with* Pospelov, D. A.) ★ От амебы до робота: модели поведения. (Russian) [From amoeba to robot: models of behavior] **89f:92065**

Giannakopoulos, F. *see* **von Seelen, W.; et al., (89i:92026)**

Glushkov, V. I. (*with* Borisov, A. N.) Choice of alternatives on the basis of the analysis of fuzzy evidence. (Russian) (*see* **89c:00014**)

Glymour, Clark (*with* Spirtes, Peter) Latent variables, causal models and overidentifying constraints. **89k:92083**

Golden, R. M. A unified framework for connectionist systems. **89e:92051**

Grabian-Różycka, Ewa Motivations toward self-learning in M. Mazur's theory of character. (Polish. English and Russian summaries) (Not in MR)

Gregory, Richard L. Puzzles of pictures as untouchable objects. (*see* **89m:00011**)

Gregson, Robert A. M. *see* **Price, Ian R., 89c:92086**

Grossberg, S. *see* **Carpenter, G. A., (89i:92026)**

Haken, Hermann Synergetics in pattern recognition and associative action. (*see* **89i:92026**)

— *see also* **Fuchs, Armin, (89i:92026)**

Harker, Patrick T. (*with* Vargas, Luis G.) The theory of ratio scale estimation: Saaty's analytic hierarchy process. **89i:92066a**

— (*with* Vargas, Luis G.) Erratum: "The theory of ratio scale estimation: Saaty's analytic hierarchy process". **89i:92066b**

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Hatfield, Gary Representation and content in some (actual) theories of perception. (Not in MR)

van Hemmen, J. L. Pattern recognition in nonlinear neural networks. **89f:92066**

Hopfield, John *see* **Denker, John; et al., 89k:92080**

Howard, Richard *see* **Denker, John; et al., 89k:92080**

Huang, Thomas S. Determining three-dimensional motion and structure from two perspective views. **89e:92052**

(Hull, C. L.) *see* **Murray, David J., 89a:92070**

Indow, Tarow Alleys on an apparent frontoparallel plane. **89i:92067**

Irving, R. H. (*with* Conrath, D. W.) The social context of multiperson, multiattribute decisionmaking. **89h:92068**

Islei, G. (*with* Lockett, A. G.) Judgemental modelling based on geometric least square. **89d:92087**

Ivanov, Vyach. Vs. Language as a model of the world. (Russian) (*see* **89b:92032**)

Jackel, Lawrence *see* **Denker, John; et al., 89k:92080**

Kelemen, Jozef Measuring cognitive resources use (a grammatical approach). (Russian summary) **89m:92055**

Kress, Moshe *see* **Cook, Wade D., 89i:92065**

Kugushev, E. I. Affine moment features for pattern recognition. (Russian) **89e:92053**

Lauria, Francesco E. On a learning neural network. **89j:92081**

Lechowski, Jerzy Introduction of M. Mazur's theory of the modeling of human characters. (Polish. English and Russian summaries) **89h:92069**

Leibowitz, Rochelle *see* **Cozzens, Margaret B., 89a:92069**

Lerda, F. G. Some considerations on the relationships between human and artificial intelligence. (*see* **89f:92002**)

Levchenko, E. B. *see* **Vedenov, A. A.; et al., 89h:92073**

Levit, V. E. (*with* Pereverzev-Orlov, V. S.) On modeling. (Russian) (*see* **89b:92032**)

Lockett, A. G. *see* **Islei, G., 89d:92087**

Lootsma, Freerk A. Numerical scaling of human judgement in pairwise-comparison methods for fuzzy multicriteria decision analysis. (*see* **89g:90136**)

Lories, G. Psychologie de la décision. [Psychology of decision] (*see* **89a:94001**)

Lowe, David *see* **Broomhead, D. S., (Not in MR)**

(Luce, R. Duncan) *see* **Murray, David J., 89a:92070**

Macdonald, Ranald R. Credible conceptions and implausible probabilities. **89j:92082**

Mallot, H. A. *see* **von Seelen, W.; et al., (89i:92026)**

Maltese, Corrado Univocals, ambiguity, nonsense in Escher's art. (*see* **89m:00011**)

Manin, Yu. I. On the problem of the early stages of speech and consciousness (phylogenesis). (Russian) **89h:92070**

Marconi, Silvio A set of possible worlds. (*see* **89m:00011**)

Marken, Richard S. The nature of behavior: control as fact and theory. **89f:92067**

Marley, A. A. J. Random utility models with binary tree decomposable rank orders satisfy Tversky's elimination-by-aspects model. **89m:92056**

Mazur, Marian The concept of a system and the rigours of its application. (Polish. English and Russian summaries) **89d:92088**

Michell, Joel Some problems in testing the double cancellation condition in conjoint measurement. **89i:92068**

Monjardet, B. (*with* Netchine-Grynberg, G.) Plural psychological developmental models: an ordinal generalization of the Guttman scale. **89i:92069**

Moore, George P. *see* **Hary, David, 89h:92067**

Mullen, Kenneth *see* **Ennis, Daniel M.; et al., 89k:92081**

Murray, David J. A perspective for viewing the integration of probability theory into psychology. **89a:92070**

Nadal, J.-P. Neural networks: a path from neurobiology to psychology? **89m:92057**

Nagy, Dénes *see* **Bérczi, Szaniszló; et al., (89m:00011)**

Netchine-Grynberg, G. *see* **Monjardet, B., 89i:92069**

Nicolau, Edmond Cognition and cybernetics. **89j:92083**

Nicolis, John S. Chaotic dynamics of logical paradoxes. **89a:92071**

Niederée, Reinhard On the reference to real numbers in fundamental measurement: a model-theoretic approach. **89c:92085**

Nozawa, Georgie *see* **Busemeyer, Jerome R.; et al., 89j:92079**

Orekhov, A. N. (*with* Semenov, D. V.) A study of the relation between semantic and process characterizations of representations in a mathematized synthetic theory of psychological processes. (Russian. English summary) **89j:92084**

Otsu, Nobuyuki Recognition of shape and transformation: an invariant-theoretical foundation. (*see* **89g:82013**)

Ovsyannikova, F. P. *see* **Vasil'ev, V. I.; et al., 89f:92068**

Palen, Joseph J. *see* **Ennis, Daniel M.; et al., 89k:92081**

Palm, G. Local synaptic rules with maximal information storage capacity. (*see* **89i:92026**)

Pereverzev-Orlov, V. S. *see* **Levit, V. E., (89b:92032)**

Petrov, A. P. Light, color and form. (Russian) (*see* **89b:92032**)

Pla-López, Rafael Introduction to a learning general theory. **89m:92058**

Pospelov, D. A. *see* **Gaaze-Rapoport, M. G., 89f:92065**

Price, Ian R. (*with* Gregson, Robert A. M.) Nonlinear dynamics in a complex cubic one-dimensional model for sensory psychophysics. **89c:92086**

Raaijmakers, Jeroen G. W. A formal model for associative memory. **89a:92072**

Rapoport, Amnon *see* **Busemeyer, Jerome R., 89j:92078**

Ritter, Gerhard X. Topology of computer vision. **89m:92059**

Ritter, H. (*with* Schulten, K.) Convergence properties of Kohonen's topology conserving maps: fluctuations, stability, and dimension selection. **89j:92085**

Rykov, V. V. (*with* D'yachkov, A. G.) A model of associative memory. **89g:92068**

Saaty, Thomas L. (*with* Vargas, Luis G.) Stimulus-response with reciprocal kernels: the rise and fall of sensation. **89a:92073**

— Some mathematical topics in the analytic hierarchy process. (*see* **89g:90136**)

— What is the analytic hierarchy process? (*see* **89g:90136**)

Schulten, K. *see* **Ritter, H., 89j:92085**

Schwartz, Daniel B. *see* **Denker, John; et al., 89k:92080**

von Seelen, W. (*with* Mallot, H. A.; Giannakopoulos, F.) Computation in cortical nets. (*see* **89i:92026**)

Semenov, D. V. *see* **Orekhov, A. N., 89j:92084**

Sergeev, V. M. *see* **Dorfman, Ya. G., (89b:92032)**

Skinner, C. J. *see* **Brunsdon, T. M., 89g:92066**

Słowikowski, Wojtek Quantizations of questionnaires. **89h:92071**

Smith, Gerald F. Towards a heuristic theory of problem structuring. (Not in MR)

Smith, Philip L. (*with* Vickers, Douglas) The accumulator model of two-choice discrimination. **89h:92072**

Smolyaninov, V. V. From invariants of geometries to invariants of control. (Russian) **89g:92069**

Solla, Sara *see* **Denker, John; et al., 89k:92080**

Spirtes, Peter *see* **Glymour, Clark, 89k:92083**

Suck, Reinhard Approximation theorems for conjoint measurement models. **89c:92087**

Ta'eed, Latha K. (*with* Ta'eed, O.; Wright, J. E.) Determinants involved in the perception of the Necker cube: an application of catastrophe theory. (Not in MR)

Ta'eed, O. *see* **Ta'eed, Latha K.; et al., (Not in MR)**

Tanur, Judith M. *see* **Fienberg, Stephen E., (Not in MR)**

Teuber, Marianne Perceptual theory and ambiguity in the work of M. C. Escher against the background of 20th century art. (*see* **89m:00011**)

Toda, Morikazu Interest in form in Japan and the West. (*see* **89g:82013**)

Van Mechelen, Iven Prediction of a dichotomous criterion variable by means of a logical combination of dichotomous predictors. (French summary) **89j:92086**

Vargas, Luis G. *see* **Saaty, Thomas L., 89a:92073; Harker, Patrick T., 89i:92066a** *and* **89i:92066b**

Vasil'ev, V. I. (*with* Ovsyannikova, F. P.; Bekmuratov, K. A.) The separating force of features in problems of recognition learning based on the method of limiting simplifications. **89f:92068**

Vedenov, A. A. (*with* Ezhov, A. A.; Levchenko, E. B.) Nonlinear dynamical systems with memory and functions of neuron ensembles. (Russian) **89h:92073**
(Velikhov, E. P.) *see* **Intellectual processes and their modeling, 89b:92032**
Ventriglia, F. Learning in a cortical-like neural system model. (*see* **89f:92002**)
Verbeek, Albert *see* **van Blokland-Vogelesang, Rian; et al., 89g:92065**
Versluis, Edward B. M. C. Escher's "likely impossibilities": using the beauty of mathematics to create the truth of art. (*see* **89m:00011**)
Viana, L. Spin glass model for a neural network: associative memories stored with unequal weights. (French summary) **89c:92088**
Vickers, Douglas *see* **Smith, Philip L., 89h:92072**
Wan Abdullah, Wan Ahmad Tajuddin Biologic. **89k:92084**
Weber, Elke U. Expectation and variance of item resemblance distributions in a convolution-correlation model of distributed memory. **89e:92054**
Wittner, Ben *see* **Denker, John; et al., 89k:92080**
Wright, J. E. *see* **Ta'eed, Latha K.; et al.,** (Not in MR)
Yager, Ronald R. On the representation of transition matrices by possibility-probability granules. **89g:92070**
Zak, M. The least constraint principle for learning in neurodynamics. **89m:92060**
Zeleznikar, Anton P. Information determinations. I. **89k:92085**
Zheng, Ming Zhu *see* **Chen, Tu Yun, 89m:92054**
Zwick, Rami (*with* Carlstein, E.; Budescu, David V.) Measures of similarity among fuzzy concepts: a comparative analysis. **89g:92071**

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Items with secondary classifications in 92A25

Abdusamatov, R. M. (*with* Berkinblit, M. B.; Fel'dman, A. G.; Chernavskiĭ, A. V.) Motility and intellect. (Russian) (*see* **89b:92032**)
Aizenman, Michael (*with* Fernández, Roberto) Critical exponents for long-range interactions. **89h:82041**
Amit, Daniel J. *see* **Perez Vicente, Conrado J., 89m:92028**
Ammar, Salwa Determining the "best" decision in the presence of imprecise information. **89k:03060**
Arbib, Michael A. ★ Brains, machines, and mathematics. **89h:68034**
Arcas, Antoni On the representation of a set by additive trees. (Spanish. English summary) **89m:05043**
Bakhmutova, I. V. (*with* Mes'kov, V. S.; Samokhvalov, K. F.) Theories, measurements and theories of measurements. (Russian) **89g:03010**
Baracs, Janos Spatial perception and creativity. (*see* **89b:52016**)
Barthélémy, Jean-Pierre (*with* Mullet, E.) Choice basis: a model for multi-attribute preference. **89i:90001**
Batchelder, William H. (*with* Romney, A. Kimball) Test theory without an answer key. **89e:62139**
Bek, Roman *see* **Valášek, Michael; et al.,** (Not in MR)
Bérczi, Szaniszló Escherian and non-Escherian developments of new frieze types in Hanti and old Hungarian communal art. (*see* **89m:00011**)
Berkinblit, M. B. *see* **Abdusamatov, R. M.; et al.,** (**89b:92032**)
Boddy, Mark *see* **Dean, Thomas, 89j:03010**
Boite, René (*with* Kunt, Murat) ★ Traitement de la parole. (French) [Speech processing] **89f:94001**
Bonanno, Giacomo (*with* Zeeman, E. Christopher) Divergence of choices despite similarity of characteristics: an application of catastrophe theory. **89h:90054**
Bueno de Mesquita, Bruce (*with* Lalman, David) Arms races and the opportunity for peace. (*see* **89e:90218**)
Bullock, D. (*with* Grossberg, S.) Self-organizing neural architectures for eye movements, arm movements, and eye-arm coordination. (*see* **89i:92026**)
Bundy, Alan Incidence calculus: a mechanism for probabilistic reasoning. **89j:68140**
Cao, Zhi Qiang (*with* Kim, Ki Hang; Roush, F. W.) ★ Incline algebra and applications. **89b:08001**
Chen, J. W. (*with* Clark, John W.; Kürten, K. E.) Modelling of neural systems in continuous time. **89d:92021**
Chernavskiĭ, A. V. *see* **Abdusamatov, R. M.; et al.,** (**89b:92032**)
Christensen, Jens Peter Reus *see* **Oommen, B. J., 89j:68113**
Chudáček, Ivo The quantitative evaluation of image quality and definition of an image. (Not in MR)
Clark, John W. *see* **Chen, J. W.; et al., 89d:92021**
Clinton, Roy J. (*with* Troutt, Marvin D.) Toward optimal scaling in the method of abstract forces for interactive multiple criteria optimization. (*see* **89d:00007**)
Cohen, Michèle (*with* Jaffray, Jean-Yves) Preponderance of the certainty effect over probability distortion in decision making under risk. **89f:90017**
Cowen, Tyler Normative population theory. (Not in MR)
Cucumel, Guy *see* **Leclerc, Bruno, 89d:92003**
Dean, Thomas (*with* Boddy, Mark) Reasoning about partially ordered events. **89j:03010**
Derrida, B. (*with* Nadal, J.-P.) Learning and forgetting on asymmetric, diluted neural networks. **89c:92013**
Detlovs, V. K. Harmony and the melodic line. (Russian. English summary) **89b:00043**
Doignon, Jean-Paul *see* **Falmagne, Jean-Claude, 89i:90004**
Drasgow, Fritz *see* **Levine, Michael V., 89e:62140**
Dubois, Didier (*with* Prade, Henri) On the combination of uncertain or imprecise pieces of information in rule-based systems—a discussion in the framework of possibility theory. (Not in MR)
(Emmer, M.) *see* **Penrose, Roger,** (**89m:00011**)
(Escher, M. C.) *see* **Penrose, Roger,** (**89m:00011**)
(Eskenazi, I.) *see* **Kilpatrick, Jeremy, 89b:00036**
Falmagne, Jean-Claude (*with* Doignon, Jean-Paul) A Markovian procedure for assessing the state of a system. **89i:90004**
Fel'dman, A. G. *see* **Abdusamatov, R. M.; et al.,** (**89b:92032**)
Fernández, Roberto *see* **Aizenman, Michael, 89h:82041**
Finn, V. K. *see* **Gusakova, S. M., 89m:68012**
Fischbein, Efraim ★ Intuition in science and mathematics. **89d:00015**
(Fleck, George) *see* **Shaping space, 89b:52016**
Fogelman-Soulié, Françoise Representation of knowledge and learning on automata networks. (*see* **89c:68078**)
Folger, Tina A. *see* **Klir, G. J., 89e:94028**
Fraser, Niall M. *see* **Wang, Muhong; et al., 89g:90267**
Fuchs, Armin (*with* Haken, Hermann) Nonequilibrium phase transitions in pattern recognition and associative memory. Numerical results. (Not in MR)
Gärdenfors, Peter ★ Knowledge in flux. **89k:00015**
Geman, Stuart (*with* Graffigne, Christine) Markov random field image models and their applications to computer vision. (*see* **89c:00042**)
— Stochastic relaxation methods for image restoration and expert systems. (*see* **89f:62002**)
Gensch, D. H. (*with* Javalgi, Rajshekhar G.) The role of sequential processing models in marketing research. **89b:90016**
Gergel', V. P. (*with* Strongin, L. G.; Strongin, P. G.) Neighborhood method in recognition problems. **89i:68107**
Ginsberg, Matthew L. (*with* Smith, David Eugene^2) Reasoning about action. I. A possible worlds approach. **89m:68128**
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— *see also* **Readings in nonmonotonic reasoning, 89m:68003**
Graffigne, Christine *see* **Geman, Stuart,** (**89c:00042**)
Grensing, D. *see* **van Hemmen, J. L.; et al., 89m:92020**
Grossberg, S. *see* **Bullock, D.,** (**89i:92026**)
Gusakova, S. M. (*with* Finn, V. K.) Logical inference and databases; similarities and plausible inference. **89m:68012**
Hadlock, Frank Minimum detour methods for string or sequence comparison. **89k:68054**
Haken, Hermann Learning in synergetic systems for pattern recognition and associative action. **89f:92014**
— *see also* **Fuchs, Armin,** (Not in MR) *and* **Neural and synergetic computers, 89i:92026**
Hargreaves, Colin P. Distributions of runs of consecutive ascending integers with unequal probabilities. **89j:60019**
Heijmans, H. J. A. M. Mathematical morphology: an algebraic approach. **89h:92085**
van Hemmen, J. L. (*with* Grensing, D.; Huber, A.; Kühn, Reimer) Nonlinear neural networks. II. Information processing. **89m:92020**
Hertz, J. A. *see* **Krogh, A., 89g:92019**
Hipel, Keith W. *see* **Wang, Muhong; et al., 89g:90267**
Huber, A. *see* **van Hemmen, J. L.; et al., 89m:92020**
Iosifescu, Marius ★ Skończone procesy Markowa i ich zastosowania. (Polish) [Finite Markov processes and their applications] **89m:60155**
Jaffray, Jean-Yves Some experimental findings on decision making under risk and their implications. **89m:90022**
— *see also* **Cohen, Michèle, 89f:90017**
Jahnke, Hans Niels (*with* Seeger, Falk) Piaget und Selz: logische Strukturen versus Erkenntnismittel. [Piaget and Selz: logical structures versus means of cognition] **89c:00050**
Jakobson, Gabriel ★ Soviet artificial intelligence research. **89k:68126**
Javalgi, Rajshekhar G. *see* **Gensch, D. H., 89b:90016**
Jourlin, M. (*with* Laget, B.; Matheron, G.; Meyer, Fernand Romain; Preteux, F.; Schmitt, Michel; Serra, J.) ★ Image analysis and mathematical morphology. Vol. 2. **89m:68139**
Jumarie, Guy Renyi entropy of maps: applications to fuzzy sets, pattern recognition, and chaotic dynamics. **89m:94007**
Kanal, Laveen (*with* Perlis, Donald) Uniform accountability for multiple modes of reasoning. **89i:68106**
Karwan, Mark H. *see* **Köksalan, Murat; et al., 89k:90093**
Kelso, J. A. S. *see* **Schöner, G., 89i:92061**
Kilpatrick, Jeremy Reflection and recursion. (Bulgarian) **89b:00036**
Kim, Ki Hang *see* **Cao, Zhi Qiang; et al., 89b:08001**
Klir, G. J. (*with* Folger, Tina A.) ★ Fuzzy sets, uncertainty, and information. **89e:94028**
Kobayashi, Kunikatsu (*with* Suzuki, Nobuaki; Nemoto, Yoshiaki; Sato, Richard) A consideration for measure of information based on the Dempster-Shafer theory. **89j:94021**
Kofránek, Jiří *see* **Valášek, Michael; et al.,** (Not in MR)
Kohonen, Teuvo ★ Self-organization and associative memory. **89c:68085**
Köksalan, Murat (*with* Karwan, Mark H.; Zionts, Stanley) An approach for solving discrete alternative multiple criteria problems involving ordinal criteria. **89k:90093**
Kozlov, V. N. *see* **Krushinskiĭ, L. V.; et al., 89j:92003**
Krogh, A. (*with* Hertz, J. A.) Mean-field analysis of hierarchical associative networks with "magnetisation". **89g:92019**
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Kudryavtsev, V. B. *see* **Krushinskiĭ, L. V.; et al., 89j:92003**
Kühn, Reimer *see* **van Hemmen, J. L.; et al., 89m:92020**
Kunt, Murat *see* **Boite, René, 89f:94001**
Kürten, K. E. *see* **Chen, J. W.; et al., 89d:92021**
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Lad, Frank The calibration question. **89a:62004**
Laget, B. *see* **Jourlin, M.; et al., 89m:68139**
Lalman, David *see* **Bueno de Mesquita, Bruce,** (**89e:90218**)
Lapan, Harvey E. *see* **Sandler, Todd,** (**89e:90218**)
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Lerman, I. C. Maximisation de l'association entre deux variables qualitatives ordinales. (English summary) [Maximal association between two ordinal qualitative variables] **89b:90013**
(Lettvin, Jerome) *see* **McCulloch, Warren S., 89f:01092**
Levesque, Hector J. Logic and the complexity of reasoning. **89k:68127**
Levine, Michael V. (*with* Drasgow, Fritz) Optimal appropriateness measurement. **89e:62140**
(Levinson, Stephen) *see* **Vysotsky, George,** (Not in MR)
Li, Fan^2 (*with* Xu, Jian) Inexact reasoning in expert systems for image analysis. (Chinese. English summary) **89m:68123**
Liu, Gui Ting (*with* Wang, Zhen Yuan) Extensions of consonant belief functions. (Chinese. English summary) **89h:03098**
Liu, Xu Hua Fuzzy reasoning with equality relation in operator fuzzy logic. **89k:03024**
(Lovie, A. D.) *see* **New developments in statistics for psychology and the social sciences, 89a:62002**
Luce, R. Duncan Measurement structures with Archimedean ordered translation groups. **89a:06042**
Matheron, G. *see* **Jourlin, M.; et al., 89m:68139**
(Mazur, Marian) *see* **Lechowski, Jerzy, 89i:01090**
McCulloch, Warren S. ★ Embodiments of mind. **89f:01092**
Mes'kov, V. S. *see* **Bakhmutova, I. V.; et al., 89g:03010**
Meyer, Fernand Romain *see* **Jourlin, M.; et al., 89m:68139**
Miller, Arthur I. ★ Imagery in scientific thought. **89k:01026**
Mills, J. A. The Bayesian learning model of expectations as a solution to the Lucas critique: some empirical evidence. (*see* **89d:00007**)
Moiseev, N. N. The theory of the noösphere and mathematical models. (Russian) **89j:92068**
Morel, J.-M. (*with* Solimini, S.) Segmentation of images by variational methods: a constructive approach. **89k:90183**
Mullet, E. *see* **Barthélémy, Jean-Pierre, 89i:90001**
Muraskin, M. Nonintegrable aesthetic field theory. **89k:81019**
Nadal, J.-P. *see* **Derrida, B., 89c:92013**
Narens, L. Meaningfulness and the Erlanger program of Felix Klein. (French summary) **89g:90045**
Nemoto, Yoshiaki *see* **Kobayashi, Kunikatsu; et al., 89j:94021**
Ng, Yew Kwang Hurka's gamble and Methuselah's paradox: a response to Cowen on normative population theory. (Not in MR)
Nicolis, John S. ★ Chaotic dynamics applied to biological information processing. **89b:58189**
Nieminen, Juhani Cluster analysis, *t*-ary relations, chaining and convexies of graphs. **89g:92005**
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Okabe, Atsuyuki Exact higher moments of the nearest neighbor distance. **89k:92003**
Olson, D. L. Opportunities and limitations of AHP in multiobjective programming. (*see* **89d:00007**)
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Oommen, B. J. (*with* Christensen, Jens Peter Reus) ε-optimal discretized linear reward-penalty learning automata. **89j:68113**
(Papert, Seymour) *see* **McCulloch, Warren S., 89f:01092**
Pawlak, Zdzisław Learning from examples. (Russian summary) **89f:68057**
Pearl, Judea (*with* Tarsi, Michael) Structuring causal trees. **89g:68056**
Penrose, Roger Escher and the visual representation of mathematical ideas. (*see* **89m:00011**)
Perez Vicente, Conrado J. (*with* Amit, Daniel J.) Optimised network for sparsely coded patterns. **89m:92028**
Perlis, Donald *see* **Kanal, Laveen, 89i:68106**
(Piaget, J.) *see* **Jahnke, Hans Niels, 89c:00050**
Pokorný, Zdeněk *see* **Valášek, Michael; et al.,** (Not in MR)
Ponsard, Claude Fuzzy mathematical models in economics. **89k:90013**
Pospelov, D. A. Artificial intelligence studies in the Soviet Union. (Russian summary) (Not in MR)
Prade, Henri *see* **Dubois, Didier,** (Not in MR)
Preteux, F. *see* **Jourlin, M.; et al., 89m:68139**
Purwins, H.-G. (*with* Radehaus, Ch.) Pattern formation on analogue parallel networks. (*see* **89i:92026**)
Radehaus, Ch. *see* **Purwins, H.-G.,** (**89i:92026**)
Rech, Paul *see* **Rothkopf, Michael H., 89b:90091**
Rietveld, Piet *see* **Nijkamp, Peter; et al., 89g:90007**
Romney, A. Kimball *see* **Batchelder, William H., 89e:62139**
Rothkopf, Michael H. (*with* Rech, Paul) Perspectives on queues: combining queues is not always beneficial. **89b:90091**
Roush, F. W. *see* **Cao, Zhi Qiang; et al., 89b:08001**
Sakai, Hiroshi On intellectual question-answering with incomplete informations. **89c:68091**
Samokhvalov, K. F. *see* **Bakhmutova, I. V.; et al., 89g:03010**
Sánchez-Mazas, Miguel An arithmetical language as an instrument of analysis and decision in logical and normative systems. (Spanish. English summary) **89a:03043**
Sandler, Todd (*with* Lapan, Harvey E.) The calculus of dissent: an analysis of terrorists' choice of targets. (*see* **89e:90218**)
Sato, Richard *see* **Kobayashi, Kunikatsu; et al., 89j:94021**
Schmitt, Michel *see* **Jourlin, M.; et al., 89m:68139**
Schöner, G. (*with* Kelso, J. A. S.) A dynamic pattern theory of behavioral change. **89i:92061**
Seeger, Falk *see* **Jahnke, Hans Niels, 89c:00050**
(Selz, O.) *see* **Jahnke, Hans Niels, 89c:00050**
Semadeni, Zbigniew Verbal problems in arithmetic teaching. **89m:00019**
(Senechal, Marjorie) *see* **Shaping space, 89b:52016**
Serra, J. *see* **Jourlin, M.; et al., 89m:68139**
Shiffrin, Richard (*with* Thompson, Maynard) Moments of transition-additive random variables defined on finite, regenerative random processes. **89j:60094**
Smith, David Eugene^2 *see* **Ginsberg, Matthew L., 89m:68128** *and* **89m:68129**
(Smith, Raoul) *see* **Jakobson, Gabriel, 89k:68126**
Solimini, S. *see* **Morel, J.-M., 89k:90183**
Solov'ev, S. Yu. (*with* Solov'eva, G. M.) Problems in the application of the method of alternatives for knowledge representation. **89j:68146**
Solov'eva, G. M. *see* **Solov'ev, S. Yu., 89j:68146**
Spronk, J. *see* **Nijkamp, Peter; et al., 89g:90007**
Strongin, L. G. *see* **Gergel', V. P.; et al., 89i:68107**
Strongin, P. G. *see* **Gergel', V. P.; et al., 89i:68107**
Suzuki, Nobuaki *see* **Kobayashi, Kunikatsu; et al., 89j:94021**
Tarsi, Michael *see* **Pearl, Judea, 89g:68056**
Thomason, Richmond H. Philosophical logic and artificial intelligence. (Not in MR)
Thompson, Maynard *see* **Shiffrin, Richard, 89j:60094**
Toussaint, Godfried T. Computational geometry and morphology. (*see* **89g:82013**)
Troutt, Marvin D. *see* **Clinton, Roy J.,** (**89d:00007**)
Vagin, V. N. ★ Дедукция и обобщение в системах принятия решений. (Russian) [Deduction and generalization in decision-making systems] **89k:68140**
Valášek, Michael (*with* Bek, Roman; Pokorný, Zdeněk; Kofránek, Jiří) The theory of a nonsubjective expert system based on casual analysis, new interpretation of fuzzy description and pattern recognition. (Russian summary) (Not in MR)
Vysotsky, George ★ Automatic speech recognition research in the USSR. (Not in MR)
Wang, Muhong (*with* Hipel, Keith W.; Fraser, Niall M.) Modeling misperceptions in games. **89g:90267**
Wang, Zhen Yuan *see* **Liu, Gui Ting, 89h:03098**
Weick, M. Hopfield model, Boltzmann machine, multilayer perceptron and selected applications. (*see* **89i:92026**)
Weld, Daniel S. Comparative analysis. (Not in MR)
Welti, Ernst ★ Die Philosophie des strikten Finitismus. (German) [The philosophy of strict finitism] **89j:00045**
(Wesołowski, Jacek) *see* **Iosifescu, Marius, 89m:60155**
Wilson, Stewart W. Bid competition and specificity reconsidered. **89m:92040**
Xu, Jian *see* **Li, Fan^2, 89m:68123**
Zeeman, E. Christopher *see* **Bonanno, Giacomo, 89h:90054**
Zionts, Stanley *see* **Köksalan, Murat; et al., 89k:90093**
Zuenkov, M. A. Functioning by analogy. **89e:03101**

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Biography:
  Mazur, Marian *see* **Lechowski, Jerzy, 89i:01090**
Conference:
  Shaping space ★ Shaping space. **89b:52016**
Neural and synergetic computers ★ Neural and synergetic computers. **89i:92026**
New developments in statistics for psychology and the social sciences ★ New developments in statistics for psychology and the social sciences. **89a:62002**
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92A27 Psychophysics, psychophysiology [see also 92A09]

Aidarkhanov, M. B. An approach to the analysis of initial data in pattern recognition problems. (Russian) **89j:92087**
Arbib, Michael A. *see* **Chipalkatti, Renu, 89g:92072**
Ashby, F. Gregory Counting and timing models in psychophysics and the conjoint Weber's law. **89c:92089**
Bennett, Bruce Michael *see* **Hoffman, D. D., 89c:92090**
Blake, Andrew (*with* Zisserman, Andrew) ★ Visual reconstruction. **89k:92086**
Bohdanecký, Z. *see* **Radil, T.; et al.,** (**89f:92002**)
Carlton, E. H. Connection between internal representation of rigid transformation and cortical activity paths. **89i:92070**
Chipalkatti, Renu (*with* Arbib, Michael A.) The cue interaction model of depth perception: a stability analysis. **89g:92072**
Chubb, Charles (*with* Sperling, George) Drift-balanced random stimuli: a general basis for studying non-Fourier motion perception. **89j:92088**
Dearholt, D. W. *see* **Schvaneveldt, R. W.; et al., 89e:92058**
Drösler, Jan The psychophysical function of binocular space perception. **89i:92071**
Durso, F. T. *see* **Schvaneveldt, R. W.; et al., 89e:92058**
Egelhaaf, M. *see* **Reichardt, W.; et al.,** (**89i:92026**)
Falmagne, Jean-Claude Propos sur la théorie du mesurage. (English summary) [Proposal on the theory of measurement] **89e:92055**
Fishburn, Peter C. (*with* Roberts, Fred S.) Unique finite conjoint measurement. **89h:92074**
French, Robert E. ★ The geometry of vision and the mind body problem. **89g:92073**
Gamble, E. B. *see* **Poggio, T.; et al., 89k:92087**
(Grossberg, S.) *see* **Neural networks and natural intelligence, 89m:92062**
Heiser, Willem J. Selecting a stimulus set with prescribed structure from empirical confusion frequencies. **89f:92069**
Herlin, Isabelle *see* **Simon, Jean-Claude, 89j:92091**
Hertz, J. A. A "gauge theory" in computational vision: a model for outline extraction. **89m:92061**

Hoffman, D. D. (*with* Bennett, Bruce Michael) Erratum: "The computation of structure from fixed-axis motion: rigid structures" [Biol. Cybernet. **54** (1986), no. 2, 71–83; MR 87i:92068]. **89c:92090**

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Irtel, Hans On specific objectivity as a concept in measurement. **89a:92074**

Iverson, Geoffrey J. Thurstonian psychophysics: case III. **89e:92056**

Knutsson, H. *see* **Wilson, Roland G.**, **89c:92092**

Koenderink, J. J. The structure of the visual field. (*see* **89b:58064**)

— Scale-time. **89a:92075**

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— (*with* Richards, Whitman) Two-dimensional curvature operators. **89f:92070**

Kugushev, E. I. *see* **Zueva, E. Yu.**, **89i:92072** *and* **89j:92093**

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Leyton, Michael A limitation theorem for the differentiable prototypification of shape. **89b:92033**

Little, J. J. *see* **Poggio, T.; et al.**, **89k:92087**

Luce, R. Duncan Measurement representations of ordered, relational structures with Archimedean ordered translations. (French summary) **89f:92071**

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Mates, J. *see* **Radil, T.; et al.**, (**89f:92002**)

Mortensen, U. Visual contrast detection by a single channel versus probability summation among channels. **89f:92073**

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Nielsen, Kenneth R. K. (*with* Wandell, Brian A.) Discrete analysis of spatial-sensitivity models. **89c:92091**

Niizuma, M. *see* **Nakano, K.; et al.**, **89j:92089**

Nikolaev, P. P. Models for constant visual perception. (Russian) **89h:92076**

Omori, T. *see* **Nakano, K.; et al.**, **89j:92089**

Petrov, A. P. *see* **Zenkin, G. M.**, (**89b:92032**)

Poggio, T. (*with* Gamble, E. B.; Little, J. J.) Parallel integration of vision modules. **89k:92087**

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Richards, Whitman *see* **Koenderink, J. J.**, **89f:92070**

Roberts, Fred S. (*with* Rosenbaum, Zangwill) Tight and loose value automorphisms. **89j:92090**

— *see also* **Fishburn, Peter C.**, **89h:92074**

Rosenbaum, Zangwill *see* **Roberts, Fred S.**, **89j:92090**

Samoĭlovich, L. A. *see* **Kurganskiĭ, A. V.; et al.**, (Not in MR)

Schempp, Walter The holographic transform and the neural model. **89h:92077**

Schlögl, R. W. *see* **Reichardt, W.; et al.**, (**89i:92026**)

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Sperling, George *see* **Chubb, Charles**, **89j:92088**

Takiyama, Ryuzo The geometrization of the discriminal process model and the psychophysical functions. **89j:92092**

Trush, V. D. *see* **Kurganskiĭ, A. V.; et al.**, (Not in MR)

Ventre, Aldo G. S. (*with* Weber, Siegfried) Evaluations of fuzzy sets based on orderings and measures. **89k:92088**

Wandell, Brian A. *see* **Nielsen, Kenneth R. K.**, **89c:92091**

Weber, Siegfried *see* **Ventre, Aldo G. S.**, **89k:92088**

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Antoranz, J. C. *see* **Rubio, M. A.; et al.**, **89b:70013**

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Bonetti, Flavio (*with* Civolani, Nino) On the product of two tolerances. (Italian summary) **89g:08002**

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Chajda, Ivan (*with* Zelinka, B.) Tolerances and congruences on implication algebras. **89k:08001**

Civolani, Nino *see* **Bonetti, Flavio**, **89g:08002**

Diederich, Sigurd *see* **Opper, Manfred; et al.**, **89m:92026**

(Fechner, Gustav Theodor) *see* **Heidelberger, Michael**, **89a:01034**

Gerasin, S. N. (*with* Sitnikov, D. È.; Shabanov-Kushnarenko, S. Yu.) Difunctionality predicates. (Russian) **89b:04002**

Gibiat, V. Phase space representations of acoustical musical signals. **89i:58085**

Hall, Ernest L. (*with* Park, Kyoung T.) Form recognition using moment invariants for three-dimensional perspective transformations. (*see* **89g:82013**)

Heidelberger, Michael Fechner's indeterminism: from freedom to laws of chance. **89a:01034**

Heiligenberg, W. *see* **Baldi, Pierre**, **89k:92075**

(von Helmholtz, Hermann) *see* **Bailhache, Patrice**, **89j:01037**

Hestenes, David Inductive inference by neural networks. **89j:92030**

Kamp, Y. *see* **Bourlard, H.**, **89f:92016**

Knight, B. W. *see* **Sirovich, L.**, **89b:92019**

Neumaier, Wilfried ★ Was ist ein Tonsystem? (German) [What is a tone system?] **89d:01007**

Nowiński, W. L. Image reconstruction methods and a tool for their investigation. (Russian summary) **89k:68153**

Opper, Manfred (*with* Diederich, Sigurd; Anlauf, Joachim K.) Statistical mechanics of learning in neural network models. **89m:92026**

Park, Kyoung T. *see* **Hall, Ernest L.**, (**89g:82013**)

Rubio, M. A. (*with* de la Torre, M.; Antoranz, J. C.; Velarde, Manuel G.) Digital and analog approach to intermittencies and $1/f$ noise in a nonlinear Helmholtz oscillator. **89b:70013**

Shabanov-Kushnarenko, S. Yu. *see* **Gerasin, S. N.; et al.**, **89b:04002**

Sirovich, L. (*with* Knight, B. W.) Two-scale eigenfunction methods with an application to the visual system. **89b:92019**

Sitnikov, D. È. *see* **Gerasin, S. N.; et al.**, **89b:04002**

Skalmierski, Bogdan How mathematics improves the violin. (Polish) (Not in MR)

de la Torre, M. *see* **Rubio, M. A.; et al.**, **89b:70013**

Velarde, Manuel G. *see* **Rubio, M. A.; et al.**, **89b:70013**

Zelinka, B. *see* **Chajda, Ivan**, **89k:08001**

92A40 Chemistry [see also 80A30, 80A32, 92A05, 92A09]

Abagyan, R. A. *see* **Mazur, A. K.; et al.**, **89k:92090**

Adler, Nevenka (*with* Kovačić-Beck, L.) The correlation between physical properties and topological indices of *n*-alkanes. **89c:92093**

Agarwal, Krishna K. *see* **Benstock, Joseph D.; et al.**, **89c:92095**

Aida, Misako *see* **Hosoya, Haruo; et al.**, **89d:92097**

Alexander, S. A. *see* **Klein, D. J.**, (**89b:92038**)

Almoyan, R. G. (*with* Mardzhanyan, G. G.; Safaryan, A. G.; Martirosyan, G. A.) Comparative analysis of Pontryagin's maximum principle with the gradient method in the optimization of the process of parophase synthesis of allylacetate. (Russian. Armenian summary) **89f:92074**

Argoul, F. *see* **Arneodo, A.; et al.**, **89d:92089**

Aris, R. *see* **McKarnin, M. A.; et al.**, **89d:92100**

Arneodo, A. (*with* Argoul, F.; Richetti, P.; Roux, J. C.) The Belousov-Zhabotinskiĭ reaction: a paradigm for theoretical studies of dynamical systems. **89d:92089**

Arteca, Gustavo A. (*with* Mezey, Paul G.) Shape characterization of some molecular model surfaces. **89e:92059**

Artemi, Cristian (*with* Balaban, Alexandru T.) Mathematical modeling of polymers. II. Irreducible sequences in *n*-ary copolymers. **89a:92079**

— *see also* **Balaban, Alexandru T.**, **89a:92078**; **89e:92060** *and* **89j:92094**

Baker, Bernadette Marie *see* **Randić, M.**, **89g:92089**

Balaban, Alexandru T. Numerical modelling of chemical structures: local graph invariants, and topological indices. **89h:92078**

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— (*with* Artemi, Cristian; Tomescu, Ioan) Algebraic expressions for Kekulé structure counts of nonbranched regularly cata-condensed benzenoid hydrocarbons. **89e:92060**

— (*with* Brunvoll, J.; Cioslowski, Jerzy; Cyvin, B. N.; Cyvin, S. J.; Gutman, I.; He, Wen Chen; He, Wen Jie; Knop, J. V.; Kovačević, M.; Müller, W. R.; Szymanski, K.; Tošić, Ratko; Trinajstić, N.) Enumeration of benzenoid and coronoid hydrocarbons. **89d:92090**

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— *see also* **Artemi, Cristian**, **89a:92079** *and* **Randić, M.; et al.**, **89g:92088**

Balasubramanian, K. Computational graph theory. **89g:92074**

— (*with* Liu, Xiaoyu) Computer generation of spectra of graphs: applications to C_{60} clusters and other systems. (Not in MR)

— Tree pruning and lattice statistics on Bethe lattices. **89g:92075**

— *see also* **Liu, Xiaoyu**, **89m:92065**

Basak, Subhash (*with* Magnuson, V. R.; Niemi, G. J.; Regal, R. R.) Determining structural similarity of chemicals using graph-theoretic indices. **89c:92094**

— *see also* **Johnson, Mark Allyn; et al.**, (**89d:00007**)

Benstock, Joseph D. (*with* Berndt, Donald J.; Agarwal, Krishna K.) Graph embedding in SYNCHEM2, an expert system for organic synthesis discovery. **89c:92095**

Berndt, Donald J. *see* **Benstock, Joseph D.; et al.**, **89c:92095**

Bertz, Steven H. Branching in graphs and molecules. **89d:92091**

Blumen, A. *see* **Zumofen, G.; et al., 89e:92067**

Boissonade, J. *see* **De Kepper, P., (89f:92003)**

Bonchev, Danail (*with* Polansky, Oskar E.) On the topological complexity of chemical systems. **89g:92076**

Bondarev, B. V. Statistical theory of systems of created reactive species. **89g:92077**

Borgis, D. (*with* Moreau, M.) Nucleation theory for a model bistable chemical reaction. **89f:92076**

Bowers, Peter (*with* Noyes, Richard M.) Gas evolution oscillators. (Russian) (*see* **89f:92003**)

Brindley, J. (*with* Kaas-Petersen, Chr.; Merkin, J. H.; Scott, Stephen K.) A simple model for sustained oscillations in isothermal branched-chain or autocatalytic reactions in a well-stirred open system. III. Multiple stationary states and Hopf bifurcations. **89i:92073**

Brocas, J. Permutational description of the dynamics of octacoordinate polyhedra. **89h:92079**

Brown, David W. *see* **Lindenberg, Katja; et al., (89j:82002)**

Bruce, Annadora J. *see* **Herndon, W. C., 89c:92101**

Brunvoll, J. *see* **Cyvin, S. J.; et al., 89c:92097; Balaban, Alexandru T.; et al., 89d:92090** *and* **Cyvin, B. N.; et al., 89g:92079**

Bryan, R. K. Maximum entropy and the phase problem in protein crystallography. (*see* **89f:62002**)

Bujdosó, Ernő *see* **Burger, Mária, (89f:92003)**

Burdett, Jeremy K. Topology and the structures of molecules and solids. **89d:92092**

Burger, Mária (*with* Bujdosó, Ernő) Oscillating chemical reactions as an example of the development of a subfield of science. (Russian) (*see* **89f:92003**)

Burton, Robert M., Jr. (*with* Ravishankar, K.; Palmes, E. D.) Convergence to steady state in a diffusional sampler. **89h:92080**

Cao, Li *see* **Wu, Da Jin, 89h:92084**

Chen, Rong Si The enumeration of Kekulé structures of rectangle-shaped benzenoids. **89d:92093**

— (*with* Cyvin, S. J.; Cyvin, B. N.) On the number of Kekulé structures for rectangle-shaped benzenoids. III, IV. **89c:92096**

— *see also* **Cyvin, S. J.; et al., 89c:92097; 89c:92098; Zheng, Mao Lin, 89f:92085; Zhang, Fu Ji; et al., 89g:92091** *and* **89i:92082**

Cherepanov, A. I. *see* **Kafarov, V. V.; et al., 89a:92085**

Chida, Kanako *see* **Hosoya, Haruo; et al., 89d:92097**

Chieh, Chung Polyhedra and crystal structures. (*see* **89b:52016**)

Christiansen, P. L. Coherent excitations in some physical and biochemical systems. **89a:92080**

— *see also* **Cruzeiro-Hansson, L.; et al., 89e:92061**

Cioslowski, Jerzy *see* **Balaban, Alexandru T.; et al., 89d:92090**

Cohen, Joel E. Threshold phenomena in random structures. **89g:92078**

Cruzeiro-Hansson, L. (*with* Christiansen, P. L.; Elgin, J. N.) Comment on "Self-trapping on a dimer: time-dependent solutions of a discrete nonlinear Schrödinger equation". **89e:92061**

Cyvin, B. N. (*with* Brunvoll, J.; Cyvin, S. J.; Gutman, I.) Distribution of K, the number of Kekulé structures in benzenoid hydrocarbons. III. Kekulé structure statistics. **89g:92079**

— (*with* Cyvin, S. J.) Enumeration of Kekulé structures: pentagon-shaped benzenoids. IV. Seven-tier pentagons and related classes. **89a:92081**

— *see also* **Chen, Rong Si; et al., 89c:92096; Cyvin, S. J.; et al., 89c:92097; 89c:92098** *and* **Balaban, Alexandru T.; et al., 89d:92090**

Cyvin, S. J. Extended application of an algorithm for the number of Kekulé structures. **89b:92034**

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— (*with* Cyvin, B. N.; Chen, Rong Si) On the number of Kekulé structures for rectangle-shaped benzenoids. VI. **89c:92098**

— *see also* **Cyvin, B. N., 89a:92081; Chen, Rong Si; et al., 89c:92096; Balaban, Alexandru T.; et al., 89d:92090; Cyvin, B. N.; et al., 89g:92079** *and* **Gutman, I., 89j:92096**

Davydov, A. S. (*with* Ermakov, V. N.) Soliton generation at the boundary of a molecular chain. **89i:92074**

De Kepper, P. (*with* Boissonade, J.) From bistability to sustained oscillations in homogeneous chemical systems in flow reactor mode. (Russian) (*see* **89f:92003**)

Dekhtyar, M. L. *see* **Dyadyusha, Georgii G.; et al., 89k:92089**

Dias, Jerry Ray Rapid computation of the eigenvalues of small heterocycles using a functional group-like concept. **89e:92062**

Dress, Andreas (*with* Gerhardt, Martin; Schuster, Heike) Cellular automata simulating the evolution of structure through the synchronization of oscillators. **89m:92063**

— (*with* Havel, Timothy F.) Shortest-path problems and molecular conformation. **89e:92063**

Dyadyusha, Georgii G. (*with* Dekhtyar, M. L.; Kornilov, Mikhail Yu.) Inverse adjacency matrix and spectral properties of chemical graphs. **89k:92089**

Easthope, Peter L. (*with* Havel, Timothy F.) Computational experience with an algorithm for tetrangle inequality bound smoothing. **89m:92064**

Edelson, David (*with* Rabitz, Herschel) Numerical techniques for modeling and analysis of oscillating reactions. (Russian) (*see* **89f:92003**)

Eilbeck, J. C. Nonlinear vibrational modes in a hexagonal molecule. (Russian summary) **89e:92064**

El-Basil, Sherif Graphs of chemistry and physics: on data reduction of chemical information. **89d:92094**

— Binomial-combinatorial properties of Clar structures. **89f:92077**

— *see also* **Randić, M.; et al., (89d:00007)**

Elenin, G. G. (*with* Lysak, T. M.) Dissipative structures in a model reaction of the oxidation of carbon monoxide. **89i:92075**

Elgin, J. N. *see* **Cruzeiro-Hansson, L.; et al., 89e:92061**

Elkin, V. I. Some topological properties of two types of S, T-isomers. **89j:92095**

Elyakov, G. B. *see* **Mazur, A. K.; et al., 89k:92090**

Epstein, Irving R. (*with* Orban, M.) Halogen-based oscillators in a flow reactor. (Russian) (*see* **89f:92003**)

Ermakov, V. N. *see* **Davydov, A. S., 89i:92074**

Farrell, E. J. (*with* Grell, J. C.) Cycle decompositions of linear benzene chains. **89a:92082**

— *see also* **Gutman, I., 89a:92083**

Flapan, Erica Chirality of nonstandardly embedded Möbius ladders. **89h:92081**

— Symmetries of knotted hypothetical molecular graphs. **89g:92080**

Fleck, George Form, function, and functioning. (*see* **89b:52016**)

Flemming, Diva Marilia *see* **Taneja, Inder Jeet, 89i:92080**

Fukui, Kenichi Orbital presentation of chemical reactions. (*see* **89m:01069**)

Furrow, Stanley D. Chemical oscillators based on iodate ion and hydrogen peroxide. (Russian) (*see* **89f:92003**)

Galina, Henryk (*with* Sysło, Maciej M.) Some applications of graph theory to the study of polymer configuration. **89c:92099**

Gerhardt, Martin *see* **Dress, Andreas; et al., 89m:92063**

Gimarc, Benjamin M. (*with* Ott, Jane J.) Graphs for chemical reaction networks: applications to the isomerizations among the carboranes. (*see* **89b:92038**)

Graovac, Ante *see* **Gutman, I.; et al., 89f:92078**

Gray, Peter (*with* Scott, Stephen K.) Isothermal oscillations and relaxation ignitions in gas-phase reactions: the oxidations of carbon monoxide and hydrogen. (Russian) (*see* **89f:92003**)

Greiner, H. Computing complex chemical equilibria by generalized linear programming. **89d:92095**

Grell, J. C. *see* **Farrell, E. J., 89a:92082** *and* **Gutman, I., 89a:92083**

Griffiths, John F. Thermokinetic oscillations in homogeneous gas-phase oxidations. (Russian) (*see* **89f:92003**)

Guo, Xiao Feng *see* **Zhang, Fu Ji, 89a:92086; 89g:92091; 89i:92082** *and* **89m:92068**

Gutman, I. Comment on the paper: "Cycle decompositions of linear benzene chains" [Match No. 21 (1986), 325–337; MR 89a:92082] by E. J. Farrell and J. C. Grell. **89a:92083**

— (*with* Graovac, Ante; Polansky, Oskar E.) Spectral properties of some structurally related graphs. **89f:92078**

— (*with* Cyvin, S. J.) Hosoya index of fused molecules. **89j:92096**

— *see also* **Balaban, Alexandru T.; et al., 89d:92090** *and* **Cyvin, B. N.; et al., 89g:92079**

Gyökér, S. On a supercritical Hopf bifurcation in a chemical model. **89d:92096**

Hanson, M. P. (*with* Rouvray, D. H.) The use of topological indices to estimate the melting points of organic molecules. (*see* **89b:92038**)

Harary, Frank (*with* Mezey, Paul G.) Embedding and characterization of quantum chemical reaction graphs on two-dimensional orientable surfaces. **89e:92065**

Hargittai, I. (*with* Hargittai, Magdolna) Polyhedral molecular geometries. (*see* **89b:52016**)

Hargittai, Magdolna *see* **Hargittai, I., (89b:52016)**

Hass, E.-C. (*with* Plath, P. J.) The principle of valency conservation. I. The skeleton influence on pericyclic reactions. **89c:92100**

Hässelbarth, Werner The inverse problem of isomer enumeration. **89a:92084**

Havel, Timothy F. *see* **Dress, Andreas, 89e:92063** *and* **Easthope, Peter L., 89m:92064**

He, Wen Chen (*with* He, Wen Jie) One-to-one correspondence between Kekulé and sextet patterns. **89g:92081**

— *see also* **Balaban, Alexandru T.; et al., 89d:92090** *and* **He, Wen Jie, 89g:92082**

He, Wen Jie (*with* He, Wen Chen) On Kekulé structure and P-V path method. **89g:92082**

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Hellner, E. Einführung in eine anorganische Strukturchemie. (English summary) [Introduction to an inorganic structure chemistry] **89j:92097**

Henderson, R. V. *see* **Klopman, Gilles; et al., (89d:00007)**

Herndon, W. C. (*with* Bruce, Annadora J.) Perimeter codes for benzenoid aromatic hydrocarbons. **89c:92101**

— Graph codes and a definition of structural similarity. **89f:92079**

— *see also* **Radhakrishnan, T. P., (Not in MR)**

Hite, G. E. *see* **Seitz, W. A.; et al., (89b:92038)**

Hosoya, Haruo (*with* Uchiyama, Atsuko; Kadota, Misa; Chida, Kanako; Aida, Misako; Yamaguchi, Tamië) Tables of the nonadjacent number, topological index, and characteristic polynomials of heptahex graphs. **89d:92097**

(Hsieh, Chin Chiao) *see* **Tang, Ao Qing; et al., 89d:92102**

Hubbard, J. B. (*with* McQuarrie, D. A.) Mobility fluctuations and electrophoretic light scattering from macromolecular solutions. **89i:92076**

Itskova, P. G. *see* **Verzhbitskaya, I. S., (89m:00007)**

Jiang, Yuan Sheng *see* **Tang, Ao Qing; et al., 89d:92102**

Johnson, Mark Allyn (*with* Naim, Mary; Nicholson, Victor; Tsai, Chun-Che) Unique mathematical features of the substructure metric approach to quantitative molecular similarity analysis. (*see* **89b:92038**)

— (*with* Basak, Subhash; Maggiora, Gerald) A characterization of molecular similarity methods for property prediction. (*see* **89d:00007**)

— *see also* **Tsai, Chun-Che; et al., (89b:92038)**

Jonish, David P. (*with* Millett, K. C.) Extrinsic topological chirality indices of molecular graphs. **89j:92098**

Jovanović, Antonije D. Combinatorial characterization of hexagonal systems. **89g:92083**

Kaas-Petersen, Chr. *see* **Brindley, J.; et al., 89i:92073**

Kadota, Misa *see* **Hosoya, Haruo; et al., 89d:92097**

Kafarov, V. V. (*with* Cherepanov, A. I.; Shumikhin, A. G.; Shcherbakova, S. V.) Self-organization of spatial structures in radical polymerization processes. (Russian) **89a:92085**

Karplus, Martin Molecular dynamics: from $H + H_2$ to biomolecules. (*see* **89m:01069**)

Katović, V. *see* **Randić, M.; et al., 89g:92088**

Kawakami, Hiroshi *see* **Sakamoto, Akio; et al., 89k:92092**

Kay, S. R. (*with* Scott, Stephen K.) Multiple stationary states, sustained oscillations and transient behaviour in autocatalytic reaction-diffusion equations. **89i:92077**

Keener, James P. The dynamics of three-dimensional scroll waves in excitable media. **89f:92080**

(Kennedy, John W.) *see* **Applications of graphs in chemistry and physics, 89b:92037** *and* **89j:92101**

Kerr, W. C. *see* **Lomdahl, P. S., 89e:92066**

Khrustalev, A. F. *see* **Mazlumyan, T. M., 89d:92099**

King, R. Bruce Topological aspects of infinite metal clusters and superconductors. (*see* **89b:92038**)

— Chemical applications of topology and group theory. XXIV. Chiralization of chemically significant polyhedra. **89d:92098**

— *see also* **Randić, M.; et al.**, **(89d:00007)** *and* **Graph theory and topology in chemistry, 89b:92038**

Kirby, E. C. Coding and factorisation of polycyclic chemical graphs. **89c:92102**

Klafter, J. *see* **Zumofen, G.; et al., 89e:92067**

Klein, D. J. (*with* Alexander, S. A.) Organic polyradicals, high-spin hydrocarbons, and organic ferromagnets. (*see* **89b:92038**)

— *see also* **Randić, M.; et al., 89g:92088** *and* **Seitz, W. A.; et al., (89b:92038)**

Klopman, Gilles (*with* Raychaudhury, Chandan) A novel approach to the use of graph theory in structure-activity relationship studies. Application to the qualitative evaluation of mutagenicity in a series of nonfused ring aromatic compounds. **89b:92035**

— (*with* Raychaudhury, Chandan; Henderson, R. V.) A new approach to structure-activity using distance information content of graph vertices: a study with phenylalkylamines. (*see* **89d:00007**)

Knop, J. V. *see* **Balaban, Alexandru T.; et al., 89d:92090**

Kornilov, Mikhail Yu. *see* **Dyadyusha, Georgii G.; et al., 89k:92089**

Kovačević, M. *see* **Balaban, Alexandru T.; et al., 89d:92090**

Kovačić-Beck, L. *see* **Adler, Nevenka, 89c:92093**

Kuznetsov, S. V. Calculation of the stationary front of a chemical reaction. (Russian) **89f:92081**

Leyvraz, F. Reaction kinetics for diffusion controlled aggregation. **89g:92084**

Li, Ru Sheng Chemical oscillations and multistability phenomena in bimolecular isothermal reaction systems. (Chinese. English summary) **89h:92082**

Lindenberg, Katja (*with* Brown, David W.; Wang, Xidi) A review of current issues in the quantum theory of envelope solitons. (*see* **89j:82002**)

Liu, Xiaoyu (*with* Balasubramanian, K.) Computer generation of edge groups and edge colorings of graphs. **89m:92065**

— *see also* **Balasubramanian, K.**, (Not in MR)

Lomdahl, P. S. (*with* Kerr, W. C.) Finite temperature effects on models of hydrogen-bonded polypeptides. (Russian summary) **89e:92066**

Lysak, T. M. *see* **Elenin, G. G., 89i:92075**

Maggiora, Gerald *see* **Johnson, Mark Allyn; et al., (89d:00007)**

Magnuson, V. R. *see* **Basak, Subhash; et al., 89c:92094**

Mann, J. Adin, Jr. *see* **Pittel, B.; et al., (89b:92038)**

Mardzhanyan, G. G. *see* **Almoyan, R. G.; et al., 89f:92074**

Martirosyan, G. A. *see* **Almoyan, R. G.; et al., 89f:92074**

Mazlumyan, T. M. (*with* Khrustalev, A. F.) Some theorems on molecular formulas. (Russian) **89d:92099**

Mazur, A. K. (*with* Abagyan, R. A.; Elyakov, G. B.) A new approach to modeling the structure and dynamics of biomacromolecules and their complexes. (Russian) **89k:92090**

McKarnin, M. A. (*with* Aris, R.; Schmidt, L. D.) Autonomous bifurcations of a simple bimolecular surface-reaction model. **89d:92100**

McQuarrie, D. A. *see* **Hubbard, J. B., 89i:92076**

Merkin, J. H. *see* **Brindley, J.; et al., 89i:92073**

Mezey, Paul G. New developments in reaction topology. **89c:92103**

— *see also* **Arteca, Gustavo A., 89e:92059** *and* **Harary, Frank, 89e:92065**

Millett, K. C. Stereotopological indices for a family of chemical graphs. **89c:92104**

— *see also* **Jonish, David P., 89j:92098**

Moreau, M. *see* **Borgis, D., 89f:92076**

Morikawa, Tetsuo Algebraic generation of rational formulas for acyclic chemical compounds. **89j:92099**

Mukherjee, Asok K. Eigenvalues of large even annulenes in terms of K_3, S_4 and S_5. **89g:92085**

Müller, W. R. *see* **Balaban, Alexandru T.; et al., 89d:92090**

Mzhel'skaya, E. V. Graphs of polycyclic bonds. (Russian) **89g:92086**

Naim, Mary *see* **Johnson, Mark Allyn; et al., (89b:92038)** *and* **Tsai, Chun-Che; et al., (89b:92038)**

Nandapurkar, P. J. (*with* Winfree, Arthur T.) A computational study of twisted linked scroll waves in excitable media. **89g:92087**

Nicholson, Victor *see* **Johnson, Mark Allyn; et al., (89b:92038)** *and* **Tsai, Chun-Che; et al., (89b:92038)**

Niemi, G. J. *see* **Basak, Subhash; et al., 89c:92094**

Nikolić, Sonja *see* **Randić, M.; et al., 89c:92105**

Noyes, Richard M. *see* **Bowers, Peter, (89f:92003)**

Oakland, D. O. *see* **Randić, M.; et al., 89g:92088**

Orban, M. *see* **Epstein, Irving R., (89f:92003)**

Ortoleva, P. (*with* Schmidt, Steven L.) The structure and variety of chemical waves. (Russian) (*see* **89f:92003**)

Othmer, Hans G. The mathematical aspects of temporal oscillations in reacting systems. (Russian) (*see* **89f:92003**)

Ott, Jane J. *see* **Gimarc, Benjamin M., (89b:92038)**

Palmes, E. D. *see* **Burton, Robert M., Jr.; et al., 89h:92080**

Pauling, Linus Schrödinger's contribution to chemistry and biology. (*see* **89m:01069**)

Petrukhin, O. M. *see* **Salov, V. V.**, (Not in MR)

Pittel, B. (*with* Woyczyński, W. A.; Mann, J. Adin, Jr.) From Gaussian subcritical to Holtsmark ($\frac{3}{2}$-Levy stable) supercritical asymptotic behavior in "rings forbidden" Flory-Stockmayer model of polymerization. (*see* **89b:92038**)

Plath, P. J. *see* **Hass, E.-C., 89c:92100**

Polansky, Oskar E. *see* **Gutman, I.; et al., 89f:92078** *and* **Bonchev, Danail, 89g:92076**

(Quintas, Louis V.) *see* **Applications of graphs in chemistry and physics, 89b:92037** *and* **89j:92101**

Rabitz, Herschel *see* **Edelson, David, (89f:92003)**

Radhakrishnan, T. P. (*with* Herndon, W. C.) Molar volumes of alkanes and topological indices. (Not in MR)

Randić, M. (*with* Nikolić, Sonja; Trinajstić, N.) The conjugated circuits model: on the selection of the parameters for computing the resonance energies. **89c:92105**

— (*with* Klein, D. J.; Katović, V.; Oakland, D. O.; Seitz, W. A.; Balaban, Alexandru T.) Symmetry properties of chemical graphs. X. Rearrangement of axially distorted octahedra. **89g:92088**

— (*with* Baker, Bernadette Marie) Isospectral multitrees. **89g:92089**

— (*with* El-Basil, Sherif; King, R. Bruce) On nonsymmetry equivalence. (*see* **89d:00007**)

Ravishankar, K. *see* **Burton, Robert M., Jr.; et al., 89h:92080**

Raychaudhury, Chandan *see* **Klopman, Gilles, 89b:92035** *and* **(89d:00007)**

Regal, R. R. *see* **Basak, Subhash; et al., 89c:92094**

Rehmus, Paul (*with* Ross, John) Periodically perturbed chemical systems. (Russian) (*see* **89f:92003**)

Richetti, P. *see* **Arneodo, A.; et al., 89d:92089**

Ross, John *see* **Rehmus, Paul, (89f:92003)**

Rouvray, D. H. The fractal nature of alkane physicochemical behavior. (*see* **89b:92038**)

— Characterization of molecular branching using topological indices. **89k:92091**

— *see also* **Hanson, M. P., (89b:92038)** *and* **Graph theory and topology in chemistry, 89b:92038**

Roux, J. C. *see* **Arneodo, A.; et al., 89d:92089**

Rubinstein, Jacob (*with* Torquato, S.) Diffusion-controlled reactions: mathematical formulation, variational principles, and rigorous bounds. **89c:92106**

Safaryan, A. G. *see* **Almoyan, R. G.; et al., 89f:92074**

Sakamoto, Akio (*with* Kawakami, Hiroshi; Yoshikawa, Kenichi) A graph theoretical approach to complex reaction networks. **89k:92092**

Salov, V. V. (*with* Petrukhin, O. M.) Linear relations and distribution constants in the extraction. (Russian) (Not in MR)

Sana, Michel Chemins de réaction et forme locale de potentiel. (English summary) [Reaction pathway and local potential representation] **89k:92093**

Schmalz, T. G. *see* **Seitz, W. A.; et al., (89b:92038)**

Schmidt, L. D. *see* **McKarnin, M. A.; et al., 89d:92100**

Schmidt, Steven L. *see* **Ortoleva, P., (89f:92003)**

(Schrödinger, Erwin) *see* **Pauling, Linus, (89m:01069)**

Schuster, Heike *see* **Dress, Andreas; et al., 89m:92063**

Scott, A. C. Experimental evidence for biological solitons. (Russian summary) (*see* **89c:81005**)

Scott, J. M. W. *see* **Summers, Danny, 89i:92079**

Scott, Stephen K. *see* **Brindley, J.; et al., 89i:92073; Kay, S. R., 89i:92077** *and* **Gray, Peter, (89f:92003)**

Seitz, W. A. (*with* Hite, G. E.; Schmalz, T. G.; Klein, D. J.) Resonance in poly-polyphenanthrenes: a transfer matrix approach. (*see* **89b:92038**)

— *see also* **Randić, M.; et al., 89g:92088**

Sen, Asok K. On the time course of the reversible Michaelis-Menten reaction. **89i:92078**

Sen'ko, O. V. Use of a transformation of scales of attributes that characterize the conditions for carrying out experiments for the search for regularity. (Russian) **89f:92082**

Sergeev, Yu. V. ★ Моделирование взаимодействий биологических молекул. (Russian) [Modeling of the interactions of biological molecules] **89b:92036**

Shcherbakova, S. V. *see* **Kafarov, V. V.; et al., 89a:92085**

Shen, Mingzuo (*with* Sinanoğlu, Oktay) Ground-state multiplicities of organic di- and multiradicals. **89d:92101**

Sheng, Rong Qin Identification of the Kekulé structures of a hexagonal system. **89m:92066**

Shumikhin, A. G. *see* **Kafarov, V. V.; et al., 89a:92085**

Simon, Jonathan K. A topological approach to the stereochemistry of nonrigid molecules. **89m:92067**

— Molecular graphs as topological objects in space. **89c:92107**

Sinanoğlu, Oktay The new pictorial structural covariance method for qualitative quantum chemistry. II. Arenes with or without polyene side chains and polyene bridges. **89f:92083**

— The new pictorial structural covariance method for qualitative quantum chemistry. III. Fused polycyclics and their ions. **89f:92084**

— *see also* **Shen, Mingzuo, 89d:92101**

Sizuo, Yokota A proof of a neglected proof. **89h:92083**

Slanina, Zdeněk Chemical graphs enumeration and chemical reactivity: thermodynamic and kinetic considerations. **89c:92108**

Su, Lin Xian *see* **Cyvin, S. J.; et al., 89c:92097**

Summers, Danny (*with* Scott, J. M. W.) Systems of first-order chemical reactions. **89i:92079**

Sumners, De Witt L. Knots, macromolecules and chemical dynamics. **89g:92090**

Sysło, Maciej M. *see* **Galina, Henryk, 89c:92099**

Szymanski, K. *see* **Balaban, Alexandru T.; et al., 89d:92090**

Tai, Shu San *see* **Tang, Ao Qing; et al., 89d:92102**

Taneja, Inder Jeet (*with* Flemming, Diva Marilia) An algorithm for calculating the weighted capacity. **89i:92080**

Tang, Ao Qing (*with* Jiang, Yuan Sheng; Yan, Guo Sen; Tai, Shu San) ★ Graph theoretical molecular orbitals. **89d:92102**

Tomescu, Ioan *see* **Balaban, Alexandru T.; et al., 89e:92060** *and* **89f:92075**

Torquato, S. *see* **Rubinstein, Jacob, 89c:92106**

Tošić, Ratko *see* **Balaban, Alexandru T.; et al., 89d:92090**

Trinajstić, N. The characteristic polynomial of a chemical graph. **89k:92094**

— *see also* **Živković, Tomislav P., 89a:92087; Randić, M.; et al., 89c:92105** *and* **Balaban, Alexandru T.; et al., 89d:92090**

Tsai, Chun-Che (*with* Johnson, Mark Allyn; Nicholson, Victor; Naim, Mary) A topological approach to molecular similarity analysis and its application. (*see* **89b:92038**)

— *see also* **Johnson, Mark Allyn; et al., (89b:92038)**

Uchiyama, Atsuko *see* **Hosoya, Haruo; et al., 89d:92097**

Verzhbitskaya, I. S. (*with* Itskova, P. G.) Investigation of dynamic regimes of catalytic oxidation. (Russian) (*see* **89m:00007**)

Walba, David M. Topological stereochemistry: knot theory of molecular graphs. **89j:92100**

Wang, Xidi *see* **Lindenberg, Katja; et al., (89j:82002)**

Winfree, Arthur T. *see* **Nandapurkar, P. J., 89g:92087**

Woyczyński, W. A. *see* **Pittel, B.; et al., (89b:92038)**

Wu, Da Jin (*with* Cao, Li) Spatial structure for a quasi-three-dimensional Brusselator. (Chinese. English summary) **89h:92084**

Yamaguchi, Tamiē *see* **Hosoya, Haruo; et al., 89d:92097**

Yan, Guo Sen *see* **Tang, Ao Qing; et al., 89d:92102**

Yoshikawa, Kenichi Oscillatory phenomenon in chemistry development of temporal order in molecular assembly. **89i:92081**

— *see also* **Sakamoto, Akio; et al., 89k:92092**
Zatsepin, V. M. Representation of chemical compounds as distributions of physical properties on molecular structures. (Russian) **89k:92095**
Zhang, Fu Ji (*with* Chen, Rong Si; Guo, Xiao Feng) Perfect matchings in hexagonal systems. **89g:92091**
— (*with* Guo, Xiao Feng) Characterization of an invariant for benzenoid systems. **89a:92086**
— (*with* Guo, Xiao Feng; Chen, Rong Si) The connectivity of Z-transformation graphs of perfect matchings of hexagonal systems. **89i:92082**
— (*with* Guo, Xiao Feng) The necessary and sufficient conditions for benzenoid systems with small number of hexagons to have Kekulé patterns. **89m:92068**
Zhang, Yun Hu The enumeration problem for a class of hexagonal systems and its solution on a computer. (Chinese. English summary) **89m:92069**
Zheng, Mao Lin (*with* Chen, Rong Si) A maximal cover of hexagonal systems. **89f:92085**
Živković, Tomislav P. Ground state properties of conjugated systems in a simple bond orbital resonance theory (BORT). (*see* **89b:92038**)
— (*with* Trinajstić, N.) On the number of Kekulé structures of unbranched cata-condensed benzenoid chains. **89a:92087**
— Graphical representation of regular resonance structures and their linear dependence. **89c:92109**
Zumofen, G. (*with* Blumen, A.; Klafter, J.) Fractal patterns in chemistry. **89e:92067**

Items listed otherwise than by author

Applications of graphs in chemistry and physics ★ Applications of graphs in chemistry and physics. **89b:92037**
— ★ Applications of graphs in chemistry and physics. **89j:92101**
Athens, Ga. ★ Graph theory and topology in chemistry. **89b:92038**
Conference:
  Graph Theory and Topology in Chemistry ★ Graph theory and topology in chemistry. **89b:92038**
Graph theory and topology in chemistry ★ Graph theory and topology in chemistry. **89b:92038**
Special issue:
  Applications of graphs in chemistry and physics ★ Applications of graphs in chemistry and physics. **89b:92037**

Items with secondary classifications in 92A40

(Aeppli, Dorothee) *see* **Pólya, George, 89f:05013**
Agladze, K. I. (*with* Panfilov, A. V.; Rudenko, A. N.) Nonstationary rotation of spiral waves: three-dimensional effect. **89b:92010**
Anagnostatos, G. S. Magic numbers in small clusters of mixed rare gases. **89m:52018**
Authelin, Jean-René *see* **Villermaux, Jacques; et al., 89j:82086**
Baishya, M. C. (*with* Chakrabarti, C. G.) Stochastic linearization approach to some nonlinear processes. **89j:92020**
Balinska, Krystyna T. (*with* Quintas, Louis V.) Random graph models for physical systems. **89f:05145**
Baltin, R. Differential force law and related integral theorems for a system of N identical interacting particles. I. General geometries. **89j:81272**
— Differential force law and related integral theorems for a system of N identical interacting particles. II. Spherical symmetry. **89j:81273**
Bandemer, Hans (*with* Otto, Matthias) Methods to compare functions and some applications in analytical chemistry. (German and Russian summaries) **89d:03052**
Barkley, Dwight Slow manifolds and mixed-mode oscillations in the Belousov-Zhabotinskiĭ reaction. **89h:58137**
Bekenstein, Jacob D. Communication and energy. **89h:81061**
Berendsen, H. J. C. Biological molecules and membranes. **89k:92009**
Beumee, J. G. B. (*with* Rabitz, Herschel) On the use of filtering theory for the inversion of temporal chemical systems: mathematical formulation. **89e:93148**
Blumen, A. (*with* Zumofen, G.; Klafter, J.) Fractal concepts in reaction kinetics. **89g:80009**
Bonchev, Danail (*with* Mekenyan, Ovanes; Polansky, Oskar E.) Some relationships between the Wiener number and the number of self-returning walks in chemical graphs. **89i:05175**
Bonitz, M. *see* **Klimontovich, Yu. L., 89j:93002**
Brankov, Georgi ★ Квантова биомеханика. (Bulgarian) [Quantum biomechanics] **89m:92008**
Brechet, Y. (*with* Kirkaldy, J. S.) Contribution to the theory of diffusion-reaction controlled Liesegang patterns. **89k:80027**
Buckingham, A. D. Quantum chemistry. (*see* **89m:01069**)
(Burger, Mária) *see* **Oscillations and traveling waves in chemical systems, 89f:92003**
Caccetta, L. (*with* Vijayan, Kaipillil) Applications of graph theory. **89a:05124**
Cartianu, Dan ★ Synchronization phenomena in reaction-diffusion systems. **89j:92002**
Chakrabarti, C. G. *see* **Baishya, M. C., 89j:92020**
Chan, Hue Sun (*with* Dill, Ken A.) Intrachain loops in polymers: effects of excluded volume. **89k:82066**
Chen, Shi Zhong A mathematical description of primary structure sequences in DNA. (Chinese. English summary) **89k:92036**
Chopard, Bastien *see* **Droz, Michel, 89i:82114**
Cohen, Ruben D. Equilibrium state of aggregation in suspensions comprising linear clusters. **89f:82100**
Cvetković, Dragoš (*with* Doob, Michael; Gutman, I.; Torgašev, Aleksandar) ★ Recent results in the theory of graph spectra. **89d:05130**
Davydov, A. S. (*with* Ermakov, V. N.) Generation of solitons and bisolitons in molecular systems. **89k:81199**
De Dier, Bart (*with* Roose, Dirk) Determination of bifurcation points and catastrophes for the Brusselator model with two parameters. **89g:80010**
Di Cera, Enrico (*with* Gill, Stanley J.; Wyman, Jeffries) Canonical formulation of linkage thermodynamics. **89f:92012**
Dill, Ken A. *see* **Chan, Hue Sun, 89k:82066**
Dittrich, P. A stochastic model of a chemical reaction with diffusion. **89k:60156**
Dobrynin, A. A. Distance of molecular graphs of polycyclic joins. (Russian) **89f:05157**
— Graphs with coincident complete matrices of layers. (Russian) **89f:05152a**
— *see also* **Skorobogatov, V. A., 89f:05156**
Doob, Michael *see* **Cvetković, Dragoš; et al., 89d:05130**
Droz, Michel (*with* Chopard, Bastien) Nonequilibrium phase transitions and cellular automata. **89i:82114**
Eilbeck, J. C. (*with* Lomdahl, P. S.; Scott, A. C.) Biomolecular dynamics by computer analysis. **89e:92010**
Enting, I. G. *see* **Newsam, G. N., 89i:86015**
Ermakov, V. N. *see* **Davydov, A. S., 89k:81199**
(Fed′kina, V. R.) *see* **Oscillations and traveling waves in chemical systems, 89f:92003**
Fell, David A. *see* **Small, J. Rankin,** (Not in MR)
(Feyerabend, Paul) *see* **Primas, Hans, 89k:81004**
Fiedler, Bernold Global Hopf bifurcation in reaction diffusion systems with symmetry. **89b:35072**
(Field, Richard J.) *see* **Oscillations and traveling waves in chemical systems, 89f:92003**
Fife, P. C. (*with* Xiao, Ling) The generation and propagation of internal layers. **89c:35078**
Frisch, Harry L. *see* **Williams, G. O., 89j:82097**
Gill, Stanley J. *see* **Di Cera, Enrico; et al., 89f:92012**
Gomatam, Jagannathan (*with* Grindrod, Peter) Three-dimensional waves in excitable reaction-diffusion systems. **89c:35086**
— *see also* **Grindrod, Peter, 89c:92018**
Gray, B. F. (*with* Roberts, M. J.) Analysis of chemical kinetic systems over the entire parameter space. I. The Sal′nikov thermokinetic oscillator. **89h:58143**
— (*with* Roberts, M. J.) Analysis of chemical kinetic systems over the entire parameter space. II. Isothermal oscillators. **89h:58144**
Greller, Larry D. *see* **Samardzija, Nikola; et al., 89k:80026**
Grindrod, Peter (*with* Gomatam, Jagannathan) The geometry and motion of reaction-diffusion waves on closed two-dimensional manifolds. **89c:92018**
— *see also* **Gomatam, Jagannathan, 89c:35086**
Guo, Xiao Feng *see* **Zhang, Fu Ji, 89b:05145**
Gutman, I. On distances in some bipartite graphs. **89g:05099**
— *see also* **Cvetković, Dragoš; et al., 89d:05130**
Gutman, Semion (*with* Martin, Robert H., Jr.) Porous medium systems with slow and fast reactions. **89j:35068**
Haken, Hermann Pattern formation: thermodynamics or kinetics? (*see* **89g:92002**)
Horsthemke, Werner *see* **Pearson, John E., 89k:80028**
Hosoya, Haruo On some counting polynomials in chemistry. **89d:05006**
Hunding, Axel (*with* Sørensen, Preben Graae) Size adaptation of Turing prepatterns. **89k:92002**
Kawauchi, Akio Imitation of (3, 1)-dimensional manifold pairs. (Japanese) **89j:57003**
Keener, James P. (*with* Tyson, John J.) Spiral waves in the Belousov-Zhabotinskiĭ reaction. **89b:92017**
Kirkaldy, J. S. *see* **Brechet, Y., 89k:80027**
Klafter, J. *see* **Blumen, A.; et al., 89g:80009**
Klee, W. E. The topology of crystal structures: invariants. **89m:82063**
Klimontovich, Yu. L. (*with* Bonitz, M.) Definition of the degree of order in selforganization processes. (German summary) **89j:93002**
Klonowski, Włodzimierz Probabilistic-topological theory of systems with discrete interactions. I. System representation by a hypergraph. (French summary) **89k:82073**
— Probabilistic-topological theory of systems with discrete interactions. II. Calculation of the hypergraph probabilistic representation; the difference a posteriori algorithm. (French summary) **89k:82074**
Koller, Theodor *see* **Stasiak, Andrzej, 89m:92035**
Kopvillem, U. Kh. The set-theoretic structure of synergetics. (Russian) (*see* **89d:81002**)
(Kuhnert, Lothar) *see* **Self-organization of chemical structures, 89h:01110**
Li, Bo Fu (*with* Long, Xiang Yun; Sun, Jia Zhong) The irreducible tensor method and molecular structure. I. Operator algebras and the tensor decomposition of Hamilton operators. (Chinese) **89g:81109**
Lloyd, E. Keith Redfield enumeration applied to chemical problems. **89i:05148**
Lomdahl, P. S. *see* **Eilbeck, J. C.; et al., 89e:92010**
Long, Xiang Yun *see* **Li, Bo Fu; et al., 89g:81109**
Mal′kov, K. V. Stabilization of the solutions of a nonlinear integro-differential kinetic equation. (Russian) **89k:45010**
Mallion, R. B. *see* **O'Leary, Brian, 89i:05149**
Martin, Robert H., Jr. *see* **Gutman, Semion, 89j:35068**
Matkowsky, B. J. (*with* Nitzan, Abraham; Schuss, Z.) Does reaction path curvature play a role in the diffusion theory of multidimensional activated rate processes? **89c:80024**
Mekenyan, Ovanes *see* **Bonchev, Danail; et al., 89i:05175**
Meron, Ehud (*with* Pelcé, Pierre) Model for spiral wave formation in excitable media. **89b:92012**
Mikulecky, D. C. When is a mechanism not a mechanism? The network thermodynamic approach to complex systems. (*see* **89d:00007**)
Molchanov, S. A. *see* **Zel′dovich, Ya. B.; et al., 89b:82059**
Newsam, G. N. (*with* Enting, I. G.) Inverse problems in atmospheric constituent studies. I. Determination of surface sources under a diffusive transport approximation. **89i:86015**
(Niedersen, Uwe) *see* **Self-organization of chemical structures, 89h:01110**
Nitzan, Abraham *see* **Matkowsky, B. J.; et al., 89c:80024**
O'Leary, Brian (*with* Mallion, R. B.) Counting the spanning trees of labelled, planar molecular graphs embedded on the surface of a sphere. **89i:05149**
Otto, Matthias *see* **Bandemer, Hans, 89d:03052**
Panfilov, A. V. *see* **Agladze, K. I.; et al., 89b:92010**
Pao, C. V. Asymptotic behavior of solutions for the Belousov-Zhabotinskiĭ reaction diffusion system. **89k:35037**
Parrish, Rudolph S. (*with* Perdue, E. Michael) Computational methods for fitting statistical distribution models of multi-site binding equilibria. **89m:86001**
Pearson, John E. (*with* Horsthemke, Werner) Turing instabilities with nearly equal diffusion coefficients. **89k:80028**
Pelcé, Pierre *see* **Meron, Ehud, 89b:92012**
Perdue, E. Michael *see* **Parrish, Rudolph S., 89m:86001**
Perutz, M. F. Erwin Schrödinger's *What is life*? and molecular biology. (*see* **89m:01069**)
Peusner, L. An outline for a covariant theory of conservative kinetic forces. (*see* **89b:92038**)

Polansky, Oskar E. *see* **Bonchev, Danail; et al., 89i:05175**

Pollett, P. K. On the problem of evaluating quasistationary distributions for open reaction schemes. **89k:80025**

Pólya, George (*with* Read, R. C.) ★ Combinatorial enumeration of groups, graphs, and chemical compounds. **89f:05013**

Primas, Hans ★ Chemistry, quantum mechanics and reductionism. **89k:81004**

Pugh, S. *see* **Ross, John; et al., (89g:92002)**

Quintas, Louis V. *see* **Balinska, Krystyna T., 89f:05145**

Rabitz, Herschel *see* **Beumee, J. G. B., 89e:93148**

Read, R. C. *see* **Pólya, George, 89f:05013**

Roberts, M. J. *see* **Gray, B. F., 89h:58143** *and* **89h:58144**

Roose, Dirk *see* **De Dier, Bart, 89g:80010**

Ross, John (*with* Pugh, S.; Schell, Mark) Spectral kinetics and the efficiency of (bio)chemical reactions. (*see* **89g:92002**)

(Rovinskiĭ, A. B.) *see* **Oscillations and traveling waves in chemical systems, 89f:92003**

Rudenko, A. N. *see* **Agladze, K. I.; et al., 89b:92010**

Ruzmaĭkin, A. A. *see* **Zel'dovich, Ya. B.; et al., 89b:82059**

Samardzija, Nikola (*with* Greller, Larry D.; Wasserman, E.) Nonlinear chemical kinetic schemes derived from mechanical and electrical dynamical systems. **89k:80026**

Schell, Mark *see* **Ross, John; et al., (89g:92002)**

Schöffel, St. U. Nonlinear resonance phenomena for the Euler-equations coupled with chemical reaction-kinetics. (*see* **89j:35007**)

(Schrödinger, Erwin) *see* **Perutz, M. F., (89m:01069)**

Schuss, Z. *see* **Matkowsky, B. J.; et al., 89c:80024**

Schweich, Daniel *see* **Villermaux, Jacques; et al., 89j:82086**

Scott, A. C. Davydov's soliton. **89c:92032**

— *see also* **Eilbeck, J. C.; et al., 89e:92010**

Skorobogatov, V. A. (*with* Dobrynin, A. A.) The influence of structural transformations of a graph on the value of its distance. (Russian) **89f:05156**

Small, J. Rankin (*with* Fell, David A.) The matrix method of metabolic control analysis: its validity for complex pathway structures. (Not in MR)

Sokolov, D. D. *see* **Zel'dovich, Ya. B.; et al., 89b:82059**

Somorjai, R. L. *see* **Zuker, M., 89k:92004**

Sørensen, Preben Graae *see* **Hunding, Axel, 89k:92002**

Stankevich, M. I. (*with* Trach, S. S.; Zefirov, N. S.) Combinatorial models and algorithms in chemistry. Search for isomorphisms and automorphisms of molecular graphs. **89f:05096**

Stasiak, Andrzej (*with* Koller, Theodor) Analysis of DNA knots and catenanes allows to deduce the mechanism of action of enzymes which cut and join DNA strands. **89m:92035**

Sumners, De Witt L. (*with* Whittington, S. G.) Knots in self-avoiding walks. **89i:82060**

Sun, Jia Zhong *see* **Li, Bo Fu; et al., 89g:81109**

Sun, Zhen Qi *see* **Wang, Mu Qiu; et al., 89k:58223**

Tél, T. On the stationary distribution of self-sustained oscillators around bifurcation points. **89h:58150**

Torgašev, Aleksandar *see* **Cvetković, Dragoš; et al., 89d:05130**

Tóth, J. Structure of the state space in stochastic kinetics. **89k:60104**

Trach, S. S. *see* **Stankevich, M. I.; et al., 89f:05096**

Trifonov, E. N. Codes of nucleotide sequences. (*see* **89c:92002**)

Troy, William C. Mathematical analysis of the Oregonator model of the Belousov-Zhabotinskiĭ reaction. (Russian) (*see* **89f:92003**)

Tyson, John J. A quantitative account of oscillations, bistability, and traveling waves in the Belousov-Zhabotinskiĭ reaction. (Russian) (*see* **89f:92003**)

— *see also* **Keener, James P., 89b:92017**

Vijayan, Kaipillil *see* **Caccetta, L., 89a:05124**

Vila, Jorge Lattice gas with a weak long-range positive potential. **89b:82018**

Villermaux, Jacques (*with* Schweich, Daniel; Authelin, Jean-René) Le "peigne du diable", un modèle d'interface fractale bidimensionnelle. (English summary) [The "devil's comb", a model for a two-dimensional fractal interface] **89j:82086**

Wang, Lian *see* **Wang, Mu Qiu; et al., 89k:58223**

Wang, Ming Xin^2 *see* **Ye, Qi Xiao, 89e:80019**

Wang, Mu Qiu (*with* Wang, Lian; Sun, Zhen Qi) An explanatory note on the chemical reaction model of I. Prigogine and R. Lefever. (Chinese) **89k:58223**

Wang, Shingmin *see* **Wollkind, David J., 89a:80001** *and* **89j:80005**

Wasserman, E. *see* **Samardzija, Nikola; et al., 89k:80026**

Whitehead, Edward P. Symmetry in protein structure and function. (*see* **89m:00011**)

Whittington, S. G. *see* **Sumners, De Witt L., 89i:82060**

Williams, G. O. (*with* Frisch, Harry L.) Anomalous scaling in systems partially controlled by diffusion. **89j:82097**

Wollkind, David J. (*with* Wang, Shingmin) A nonlinear stability analysis of a model equation for liquid phase electro-epitaxial growth of a dilute binary substance. **89a:80001**

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Wyman, Jeffries *see* **Di Cera, Enrico; et al., 89f:92012**

Xiao, Ling *see* **Fife, P. C., 89c:35078**

Ye, Qi Xiao (*with* Wang, Ming Xin^2) Travelling wave front solutions of Noyes-Field system for Belousov-Zhabotinskiĭ reaction. **89e:80019**

Zefirov, N. S. *see* **Stankevich, M. I.; et al., 89f:05096**

Zel'dovich, Ya. B. (*with* Molchanov, S. A.; Ruzmaĭkin, A. A.; Sokolov, D. D.) Intermittency in random media. **89b:82059**

Zhabotinskiĭ, A. M. Introduction. The early period of systematic studies of oscillations and waves in chemical systems. (Russian) (*see* **89f:92003**)

— *see also* **Oscillations and traveling waves in chemical systems, 89f:92003**

Zhang, Fu Ji (*with* Guo, Xiao Feng) The classification of hexagonal systems by their Z-transformation graphs. (Chinese. English summary) **89b:05145**

— (*with* Zhou, Ming Kun) Matching polynomials of two classes of graphs. **89c:05068**

— (*with* Zhou, Ming Kun) Matching polynomials of two classes of graphs. (Chinese summary) **89i:05185**

Zhang, Zhi Nan An algorithm for obtaining the exact characteristic polynomial of integer matrices. (Chinese. English summary) **89i:15002**

Zhou, Ming Kun *see* **Zhang, Fu Ji, 89c:05068** *and* **89i:05185**

Zuker, M. (*with* Somorjai, R. L.) The alignment of protein structures in three dimensions. **89k:92004**

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Zwanzig, Robert Diffusion in a rough potential. **89d:82058**

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Oscillations and traveling waves in chemical systems ★ Колебания и бегущие волны в химических системах. (Russian) [Oscillations and traveling waves in chemical systems] **89f:92003**

Self-organization of chemical structures ★ Selbstorganisation chemischer Strukturen. (German) [Self-organization of chemical structures] **89h:01110**

92A90 Other applications

Bailar, Barbara A. Quality issues in measurement. (French summary) **89g:92092**

Brams, Steven J. (*with* Kilgour, D. Marc) National security games. (*see* **89e:90218**)

Brito, Dagobert L. *see* **Intriligator, Michael D., (89e:90218)**

Bueno de Mesquita, Bruce (*with* Lalman, David) Arms races and the opportunity for peace. (*see* **89e:90218**)

Chen, Ye-Sho Exponential recurrence distribution in the Simon-Yule model of text. **89m:92070**

Cioffi-Revilla, Claudio (*with* Dacey, Raymond) The probability of war in the *n*-crises problem: modeling new alternatives to Wright's solution. (*see* **89e:90218**)

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Davydov, V. A. (*with* Mikhaĭlov, A. S.) Spiral waves in distributed active media. (Russian) **89e:92068**

Guseĭn-Zade, S. M. On the frequency distribution of Russian letters. **89k:92096**

Harding, Rosalind M. (*with* Sokal, Robert R.) Classification of the European language families by genetic distance. (Not in MR)

Heijmans, H. J. A. M. Mathematical morphology: an algebraic approach. **89h:92085**

Intriligator, Michael D. (*with* Brito, Dagobert L.) A predator-prey model of guerrilla warfare. (*see* **89e:90218**)

Kilgour, D. Marc *see* **Brams, Steven J., (89e:90218)**

Lalman, David *see* **Bueno de Mesquita, Bruce, (89e:90218)**

Laxton, R. R. Some mathematical problems in seriation. **89c:92110**

Mikhaĭlov, A. S. *see* **Davydov, V. A., 89e:92068**

Muncaster, Robert G. *see* **Zinnes, Dina A., (89e:90218)**

Sokal, Robert R. *see* **Harding, Rosalind M., (Not in MR)**

Zinnes, Dina A. (*with* Muncaster, Robert G.) The war propensity of international systems. (*see* **89e:90218**)

Items with secondary classifications in 92A90

Barthélémy, Jean-Pierre (*with* Luong, Nhuan Xuan) Sur la topologie d'un arbre phylogénétique: aspects théoriques, algorithmes et applications à l'analyse de données textuelles. (English summary) [The topology of a phylogenetic tree: theoretical aspects, algorithms and applications to textual data analysis] **89c:92003**

Bartholomew, D. J. Probability, statistics and theology. **89e:62004**

Batchelder, William H. (*with* Romney, A. Kimball) Test theory without an answer key. **89e:62139**

Brams, Steven J. (*with* Kilgour, D. Marc) ★ Game theory and national security. **89e:90245**

Chemillier, Marc Monoïde libre et musique. I. Les musiciens ont-ils besoin des mathématiques? (English summary) [The free monoid and music. I. Do musicians need mathematics?] **89b:00045a**

— Monoïde libre et musique. II. (English summary) [The free monoid and music. II] **89b:00045b**

Cox, David Roxbee (*with* Isham, Valerie) A simple spatial-temporal model of rainfall. **89b:86004**

(Dacey, Raymond) *see* **Formal analysis in international relations, 89e:90218**

Detlovs, V. K. Harmony and the melodic line. (Russian. English summary) **89b:00043**

(Diekmann, Andreas) *see* **Paradoxical effects of social behavior, 89d:90019**

Filali, A. B. (*with* Walker, W. R.) System analysis of an irrigation main canal. (*see* **89g:76003b**)

Gorbachev, O. G. (*with* Natan, A. A.) Optimal sequential procedures for classification and selection of useful objects. **89j:90158**

Hirshleifer, Jack The analytics of continuing conflict. (*see* **89e:90218**)

Isham, Valerie *see* **Cox, David Roxbee, 89b:86004**

Kilgour, D. Marc *see* **Brams, Steven J., 89e:90245**

Lapan, Harvey E. *see* **Sandler, Todd, (89e:90218)**

Luong, Nhuan Xuan *see* **Barthélémy, Jean-Pierre, 89c:92003**

(Mitter, Peter) *see* **Paradoxical effects of social behavior, 89d:90019**

Natan, A. A. *see* **Gorbachev, O. G., 89j:90158**

Pilipenko, A. V. ★ Пропорции в науке. (Russian) [Proportions in science] **89h:90135**

(Pryazhinskaya, V. G.) *see* **Mathematical modeling in water resources management, 89d:90077**

(Rapoport, Anatol) *see* **Paradoxical effects of social behavior, 89d:90019**

Rastogi, P. N. Explanation, prediction, problem-solving and decision-making in social systems. **89f:90040**

Reznikova, Zh. I. (*with* Ryabko, B. Ya.) An experimental proof of the use of numerals in the language of ants. (Not in MR)

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Sandler, Todd (*with* Lapan, Harvey E.) The calculus of dissent: an analysis of terrorists' choice of targets. (*see* **89e:90218**)

Vandercammen, Marc Modélisation dynamique et création de systèmes. [Dynamical modelling and the creation of systems] (*see* **89a:94001**)

Walker, W. R. *see* **Filali, A. B., (89g:76003b)**

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Formal analysis in international relations ★ Formal analysis in international relations. **89e:90218**

Mathematical modeling in water resources management ★ Математическое моделирование в управлении водными ресурсами. (Russian) [Mathematical modeling in water resources management] **89d:90077**

Paradoxical effects of social behavior ★ Paradoxical effects of social behavior. **89d:90019**

93–XX Systems theory; control {For optimal control, see 49–XX.}

93–01 Elementary exposition; textbooks

Ahmed, N. U. ★ Elements of finite-dimensional systems and control theory. **89f:93001**

Böcker, J. (*with* Hartmann, I.; Zwanzig, Ch.) ★ Nichtlineare und adaptive Regelungssysteme. (German) [Nonlinear and adaptive control systems] **89h:93001**

Catlin, Donald E. ★ Estimation, control, and the discrete Kalman filter. **89k:93001**

Chen, Guan Rong *see* **Chui, C. K., 89m:93001**

Chui, C. K. (*with* Chen, Guan Rong) ★ Linear systems and optimal control. **89m:93001**

Hartmann, I. *see* **Böcker, J.; et al., 89h:93001**

(Kukhtenko, A. I.) *see* **Complex control systems, 89a:93001**

Kupka, I. A. K. ★ Introduction to the theory of systems. **89e:93001**

(O'Reilly, John) *see* **Multivariable control for industrial applications,** (Not in MR)

Voland, Gerard ★ Control systems modeling and analysis. **89b:93001**

Zwanzig, Ch. *see* **Böcker, J.; et al., 89h:93001**

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Complex control systems ★ Сложные системы управления. (Russian) [Complex control systems] **89a:93001**

Multivariable control for industrial applications ★ Multivariable control for industrial applications. (Not in MR)

Items with secondary classifications in 93–01

Alekseev, V. M. (*with* Tikhomirov, V. M.; Fomin, S. V.) ★ Optimal control. **89e:49002**

Brown, Reginald F. ★ Biomedical systems analysis via compartmental concept. **89a:92017**

Fomin, S. V. *see* **Alekseev, V. M.; et al., 89e:49002**

Norton, J. P. ★ An introduction to identification. **89e:93210**

(Rees, D.) *see* **Industrial digital control systems,** (Not in MR)

Schlittgen, Rainer (*with* Streitberg, B.) ★ Zeitreihenanalyse. (German) [Time series analysis] **89g:62153**

Streitberg, B. *see* **Schlittgen, Rainer, 89g:62153**

Tikhomirov, V. M. *see* **Alekseev, V. M.; et al., 89e:49002**

(Volosov, V. M.) *see* **Alekseev, V. M.; et al., 89e:49002**

(Warwick, Kevin) *see* **Industrial digital control systems,** (Not in MR)

Items listed otherwise than by author

Industrial digital control systems ★ Industrial digital control systems. (Not in MR)

93–02 Advanced exposition (research surveys, monographs, etc.)

Adomian, George A. ★ Стохастические системы. (Russian) [Stochastic systems] **89h:93002**

Bakule, Lubomír (*with* Lunze, J.) Decentralized design of feedback control for large-scale systems. **89k:93002**

(Bellman, Richard) *see* **Adomian, George A., 89h:93002**

Bensoussan, A. ★ Perturbation methods in optimal control. **89m:93002**

Curtain, R. F. L_∞-approximations of complex functions and robust controllers for large flexible space structures. **89i:93001**

El Jaï, A. (*with* Pritchard, A. J.) ★ Sensors and controls in the analysis of distributed systems. **89b:93002**

Francis, B. A. ★ A course in H_∞ control theory. **89i:93002**

— (*with* Tannenbaum, Allen) Generalized interpolation in control theory. **89k:93003**

Ivanenko, V. I. Some questions regarding indeterminacy and dynamics in control problems. **89i:93003**

Krotov, V. F. A technique of global bounds in optimal control theory. (Russian and Polish summaries) **89k:93004**

Lunze, J. *see* **Bakule, Lubomír, 89k:93002**

Marple, S. Lawrence, Jr. ★ Digital spectral analysis with applications. **89c:93001**

Mikhaĭlov, F. A. ★ Теория и методы исследования нестационарных линейных систем. (Russian) [Theory and methods for investigating nonstationary linear systems] **89g:93001**

Naidu, D. S. ★ Singular perturbation methodology in control systems. **89k:93005**

Pritchard, A. J. *see* **El Jaï, A., 89b:93002**

(Pritchard, Catrin) *see* **El Jaï, A., 89b:93002**

(Pritchard, Rhian) *see* **El Jaï, A., 89b:93002**

Pugachev, V. S. (*with* Sinitsyn, I. N.) ★ Stochastic differential systems. **89b:93003**

van der Schaft, A. J. On feedback control of Hamiltonian systems. **89h:93003**

Sinitsyn, I. N. *see* **Pugachev, V. S., 89b:93003**

(Sinitsyna, I. V.) *see* **Pugachev, V. S., 89b:93003**

Tannenbaum, Allen *see* **Francis, B. A., 89k:93003**

(Tomson, C.) *see* **Bensoussan, A., 89m:93002**

Tonev, M. I. *see* **Zapryanov, Ĭ. D.,** (Not in MR)

(Volkov, N. G.) *see* **Adomian, George A., 89h:93002**

Yuan, Zhen Dong An overview on robustness of adaptive control. (Chinese. English summary) (Not in MR)

Zapryanov, Ĭ. D. (*with* Tonev, M. I.) Robust automatic control systems. Design methods. (Bulgarian. English and Russian summaries) (Not in MR)

Zhao, Yi *see* **Zhou, Hong Xing, 89j:93001**

Zhou, Hong Xing (*with* Zhao, Yi) Controllability theory for nonlinear systems. (Chinese. English summary) **89j:93001**

Items with secondary classifications in 93–02

Ahmed, N. U. ★ Optimization and identification of systems governed by evolution equations on Banach space. **89m:93021**

Andrei, Neculai ★ Sparse systems. **89e:93007**

Byrnes, Christopher I. (*with* Martin, Clyde Franklin) Global observability and detectability: an overview. **89k:93021**

Dai, Guan Zhong *see* **Wang, Li Xin, 89g:93093**

Deistler, Manfred *see* **Hannan, E. J., 89m:60085**

Doležal, Jaroslav Optimal control discrete-time systems. (*see* **89f:00029**)

Eykhoff, P. A bird's-eye view on parameter and system identification. (Not in MR)

Feng, Chun Bo Theory and applications of adaptive control. (Chinese. English summary) (Not in MR)

Fleming, W. H. ★ Controlled Markov processes and viscosity solution of nonlinear evolution equations. **89e:93220**

Gladkov, D. I. *see* **Kazakov, I. E., 89g:93088**

Gurman, V. I. ★ Принцип расширения в задачах управления. (Russian) [The extension principle in control problems] **89m:49056**

Hannan, E. J. (*with* Deistler, Manfred) ★ The statistical theory of linear systems. **89m:60085**

Jamshidi, M. *see* **Malek-Zavarei, Manu, 89h:49001**

Kaipov, V. Kh. (*with* Kozhanova, E. V.) Application of the theory of fuzzy sets in control problems (a survey). (Russian) **89k:94113**

Kazakov, I. E. (*with* Gladkov, D. I.) ★ Методы оптимизации стохастических систем. (Russian) [Methods for optimization of stochastic systems] **89g:93088**

Kozhanova, E. V. *see* **Kaipov, V. Kh., 89k:94113**

Kozin, F. Structural parameter identification techniques. **89g:93102**

Lions, J.-L. ★ Contrôlabilité exacte, perturbations et stabilisation de systèmes distribués. Tome 2. (French) [Exact controllability, perturbations and stabilization of distributed systems. Vol. 2] **89k:93017**

Lions, Pierre-Louis (*with* Souganidis, P. E.) Viscosity solutions of second-order equations, stochastic control and stochastic differential games. **89e:49021**

Malek-Zavarei, Manu (*with* Jamshidi, M.) ★ Time-delay systems. **89h:49001**

Martin, Clyde Franklin *see* **Byrnes, Christopher I., 89k:93021**

(Negoita, Constantin V.) *see* **Andrei, Neculai, 89e:93007**

Roska, T. Qualitative theory and computational aspects of large scale dynamic nonlinear systems—a review and some open questions. (*see* **89c:93002**)

Solodov, A. A. *see* **Solodov, A. V., 89f:93038**

Solodov, A. V. (*with* Solodov, A. A.) ★ Статистическая динамика систем с точечными процессами. (Russian) [Statistical dynamics of systems with point processes] **89f:93038**

Souganidis, P. E. *see* **Lions, Pierre-Louis, 89e:49021**

Wang, Li Xin (*with* Dai, Guan Zhong) A survey of distributed estimation theories. (Chinese. English summary) **89g:93093**

93–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 93–03

Bennett, Stuart ★ A history of control engineering, 1800–1930. **89e:01027**

Ljung, Lennart Control theory 1984–1986. A progress report from IFAC's technical committee on theory. **89f:01056**

93–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 93–04

Blankenship, Gilmer L. (*with* LaVigna, A.; MacEnany, D. C.; Quadrat, J.-P.; Yan, I.) A MACSYMA/expert system for nonlinear filtering. **89j:93114**

LaVigna, A. *see* **Blankenship, Gilmer L.; et al., 89j:93114**

MacEnany, D. C. *see* **Blankenship, Gilmer L.; et al., 89j:93114**

Quadrat, J.-P. *see* **Blankenship, Gilmer L.; et al., 89j:93114**

Yan, I. *see* **Blankenship, Gilmer L.; et al., 89j:93114**

93–06 Proceedings, conferences, etc.

(Basharin, A. V.) *see* **Algorithms, software and hardware for flexible production systems, 89b:93004**

(Byrnes, Christopher I.) *see* **Modelling, identification and robust control, 89b:93008; Theory and applications of nonlinear control systems, 89b:93010** *and* **Modelling and adaptive control, 89c:93002**

(Denham, M. J.) *see* **Advanced computing concepts and techniques in control engineering, 89g:93002**

(Fleming, W. H.) *see* **Stochastic differential systems, stochastic control theory and applications, 89b:93009**

(Khalil, Hassan K.) *see* **Singular perturbations in systems and control, 89e:93002**

(Kokotović, P. V.) *see* **Singular perturbations in systems and control, 89e:93002**

(Kuntsevich, V. M.) *see* **Discrete control systems, 89f:93002**

(Kurzhanskiĭ, A. B.) *see* **Modelling and adaptive control, 89c:93002**

(Laub, Alan J.) *see* **Advanced computing concepts and techniques in control engineering, 89g:93002**

(Lindquist, Anders) *see* **Modelling, identification and robust control, 89b:93008** *and* **Theory and applications of nonlinear control systems, 89b:93010**
(Lions, Pierre-Louis) *see* **Stochastic differential systems, stochastic control theory and applications, 89b:93009**
(Neĭmark, Yu. I.) *see* **Dynamics of systems, 89b:93007**
(Schiehlen, W.) *see* **Analysis and estimation of stochastic mechanical systems, 89b:93005**
(Sovetov, B. Ya.) *see* **Algorithms, software and hardware for flexible production systems, 89b:93004**
(Wedig, W.) *see* **Analysis and estimation of stochastic mechanical systems, 89b:93005**
(Zolésio, J.-P.) *see* **Boundary control and boundary variations, 89b:93006**

Items listed otherwise than by author

Advanced computing concepts and techniques in control engineering ★ Advanced computing concepts and techniques in control engineering. **89g:93002**
Algorithms, software and hardware for flexible production systems ★ Алгоритмическое, программное и техническое обеспечение гибких производственных систем. (Russian) [Algorithms, software and hardware for flexible production systems] **89b:93004**
Analysis and estimation of stochastic mechanical systems ★ Analysis and estimation of stochastic mechanical systems. **89b:93005**
Boundary control and boundary variations ★ Boundary control and boundary variations. **89b:93006**
Bremen ★ Workshop on Parametrization Problems in Systems Theory. (Not in MR)
Conference:
  Linear and Nonlinear Mathematical Control Theory ★ Conference on linear and nonlinear mathematical control theory. **89a:93002**
  Modelling and Adaptive Control ★ Modelling and adaptive control. **89c:93002**
Congress:
  Cybernetics ★ 10ᵉ Congrès International de Cybernétique. [10th International Congress on Cybernetics] **89a:93003**
Discrete control systems ★ Дискретные системы управления. (Russian) [Discrete control systems] **89f:93002**
Dynamics of systems ★ Динамика систем. (Russian) [Dynamics of systems] **89b:93007**
IFIP Conference:
  Boundary Control and Boundary Variations ★ Boundary control and boundary variations. **89b:93006**
Il Ciocco ★ Advanced computing concepts and techniques in control engineering. **89g:93002**
Lecture Notes in Control and Information Sciences ★ Boundary control and boundary variations. **89b:93006**
— ★ Modelling and adaptive control. **89c:93002**
Minneapolis, Minn. ★ Stochastic differential systems, stochastic control theory and applications. **89b:93009**
Modelling and adaptive control ★ Modelling and adaptive control. **89c:93002**
Modelling, identification and robust control ★ Modelling, identification and robust control. **89b:93008**
Namur ★ 10ᵉ Congrès International de Cybernétique. [10th International Congress on Cybernetics] **89a:93003**
NATO Advanced Study Institute:
  Application of Advanced Computing Concepts and Techniques in Control Engineering ★ Advanced computing concepts and techniques in control engineering. **89g:93002**
Nice ★ Boundary control and boundary variations. **89b:93006**
Singular perturbations in systems and control ★ Singular perturbations in systems and control. **89e:93002**
Sopron ★ Modelling and adaptive control. **89c:93002**
Stochastic differential systems, stochastic control theory and applications ★ Stochastic differential systems, stochastic control theory and applications. **89b:93009**
Stockholm ★ Modelling, identification and robust control. **89b:93008**
— ★ Theory and applications of nonlinear control systems. **89b:93010**
Symposium:
  Mathematical Theory of Networks and Systems ★ Modelling, identification and robust control. **89b:93008**
  — ★ Theory and applications of nonlinear control systems. **89b:93010**
Theory and applications of nonlinear control systems ★ Theory and applications of nonlinear control systems. **89b:93010**
Udine ★ Analysis and estimation of stochastic mechanical systems. **89b:93005**
Workshop:
  Parametrization Problems in Systems Theory ★ Workshop on Parametrization Problems in Systems Theory. (Not in MR)
  Stochastic differential systems, stochastic control theory and applications ★ Stochastic differential systems, stochastic control theory and applications. **89b:93009**

Items with secondary classifications in 93–06

(Abbiss, J. B.) *see* **Mathematics in signal processing, 89b:94004**
(Bensoussan, A.) *see* **Analysis and optimization of systems, 89c:00031**
(Bermúdez de Castro, Alfredo) *see* **Control of partial differential equations, 89j:00028**
(Durrani, T. S.) *see* **Mathematics in signal processing, 89b:94004**
(Hudson, J. E.) *see* **Mathematics in signal processing, 89b:94004**
(Korotkiĭ, A. I.) *see* **Some methods for positional and programmed control, 89c:49001**
(Lions, J.-L.) *see* **Analysis and optimization of systems, 89c:00031**
(Madan, R. N.) *see* **Mathematics in signal processing, 89b:94004**
(Maksimov, V. I.) *see* **Some methods for positional and programmed control, 89c:49001**
(McWhirter, J. G.) *see* **Mathematics in signal processing, 89b:94004**
(Moore, T. A.) *see* **Mathematics in signal processing, 89b:94004**
(Shevlyakov, Yu. A.) *see* **Dynamical systems, 89c:00012**
(Skurikhin, V. I.) *see* **Models for and realization of prospective devices for automatic control systems, 89j:90001a**

Items listed otherwise than by author

Analysis and optimization of systems ★ Analysis and optimization of systems. **89c:00031**
Antibes ★ Analysis and optimization of systems. **89c:00031**
Bath ★ Mathematics in signal processing. **89b:94004**
Conference:
  Analysis and Optimization of Systems ★ Analysis and optimization of systems. **89c:00031**
  Mathematics in signal processing ★ Mathematics in signal processing. **89b:94004**
Control of partial differential equations ★ Control of partial differential equations. **89j:00028**
Dynamical systems ★ Динамические системы. Вып. 7. (Russian) [Dynamic systems. No. 7] **89c:00012**
IFIP Conference:
  Optimal Control of Systems Governed by Partial Differential Equations ★ Control of partial differential equations. **89j:00028**
Lecture Notes in Control and Information Sciences ★ Analysis and optimization of systems. **89c:00031**
— ★ Control of partial differential equations. **89j:00028**
Mathematics in signal processing ★ Mathematics in signal processing. **89b:94004**
Models for and realization of prospective devices for automatic control systems ★ Модели и реализация перспективных элементов АСУ. (Russian) [Models for and realization of prospective devices for automatic control systems] **89j:90001a**
Santiago de Compostela ★ Control of partial differential equations. **89j:00028**
Some methods for positional and programmed control ★ Некоторые методы позиционного и программного управления. (Russian) [Some methods for positional and programmed control] **89c:49001**

93Axx General

93A05 Axiomatic system theory

Lin, Yi^3 Periodic linked time systems. **89e:93003**

Items with secondary classifications in 93A05

Artem′ev, Yu. I. *see* **Tyukhtin, V. S.; et al., 89f:00045**
Dalin, V. Ya. *see* **Tyukhtin, V. S.; et al., 89f:00045**
Didyk, Yu. K. *see* **Tyukhtin, V. S.; et al., 89f:00045**
Ehresmann, A. C. (*with* Vanbremeersch, J.-P.) Hierarchical evolutive systems: a mathematical model for complex systems. **89a:18002**
Eytan, Michel Fibration et relateurs arithmétiques. [Fibration and arithmetical relators] **89e:18018**
Koptsik, V. A. *see* **Tyukhtin, V. S.; et al., 89f:00045**
Larin, Yu. S. *see* **Tyukhtin, V. S.; et al., 89f:00045**
Lin, Yi^3 (*with* Ma, Yonghao) Remarks on analogy between systems. **89h:93004**
— *see also* **Ma, Yonghao, 89b:93012**
Ma, Yonghao (*with* Lin, Yi^3) Some properties of linked time systems. **89b:93012**
— *see also* **Lin, Yi^3, 89h:93004**
Malikov, A. V. *see* **Tyukhtin, V. S.; et al., 89f:00045**
Petukhov, S. V. *see* **Tyukhtin, V. S.; et al., 89f:00045**
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Urmantsev, Yu. A. *see* **Tyukhtin, V. S.; et al., 89f:00045**
Vanbremeersch, J.-P. *see* **Ehresmann, A. C., 89a:18002**
Zamorzaev, A. M. *see* **Tyukhtin, V. S.; et al., 89f:00045**

93A10 General systems

Atmanspacher, H. (*with* Scheingraber, H.) A fundamental link between system theory and statistical mechanics. **89a:93004**
Bacciotti, Andrea (*with* Kalouptsidis, N.; Tsinias, J.) Topological dynamics of control systems. **89k:93006**
Boldur-Lătescu, G. The complex prospect for the problem of cybernetic-economic systems control. (Not in MR)
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Casti, J. Engineering control systems and computing in the 90s. **89e:93004**
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Cobb, J. Daniel Fundamental properties of the manifold of singular and regular linear systems. **89d:93001**
Gal′perin, I. I. (*with* Chenykaev, D. M.) Dynamical systems of automation. (Russian) (*see* **89i:00023**)
Hofacker, G. L. (*with* Levine, R. D.) The evolution of complex systems. **89b:93011**
Ionova, I. V. (*with* Smirnova, T. G.) ★ Некоторые задачи приближенного агрегирования. (Russian) [Some problems of approximate aggregation] **89e:93005**
Ivakhnenko, A. G. Methods for obtaining unimodal characteristics with location of the minimum in the region of complex models. (Not in MR)
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Mochalov, V. I. (*with* Neklyudov, P. A.; Nazaretov, V. M.) Application of dynamic bipartite network structures for the simulation of discrete-continuous production systems. (Russian) (Not in MR)

Moulin, Thiébaut Autoréférence et niveaux d'organisation. [Self-reference and levels of organization] (*see* **89a:93003**)
Muchnik, I. B. (*with* Shvartser, L. V.) Submodular set functions and monotone systems in aggregation problems. I. (Russian. English summary) **89a:93005**
— (*with* Shvartser, L. V.) Submodular set functions and monotone systems in aggregation problems. II. (Russian. English summary) **89a:93006**
Nazaretov, V. M. *see* **Mochalov, V. I.; et al.**, (Not in MR)
Neklyudov, P. A. *see* **Mochalov, V. I.; et al.**, (Not in MR)
Nieuwenhuis, J. W. (*with* Willems, J. C.) Continuity of dynamical systems: a system theoretic approach. **89c:93003**
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Pelczar, Andrzej Limit sets in generalized semisystems. **89b:93014**
Pezlar, Zdeněk An approach to the mathematical formalization of the concept of a system. (Czech. English and Russian summaries) **89a:93007**
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Ramadge, P. J. *see* **Wonham, W. M.**, **89e:93006**
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Scheingraber, H. *see* **Atmanspacher, H.**, **89a:93004**
Shvartser, L. V. *see* **Muchnik, I. B.**, **89a:93005** *and* **89a:93006**
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Solodovnikov, V. V. (*with* Tumarkin, V. I.) Theory of complexity, systems design and computer-aided design. (Russian) **89h:93005**
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Tsinias, J. *see* **Bacciotti, Andrea; et al.**, **89k:93006**
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Akhmetzyanov, A. V. *see* **Meerov, M. V.; et al.**, (Not in MR)
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Boguslavskaya, È. I. (*with* Kolomiets, M. D.) An approach to the modeling of complex dynamical systems. (Russian) **89c:93035**
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Casti, J. *see* **Andersson, Å. E.; et al.**, **89j:92001**
Chastang, Jean *see* **Vallet, Claude; et al.**, (**89a:93003**)
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Guo, Yu Qing *see* **Yu, Kai**, **89j:90138**
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93A13 Hierarchical systems

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Assimakopoulos, Nikitas Distributed decision making in cybernetic systems. (Not in MR)
Binder, Z. *see* **Noyer, P.**, **89j:93003**
Calvet, J. L. (*with* Titli, A.) Hierarchical optimization with overlapping systems—application to an electric power network. **89a:93008**
Chang, Shi Chung (*with* Chang, Tsu Shuan; Luh, Peter B.) A hierarchical decomposition for large-scale optimal control problems with parallel processing structure. **89k:93009**
Chang, Tsu Shuan *see* **Chang, Shi Chung; et al.**, **89k:93009**
Chen, Zhi Xin (*with* Li, Ren Hou) An algorithm for hierarchical control of large scale dynamic systems and its implementation. (Chinese. English summary) (Not in MR)
Gao, Wei Bing *see* **Shi, Zhi Cheng**, **89d:93004**
Grushko, A. N. A game-theoretic method for constructing an optimal hierarchical structure. (Russian) **89i:93004**
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Leonov, V. Yu. (*with* Tsurkov, V. I.) Hierarchical systems with distributed parameters and cross-links. **89m:93003**
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Shi, Zhi Cheng (*with* Gao, Wei Bing) Dynamic hierarchical control for large-scale systems. (Chinese. English summary) **89d:93004**
Titli, A. *see* **Calvet, J. L.**, **89a:93008**
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Items with secondary classifications in 93A13

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Arzola Ruiz, José A new approach to the problem of the coordination of direction in discrete hierarchical systems. (Spanish. English summary) **89i:92064**
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Brdyś, M. *see* **Coulbeck, B.; et al.**, (Not in MR)
Breton, M. (*with* Alj, A.; Haurie, A.) Sequential Stackelberg equilibria in two-person games. **89j:90278**
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Calvet, J. L. *see* **Sultan, M. A.; et al.**, **89b:49050**
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Hassan, M. F. *see* **Sultan, M. A.; et al., 89b:49050**
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Kleĭmenov, A. F. Investigation of a hierarchical three-level differential game. (Russian) **89a:90188**
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Rance, J. P. *see* **Coulbeck, B.; et al.**, (Not in MR)
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Shiryaev, V. D. *see* **Petrosyan, L. A., 89b:90255**
Sultan, M. A. (*with* Hassan, M. F.; Calvet, J. L.) Parameter estimation in large-scale systems using sequential decomposition. **89b:49050**
Tsoneva, Rainitchka G. *see* **Popchev, Ivan P., 89m:93071**
Uhrynowski, Zygmunt *see* **Petriczek, Grażyna**, (Not in MR)
Vanbremeersch, J.-P. *see* **Ehresmann, A. C., 89a:18002**
Van Cutsem, Th. *see* **Rousseaux, P.; et al.**, (Not in MR)
Vidal, Pierre *see* **Gille, Jean-Charles; et al., 89e:92028**
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Vyazgin, V. A. A hierarchical scheme for designing dynamical systems. (Not in MR)
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Węgrzyn, Stefan *see* **Gille, Jean-Charles; et al., 89e:92028**
Wonham, W. M. A control theory for discrete-event systems. **89j:93065**
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93A15 Large scale systems

Adilov, G. R. The aggregatability of large systems. (Russian. English and Azerbaijani summaries) **89h:93007**
Andrei, Neculai ★ Sparse systems. **89e:93007**
Artyushin, L. M. (*with* Pavlov, V. V.; Romashevskiĭ, A. I.) Control of coordinated motion of complex mechanical systems. (Not in MR)
Avalishvili, N. M. *see* **Gabisoniya, V. E.**, (Not in MR)
Bernussou, J. *see* **Geromel, J. C., 89c:93007**
Blatník, J. *see* **Sladký, K., 89h:93008**
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Brameller, A. *see* **Yang, Tai Cheng; et al.**, (Not in MR)
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Davison, E. J. *see* **Vaz, A. F., 89i:93006**
(Dib, H. M.) *see* **Shieh, L. S., 89d:93008**
Engelmann, B. (*with* Tatjewski, P.) Large-scale system optimization using the augmented interaction balance method. (Not in MR)
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Groumpos, P. P. (*with* Leros, A. P.) A structural approach to the modelling and control problem of large scale systems. **89d:93006**
Han, Zheng Zhi (*with* Zheng, Yu Fan) An economical control strategy for decentralized systems. (Chinese. English summary) (Not in MR)
— *see also* **Zheng, Yu Fan, 89b:93018**
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Hendawy, Z. M. *see* **Lin, Jie; et al.**, (Not in MR)
Hu, Shi Cai (*with* Zang, Jun) The disturbance decoupling problem in decentralized linear multivariable systems by local dynamic feedback. **89e:93008**
Iwazumi, Tetsuo *see* **Kando, Hisashi; et al., 89k:93012**
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Korov'yakov, A. N. *see* **Grigor'ev, V. V., 89m:93004**
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Larsen, P. Martin (*with* Evans, F. J.) Structural design of decentralized control systems. (*see* **89g:93002**)
Leros, A. P. *see* **Groumpos, P. P., 89d:93006**
Lin, Jie (*with* Hendawy, Z. M.; Roberts, P. D.) New model-based double-loop iterative strategy for integrated system optimization and parameter estimation of large-scale industrial processes. (Not in MR)
Lu, Hung Ching *see* **Ch'ên, Po Hsien, 89f:93004**
Lü, Shao Ming *see* **Wang, Mu Qiu; et al.**, (Not in MR)
Lü, Yong Zai *see* **Zheng, Jian De, 89m:93006**
Lunze, J. Exact and approximate models of symmetric composite systems. **89d:93007**
Munro, N. *see* **Yang, Tai Cheng; et al.**, (Not in MR)
Murota, Kazuo ★ Systems analysis by graphs and matroids. **89b:93017**
(Negoita, Constantin V.) *see* **Andrei, Neculai, 89e:93007**
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Pavlov, V. V. *see* **Artyushin, L. M.; et al.**, (Not in MR)
Pervozvanskiĭ, Anatoli A. *see* **Gaĭtsgori, V. G.**, (Not in MR)
Roberts, P. D. *see* **Lin, Jie; et al.**, (Not in MR)
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Satyanarayana, P. S. (*with* Chidambara, M. R.) Sub-optimal control via lower order generalized aggregated models. (Not in MR)
Shahian, B. Decentralized control using observers. **89k:93013**
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Shi, Zhi Cheng (*with* Gao, Wei Bing) Decentralized control for linear time-varying systems. **89m:93005**
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Tatjewski, P. *see* **Engelmann, B.**, (Not in MR)
Ukai, Hiroyuki *see* **Kando, Hisashi; et al., 89k:93012**
Vaz, A. F. (*with* Davison, E. J.) The decentralized control expanding system problem. **89i:93006**
Wang, Lian *see* **Wang, Mu Qiu; et al.**, (Not in MR)
Wang, Mu Qiu (*with* Wang, Lian; Lü, Shao Ming) On existence of periodic solutions for large-scale systems. (Chinese) (Not in MR)
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Wang, Wen June (*with* Ch'ên, Po Hsien) Stability of large-scale systems with saturating actuators. **89e:93010**
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Yang, Tai Cheng (*with* Munro, N.; Brameller, A.) Improved condition for the optimality of decentralised control for large-scale systems. (Not in MR)
Yasuda, Kazunori Decentralized optimal control for large-scale interconnected systems. **89e:93011**
Yates, R. E. *see* **Shieh, L. S., 89d:93008**
Yi, Yun Wen (*with* Zhang, Lu) An approach of the grey system modelling and simulation for complex system. (*see* **89g:00018**)
Zang, Jun *see* **Hu, Shi Cai, 89e:93008**
Zeng, Zhao Pan Estimate of asymptotic stability region of large-scale systems. (Russian summary) **89d:93009**
Zhang, Lu *see* **Yi, Yun Wen, (89g:00018)**
Zhang, Yu Lin (*with* Gao, Jin Chang; Zhou, Chun Hui) Static decoupling of interconnected systems. **89e:93012**
Zheng, Jian De (*with* Lü, Yong Zai) Novel aggregation algorithm for large-scale systems control. **89m:93006**
Zheng, Yu Fan (*with* Han, Zheng Zhi) Description of properties of decentralized systems by (A, B)-characteristic subspace. **89b:93018**
— *see also* **Han, Zheng Zhi**, (Not in MR)
Zhou, Chun Hui *see* **Zhang, Yu Lin; et al., 89e:93012** *and* **Tarokh, M.**, (Not in MR)

Items with secondary classifications in 93A15

Ahson, S. I. *see* **Prasad, R.; et al., 89j:93012**
Bakule, Lubomír (*with* Lunze, J.) Decentralized design of feedback control for large-scale systems. **89k:93002**
Bayard, David S. (*with* Hadaegh, F. Y.; Meldrum, D. R.) Optimal experiment design for identification of large space structures. **89d:93035**
Bernstein, Dennis S. (*with* Hyland, D. C.) Optimal projection equations for reduced-order modelling, estimation, and control of linear systems with multiplicative white noise. **89j:93104**
Bertoni, G. *see* **Penati, M. E.; et al., 89f:93016**
Bien, Zeungnam *see* **Choi, Y. K.**, (Not in MR)
Binder, Z. *see* **Noyer, P., 89j:93003**
Brucoli, Michele (*with* La Scala, Massimo; Torelli, Francesco; Trovato, Michele) Overlapping decomposition for small disturbance stability analysis of interconnected power networks. (Not in MR)
Cain, Marianne R. *see* **Wagner, Neal R.; et al., 89b:94026**
Calvet, J. L. (*with* Titli, A.) Hierarchical optimization with overlapping systems—application to an electric power network. **89a:93008**
Chen, Ye-Hwa Decentralized robust control system design for large-scale uncertain systems. (Not in MR)
Choi, Y. K. (*with* Bien, Zeungnam) Decentralized adaptive control scheme for control of a multi-arm-type robot. (Not in MR)
Cui, Xue Wei *see* **Wang, Mu Qiu; et al., 89m:39008**
Darwish, M. G. (*with* Soliman, Hisham M.) Design of decentralized reliable controllers for large-scale systems. (Not in MR)
Davison, E. J. *see* **Vaz, A. F., 89b:93064**
Deng, An-Chang On network partitioning algorithm of large-scale CMOS circuits. (Not in MR)
Engell, Sebastian (*with* Konik, Dieter) Decoupling techniques for decentralized control systems design. **89e:93088**
Evangelatos, D. S. (*with* Nicholson, H.) Reachability matrix and relation to large-scale systems. **89g:93024**
Farrell, J. A. *see* **Michel, A. N.; et al., 89k:93188**
Fergola, P. (*with* Tenneriello, C.) Partial stability of large scale systems via comparison method. **89h:93047**
Fuchs, Andreas (*with* Mukundan, Rangaswamy) Design of variable structure system controllers for large-scale multivariable systems using eigenvalue placement. **89i:93059**
Gao, Wei Bing *see* **Shi, Zhi Cheng**, (Not in MR)
Goodwin, Graham C. *see* **Hill, David J.; et al., 89m:93048**
Hadaegh, F. Y. *see* **Bayard, David S.; et al., 89d:93035**
Han, Zheng Zhi The consistent condition of disturbance decoupling of decentralized control. (Chinese summary) **89j:93024**
Hasiewicz, Zygmunt Jerzy Two-stage procedure for parameter estimation in large-scale interconnected linear zero-memory systems. **89b:93048**
Hassan, M. F. New multi-level algorithm for linear dynamical systems. **89k:93010**
Hayakawa, Yoshikazu (*with* Šiljak, Dragoslav D.) On almost invariant subspaces of structured systems and decentralized control. **89k:93166**
Hill, David J. (*with* Wen, Changyun; Goodwin, Graham C.) Stability analysis of decentralised robust adaptive control. **89m:93048**
Hu, Bao Sheng *see* **Wu, Nai Qi; et al., 89j:93095**
Hyland, D. C. *see* **Bernstein, Dennis S., 89j:93104**
Ikeda, Masao *see* **Ohta, Yuzo; et al., 89m:92050**
Ioannou, P. A. *see* **Reed, John S.**, (Not in MR)
Kamoun, M. (*with* Titli, A.) Implicit self-tuning control for a class of large-scale systems. **89k:93131**
Kaszkurewicz, E. (*with* Resende, P.) On the absolute stability of linearly interconnected nonlinear systems. **89b:93080**
Konik, Dieter *see* **Engell, Sebastian, 89e:93088**
La Scala, Massimo *see* **Brucoli, Michele; et al.**, (Not in MR)
Lee, T. N. (*with* Radovic, U. L.) Decentralized stabilization of linear continuous and discrete-time systems with delays in interconnections. **89k:93171**
— (*with* Radovic, U. L.) Decentralized stabilization of nonlinear continuous time delay systems. **89k:34131**
Li, Ren Hou *see* **Wu, Nai Qi; et al., 89j:93095**
Li, Tsu T'ien *see* **Wang, Wen June, 89f:34076**
Liao, Fu Cheng The stability of solutions for a class of complex systems with variable coefficients. (Chinese. English summary) (Not in MR)
Lin, Jian Nan (*with* Lü, Yong Zai) Decomposition algorithm of dynamic programming for large-scale time-delay systems. **89h:49027**
Lü, Yong Zai *see* **Lin, Jian Nan, 89h:49027**
Lucidi, S. A new result in the theory and computation of the least-norm solution of a linear program. **89d:90132**
Lunze, J. *see* **Bakule, Lubomír, 89k:93002**
Mahalanabis, A. K. *see* **Prasad, R.; et al., 89j:93012**
Medanic, J. (*with* Uskokovic, Zdravko) Design of coupled decentralized output regulators. **89e:93098**
Meldrum, D. R. *see* **Bayard, David S.; et al., 89d:93035**
Michel, A. N. (*with* Farrell, J. A.; Porod, W.) Qualitative analysis of neural networks. **89k:93188**
Mukundan, Rangaswamy *see* **Fuchs, Andreas, 89i:93059**
Naidu, D. S. ★ Singular perturbation methodology in control systems. **89k:93005**
Nicholson, H. *see* **Evangelatos, D. S., 89g:93024**
Niu, Xiao Ming (*with* Niu, Xuan; Zhang, Zhong Jun) Decentralized stabilization of nonlinear large-scale system with singular perturbations. **89k:93173**
Niu, Xuan *see* **Niu, Xiao Ming; et al., 89k:93173**
Noyer, P. (*with* Binder, Z.) An augmented Lagrangian tracking method in hierarchical optimization. **89j:93003**
Ohta, Yuzo (*with* Ikeda, Masao; Šiljak, Dragoslav D.) Parametric stability of model ecosystems. **89m:92050**
Paraskevopoulos, P. N. Techniques in model reduction for large-scale systems. **89h:49028**
Penati, M. E. (*with* Tibaldi, M.; Bertoni, G.) Reduced order regulators for large scale systems: a numerical implementation for stochastic and deterministic systems. **89f:93016**
Pippig, Eberhard A two-level algorithm for calculating the optimal steady state of dynamic complex systems. (Russian and Polish summaries) **89m:49051**
Popchev, Ivan P. (*with* Savov, S.) An approach to the decentralized stabilization of linear continuous-time large scale systems. **89j:93091**
— Synthesis of a stabilizing decentralized control for linear large scale systems. (Not in MR)
— (*with* Tsoneva, Rainitchka G.) Convergence study of a decomposition method for optimal control of large-scale time-delayed interconnected systems. (Russian summary) **89h:49029**
Popp, K. (*with* Socha, L.; Windrich, H.) Moment stability of linear stochastic nontriangular large-scale systems. **89b:93095**
Porod, W. *see* **Michel, A. N.; et al., 89k:93188**
Prasad, R. (*with* Ahson, S. I.; Mahalanabis, A. K.) Decentralized observer for interconnected systems. **89j:93012**
Putter, Paul S. *see* **Wagner, Neal R.; et al., 89b:94026**
Radovic, U. L. *see* **Lee, T. N., 89k:34131** *and* **89k:93171**
Reed, John S. (*with* Ioannou, P. A.) Discrete-time decentralized adaptive control. (Not in MR)
Resende, P. *see* **Kaszkurewicz, E., 89b:93080**
Savov, S. *see* **Popchev, Ivan P., 89j:93091**
Shi, Zhi Cheng (*with* Gao, Wei Bing) On decentralized stabilization of large-scale interconnected systems. (Not in MR)
Šiljak, Dragoslav D. *see* **Hayakawa, Yoshikazu, 89k:93166** *and* **Ohta, Yuzo; et al., 89m:92050**
Socha, L. *see* **Popp, K.; et al., 89b:93095**
Soliman, Hisham M. *see* **Darwish, M. G.**, (Not in MR)
Spathopoulos, M. P. A two-level parameter estimation algorithm for large-scale systems. **89d:93096**
Teng, Zhi Dong The use of Lyapunov functions with separated variables in the investigation of the stability of time-varying large-scale systems. (Chinese. English summary) **89h:93042**
Tenneriello, C. *see* **Fergola, P., 89h:93047**
Tian, Xiu Gong Lyapunov functions for partial stability and the partial stability of large-scale systems. (Chinese. English summary) (Not in MR)
Tibaldi, M. *see* **Penati, M. E.; et al., 89f:93016**
Titli, A. *see* **Calvet, J. L., 89a:93008** *and* **Kamoun, M., 89k:93131**
Tonev, M. I. *see* **Zapryanov, Ĭ. D.**, (Not in MR)
Torelli, Francesco *see* **Brucoli, Michele; et al.**, (Not in MR)
Trovato, Michele *see* **Brucoli, Michele; et al.**, (Not in MR)
Tsoneva, Rainitchka G. *see* **Popchev, Ivan P., 89h:49029**
Tzafestas, Spyros G. *see* **Watanabe, Keigo, 89g:93104**
Uskokovic, Zdravko *see* **Medanic, J., 89e:93098**
Vaz, A. F. (*with* Davison, E. J.) A measure for the decentralized assignability of eigenvalues. **89b:93064**
Vukčević, M. B. On decentralized hierarchic stabilization of a large-scale system with constraints. **89c:93056**
Wagner, Neal R. (*with* Putter, Paul S.; Cain, Marianne R.) Large-scale randomization techniques. **89b:94026**
Wang, Lian *see* **Wang, Mu Qiu; et al., 89m:39008**
Wang, Mu Qiu (*with* Wang, Lian; Cui, Xue Wei) The existence of periodic solutions of large-scale discrete systems under structural perturbations. (Chinese. English summary) **89m:39008**
Wang, Wen June (*with* Li, Tsu T'ien) Robust stability criteria for single- and large-scale perturbed systems. **89f:34076**
Watanabe, Keigo (*with* Tzafestas, Spyros G.) Discrete-time forward-pass smoothers in distributed-sensor networks. **89g:93104**
Wen, Changyun *see* **Hill, David J.; et al., 89m:93048**
Willems, Jacques L. Time-varying feedback for the stabilization of fixed modes in decentralized control systems. **89k:93110**
Windrich, H. *see* **Popp, K.; et al., 89b:93095**
Wu, Nai Qi (*with* Li, Ren Hou; Hu, Bao Sheng) Decentralized stabilization using local state feedback. (Chinese. English summary) **89j:93095**
Wu, Zhi Ming *see* **Xu, Xiao Ming**, (Not in MR)
Xi, Yu Geng *see* **Xu, Xiao Ming, 89k:93098**
Xie, Sheng Li The stability of large-scale dynamic systems of neutral type. **89j:93097**
Xu, Xiao Ming (*with* Wu, Zhi Ming) A frequency domain method for decentralized stabilization of large scale systems. (Chinese. English summary) (Not in MR)
— (*with* Xi, Yu Geng) The synthesis of decentralized control systems with the most economical information structure. (Chinese. English summary) **89k:93098**
Ye, Da Wei Partial stability of large-scale systems. **89b:34119**
Yong, Jiong Min Stabilization of nonlinear large-scale uncertain dynamical systems. **89m:93079**
Zapryanov, Ĭ. D. (*with* Tonev, M. I.) Design of decentralized robust control for a class of nonlinear dynamic objects. (Bulgarian. English and Russian summaries) (Not in MR)
Zhang, Yi^1 The stability of large scale systems with infinite delay. **89i:93101**
Zhang, Zhong Jun *see* **Niu, Xiao Ming; et al., 89k:93173**
Zhu, Dao Li Optimization of large scale systems. (Chinese) (Not in MR)
Zhu, Jian Min Novel approach to hierarchical control via single-term Walsh series method. **89j:93004**

93A20 Cascaded systems

Gawthrop, P. J. (*with* Kharbouch, M.) Two-loop self-tuning cascade control. (Not in MR)
Kalouptsidis, N. *see* **Tsinias, J., 89b:93019**
Kharbouch, M. *see* **Gawthrop, P. J.**, (Not in MR)
Randvee, I. An algorithm for the control of unidirected subsystems. (Russian) **89e:93013**
Tsinias, J. (*with* Kalouptsidis, N.) Controllable cascade connections of nonlinear systems. **89b:93019**

Items with secondary classifications in 93A20

Acha, José I. (*with* Torres, Francisco) Explicit expressions for the parameter σ in two-pair cascaded realization of digital transfer functions. (Not in MR)

Anakwa, W. K. N. (*with* Swamy, M. N. S.) Equivalent cascade versions of observer-based controllers for SISO and MIMO linear systems. (Not in MR)

Bruckstein, Alfred M. (*with* Citron, T. K.; Kailath, Thomas) Inverse scattering and minimal partial realizations. **89k:93032**

Citron, T. K. *see* **Bruckstein, Alfred M.; et al., 89k:93032**

Jonckheere, Edmond *see* **Kitapçi, Aysin; et al., 89a:93049**

Kailath, Thomas *see* **Bruckstein, Alfred M.; et al., 89k:93032**

Kitapçi, Aysin (*with* Jonckheere, Edmond; Silverman, Leonard) Singular optimal filtering. **89a:93049**

Li, Zheng Discrete-time adaptive control of systems consisting of known and unknown subsystems. **89k:93132**

Parker, S. R. *see* **Turajlić, Srbijanka R., (89f:00025)**

Shi, Wei *see* **Sun, Xi, 89e:93144**

Silverman, Leonard *see* **Kitapçi, Aysin; et al., 89a:93049**

Sun, Xi (*with* Shi, Wei) Discrete time adaptive control of MIMO systems with dead-zone nonlinearity. (Chinese. English summary) **89e:93144**

Swamy, M. N. S. *see* **Anakwa, W. K. N.**, (Not in MR)

Torres, Francisco *see* **Acha, José I.**, (Not in MR)

Turajlić, Srbijanka R. (*with* Parker, S. R.) A state space approach to the design of orthogonal models. (*see* **89f:00025**)

Warschat, J. (*with* Wunderlich, H. J.) Output-maximal control policies for cascaded production-inventory systems with control and state constraints. **89d:90115**

Wunderlich, H. J. *see* **Warschat, J., 89d:90115**

93A99 None of the above, but in this section

Kiyasbeĭli, Sh. A. *see* **Vladimirskiĭ, È. I.; et al., (89h:00001)**

Shishonok, N. A. *see* **Vladimirskiĭ, È. I.; et al., (89h:00001)**

Vladimirskiĭ, È. I. (*with* Kiyasbeĭli, Sh. A.; Shishonok, N. A.) Uncertainty theory in the realization of problems of the reliability of complex systems. (Russian) (*see* **89h:00001**)

Items with secondary classifications in 93A99

Caianiello, Eduardo R. Systems and uncertainty: a geometrical approach. **89j:94027**

Rastogi, P. N. Explanation, prediction, problem-solving and decision-making in social systems. **89f:90040**

Yamakawa, Takeshi High-speed fuzzy controller hardware system: the mega-FIPS machine. **89e:68003**

93Bxx Controllability, observability, and system structure

93B05 Controllability

Adda, Ph. Contrôlabilité des systèmes bilinéaires généraux et homogènes dans $\mathbf{R}^2$. (English summary) [Controllability of general and homogeneous bilinear systems in $\mathbf{R}^2$] **89f:93005**

Araki, Mituhiko *see* **Hagiwara, Tomomichi, 89m:93007**

Avdonin, S. A. (*with* Gorshkova, O. Ya.) Controllability of multidimensional parabolic systems with delay. (Russian) **89e:93014**

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Balachandran, Krishnan Controllability of a class of perturbed nonlinear systems. **89e:93015**

Banaszuk, A. (*with* Kocięcki, M.; Przyłuski, K. M.) Remarks on controllability of implicit linear discrete-time systems. **89c:93008**

Bisiacco, Mauro *see* **Šebek, M.; et al., 89e:93021**

Boltyanskiĭ, A. V. Normal local controllability of objects that can be described by a system of second-order differential equations with one control parameter. (Russian) **89e:93016**

Bunce, John W. Inertia and controllability in infinite dimensions. **89b:93020**

Burgmeier, P. *see* **Plokhov, A. G., 89k:93019**

Burovoĭ, I. A. *see* **Emel′yanov, S. V.; et al., 89j:93005**

Chagina, O. M. *see* **Lakeev, A. V., 89i:93010**

Chait, Yossi (*with* Radcliffe, Clark J.) Control of flexible structures with spillover using an augmented observer. (Not in MR)

Chen, Zhao Lin (*with* Hong, Hui Min; Zhang, Ji Feng) Controllability of generalised dynamical systems with constrained control. **89i:93008**

Christodoulou, M. A. *see* **Mertzios, B. G.; et al., 89d:93011**

Chukwu, E. N. Global null controllability of nonlinear delay equations with controls in a compact set. **89a:93010**

Crouch, P. E. *see* **Silva Leite, F., 89b:93023**

Dannon, Vitali C. (*with* Kartsatos, Athanassios G.) The controllability of a quasilinear functional-differential system. **89e:93017**

Emel′yanov, S. V. (*with* Korovin, S. K.; Nikitin, Sergei Vyacheslavovich) Controllability of nonlinear systems. Two-dimensional systems. (Russian) **89c:93009**

— (*with* Korovin, S. K.; Nikitin, Sergei Vyacheslavovich) Two-dimensional bilinear systems: classification of singularities and criteria for controllability. (Russian) **89f:93006**

— (*with* Korovin, S. K.; Nikitin, Sergei Vyacheslavovich) Controllability of nonlinear systems and systems on a foliation. **89g:93003**

— (*with* Korovin, S. K.; Nikitin, Sergei Vyacheslavovich) Investigation of controllability by methods of the theory of approximation groups and systems on a foliation. **89i:93009**

— (*with* Burovoĭ, I. A.; Kirilychev, V. N.) Controllability of linear dynamical systems. **89j:93005**

Everitt, W. N. Linear control theory and quasidifferential equations. **89c:93010**

Fornasini, Ettore *see* **Šebek, M.; et al., 89e:93021**

Fúster, Amparo (*with* Guillen, J. M.) Questions of controllability and observability for nonuniformly sampled discrete systems. (Not in MR)

George, Raju K. *see* **Joshi, Mohan, 89k:93015**

Gichev, T. R. Controllability of a singularly perturbed object in some critical cases. (Russian. English and Bulgarian summaries) **89g:93004**

Gorshkova, O. Ya. *see* **Avdonin, S. A., 89e:93014** *and* **89i:93007**

Guillen, J. M. *see* **Fúster, Amparo**, (Not in MR)

Gusar, V. V. Spline-controllability and approximate determination of optimal spline-control. (Russian) **89k:93014**

Hagiwara, Tomomichi (*with* Araki, Mituhiko) Controllability indices of sampled-data systems. **89m:93007**

Hano, Kazuhiro (*with* Hirohata, Tetsuya) Controllability by two vector fields. **89f:93007**

Hermes, Henry (*with* Kawski, Matthias) Local controllability of a single input, affine system. **89h:93009**

Hirohata, Tetsuya *see* **Hano, Kazuhiro, 89f:93007**

Ho, Lop Fat Exact controllability of second order hyperbolic systems with control in the Dirichlet boundary conditions. **89b:93021**

Hong, Hui Min *see* **Chen, Zhao Lin; et al., 89i:93008**

Ignatenko, V. V. (*with* Krakhotko, V. V.) On the controllability of systems that are not solved with respect to the derivative. (Russian) (*see* **89c:00009**)

Iskra, K. K. *see* **Minyuk, S. A., 89e:93020**

Joshi, Mohan (*with* George, Raju K.) Controllability of nonlinear systems. **89k:93015**

Kaczorek, T. (*with* Klamka, Jerzy) Minimum energy control for general model of 2-D linea systems. **89f:93008**

Kartsatos, Athanassios G. *see* **Dannon, Vitali C., 89e:93017**

Kasami, Tadao (*with* Lin, Shu) The binary weight distribution of the extended $(2^m, 2^m-4)$ code of the Reed-Solomon code over $GF(2^m)$ with generator polynomial $(x-\alpha)(x-\alpha^2)(x-\alpha^3)$. **89k:93016**

Kawski, Matthias *see* **Hermes, Henry, 89h:93009**

Kenney, Charles (*with* Laub, Alan J.) Controllability and stability radii for companion form systems. **89j:93006**

Kirilychev, V. N. *see* **Emel′yanov, S. V.; et al., 89j:93005**

Klamka, Jerzy *see* **Kaczorek, T., 89f:93008**

Kocięcki, M. *see* **Banaszuk, A.; et al., 89c:93008**

Korovin, S. K. *see* **Emel′yanov, S. V.; et al., 89c:93009; 89f:93006; 89g:93003** *and* **89i:93009**

Krakhotko, V. V. *see* **Ignatenko, V. V., (89c:00009)**

Krastanov, M. I. A necessary condition for local controllability. (Not in MR)

Lakeev, A. V. (*with* Chagina, O. M.) The method of Lyapunov functions in control synthesis problems. (Russian) **89i:93010**

Laub, Alan J. *see* **Kenney, Charles, 89j:93006**

Lewis, F. L. *see* **Mertzios, B. G.; et al., 89d:93011**

Lin, Shu *see* **Kasami, Tadao, 89k:93016**

Lions, J.-L. ★ Contrôlabilité exacte, perturbations et stabilisation de systèmes distribués. Tome 2. (French) [Exact controllability, perturbations and stabilization of distributed systems. Vol. 2] **89k:93017**

— Some remarks on uniqueness properties. **89k:93018**

— Controlabilité exacte et homogénéisation. I. (English summary) [Exact controllability and homogenization. I] **89e:93018**

— Exact controllability, stabilization and perturbations for distributed systems. **89e:93019**

Littman, Walter (*with* Markus, Lawrence) Exact boundary controllability of a hybrid system of elasticity. **89j:93007**

Litvin, I. N. Controllability of systems with random parameters. (Russian) **89d:93010**

Markus, Lawrence *see* **Littman, Walter, 89j:93007**

Mertzios, B. G. (*with* Christodoulou, M. A.; Syrmos, B. L.; Lewis, F. L.) Direct controllability and observability time domain conditions of singular systems. **89d:93011**

Minyuk, S. A. (*with* Iskra, K. K.) Controllability and observability of first-order linear partial differential systems. (Russian. English summary) **89e:93020**

Murota, Kazuo Refined study on structural controllability of descriptor systems by means of matroids. **89g:93005**

Nikitin, Sergei Vyacheslavovich *see* **Emel′yanov, S. V.; et al., 89c:93009; 89f:93006; 89g:93003** *and* **89i:93009**

Oshchepkov, S. P. (*with* Sholokhovich, F. A.) A sufficient condition for epsilon-controllability. (Russian) **89h:93010**

Plokhov, A. G. (*with* Burgmeier, P.) An approach of approximating the ε-null-controllability set of nonlinear nonautonomous systems. (Russian summary) **89k:93019**

Przyłuski, K. M. Controllability does not imply stabilizability. **89b:93022**

— *see also* **Banaszuk, A.; et al., 89c:93008**

Quinn, Dennis W. Determining the input for a dynamic system which is not completely controllable. **89a:93011**

Radcliffe, Clark J. *see* **Chait, Yossi**, (Not in MR)

Rubio, J. E. *see* **Wilson, D. A.**, (Not in MR)

Šebek, M. (*with* Bisiacco, Mauro; Fornasini, Ettore) Controllability and reconstructibility conditions for 2-D systems. **89e:93021**

Seidman, Thomas I. How violent are fast controls? **89a:93012**

Sholokhovich, F. A. *see* **Oshchepkov, S. P., 89h:93010**

Silva Leite, F. (*with* Crouch, P. E.) Controllability on classical Lie groups. **89b:93023**

Sontag, Eduardo D. Controllability is harder to decide than accessibility. **89j:93008**

Syrmos, B. L. *see* **Mertzios, B. G.; et al., 89d:93011**

Topuzu, E. Some counterexamples in controllability of linear discrete time systems. (Romanian summary) **89j:93009**

Triggiani, R. Exact controllability for wave equation with Neumann boundary control. **89g:93006**

— Exact boundary controllability on $L_2(\Omega) \times H^{-1}(\Omega)$ of the wave equation with Dirichlet boundary control acting on a portion of the boundary $\partial\Omega$, and related problems. **89i:93011**

Varshanidze, L. Kh. On a problem on the numerical solution of a time-optimality problem for linear systems with variable structure. (Russian. English summary) (Not in MR)

Vũ Ngọc Phát Controllability of nonlinear discrete systems without differentiability assumption. **89b:93024**

Wang, Zhen Quan *see* **Xu, Ke Kang, 89m:93008**

Wilson, D. A. (*with* Rubio, J. E.) The theory of moments and the boundary controllability of the diffusion equation. (Not in MR)

Xu, Ke Kang (*with* Wang, Zhen Quan) *D*-controllability and strong *D*-controllability and control of multiparameter and multiple time-scale singularly perturbed systems. **89m:93008**

Zaballa, Ion Interlacing inequalities and control theory. **89c:93011**

Zhang, Ji Feng *see* **Chen, Zhao Lin; et al., 89i:93008**

Items with secondary classifications in 93B05

Ailon, A. (*with* Langholz, G.) A study of controllability and time-optimal control of a robot model with drive train compliances and actuator dynamics. (Not in MR)

— (*with* Segev, Reuven) Driving a linear constant system by a piecewise constant control. **89b:49055**

Aĭsagaliev, S. A. Controllability of nonlinear control systems. (Russian. Kazakh summary) **89d:49041**

— Controllability and absolute stability of controllable systems. (Russian) **89e:93153**

Andreini, Alessandra (*with* Bacciotti, Andrea; Stefani, Gianna) Global stabilizability of homogeneous vector fields of odd degree. **89h:93044**

Bacciotti, Andrea *see* **Andreini, Alessandra; et al., 89h:93044**

Balachandran, Krishnan Controllability of nonlinear systems with implicit derivative. **89f:34114**

Bar-Itzhack, I. Y. (*with* Berman, N.) Control theoretic approach to inertial navigation systems. **89j:93077**

Belikov, Sergeĭ Arkad′evich Observability of linear and bilinear systems in a Hilbert space. **89e:93025**

Belyavskiĭ, S. S. The dimension of the attainability set of a system of differential equations with switching. (Russian) **89b:49056**

Benzaid, Z. (*with* Lutz, D. A.) Constrained controllability of perturbed discrete-time systems. **89i:49027**

— Global null controllability of perturbed linear systems with constrained controls. **89k:49029**

Berman, N. *see* **Bar-Itzhack, I. Y., 89j:93077**

Cârjă, O. On constraint controllability of linear systems in Banach spaces. **89b:49057**

Carmichael, N. (*with* Quinn, M. D.) Fixed-point methods in nonlinear control. **89d:93052**

Chatterjee, J. *see* **Mukherjee, Rathindra Nath^2, 89e:93128**

Cheremenskiĭ, Aleksandr G. Technical stabilization of linear control systems. (Russian. English summary) **89k:93183**

Chizeck, Howard J. *see* **Ji, Yuandong, 89g:93111** *and* **89k:93224**

Chukwu, E. N. The time optimal control theory of nonlinear systems of neutral type. **89f:34115**

— *see also* **Underwood, Robert G., 89b:34175**

Dai, Li Yi Control problem for linear systems with input derivatives control. **89e:93131**

Deciu, Elena Adjoint operator nodes, controllability and observability on complex Hilbert spaces. (Romanian summary) **89f:47026**

Demmel, James W. (*with* Kågström, Bo) Accurate solutions of ill-posed problems in control theory. **89b:65131**

Dion, J. M. *see* **Giri, F.; et al., 89k:93103**

Dugard, L. *see* **Giri, F.; et al., 89k:93103**

Emel′yanov, S. V. (*with* Korovin, S. K.; Mamedov, I. G.; Nikitin, Sergei Vyacheslavovich) Criterion of controllability of nonlinear dynamic systems on the plane under phase restrictions. **89k:49030**

Evans, F. J. *see* **Larsen, P. Martin**, (**89g:93002**)

Faĭbusovich, L. E. Matrix Riccati inequality: existence of solutions. **89k:93048**

Fedenia, M. M. *see* **Stojić, M. R.; et al., 89i:93041**

Fergola, P. (*with* Tenneriello, C.) Partial stability of large scale systems via comparison method. **89h:93047**

Fisher, Michael Ernest (*with* Gayek, Jonathan E.) Estimating reachable sets for two-dimensional linear discrete systems. **89b:49058**

Gao, Wei Bing *see* **Shi, Zhi Cheng, 89m:93005**

Gayek, Jonathan E. *see* **Fisher, Michael Ernest, 89b:49058**

Gershkovich, V. Ya. Estimates for the admissibility sets for fields of cones and polysystems. (Russian) **89m:49067**

Giri, F. (*with* Dion, J. M.; M'Saad, M.; Dugard, L.) A globally convergent pole placement indirect adaptive controller. **89k:93103**

Grasse, Kevin A. Sufficient conditions for the functional reproducibility of time-varying, input-output systems. **89c:93014**

Grizzle, Jessy W. *see* **Isidori, A., 89i:93088**

Gubin, S. V. (*with* Kovalev, A. M.) Gauge function of the domain of attainability of a linear control system and its application in estimation problems. (Russian. English summary) **89a:49037**

— Extremal properties of corner points of the boundary of a domain of attainability. (Russian) **89g:49050**

Hamano, Fumio Necessary and sufficient conditions for subspace reachability and controllability of discrete-time, time-invariant linear dynamical systems. **89j:49037**

Han, Zheng Zhi *see* **Zheng, Yu Fan, 89b:93018**

Haraux, A. Contrôlabilité exacte d'une membrane rectangulaire au moyen d'une fonctionnelle analytique localisée. (English summary) [Exact controllability of a rectangular membrane by means of a localized analytic functional] **89e:49030**

Hayakawa, Yoshikazu (*with* Šiljak, Dragoslav D.) On almost invariant subspaces of structured systems and decentralized control. **89k:93166**

Heijmans, H. J. A. M. Semigroup theory for control on sun-reflexive Banach spaces. **89d:93055**

Hinamoto, Takao (*with* Maekawa, Sadao; Shimonishi, Jiro; Venetsanopoulos, Anastasios N.) Balanced realization and model reduction of 3-D separable-denominator transfer functions. **89g:93014**

(Hirschorn, Ronald M.) *see* **Kumpera, A., 89c:49029**

Ho, Lop Fat Spectral assignability of systems with scalar control and application to a degenerate hyperbolic system. **89b:93060**

Horváth, M. Vibrating strings with free ends. **89e:49031**

Huillet, T. (*with* Monin, André-Paul-Valentin; Salut, G.) Représentations exponentielles en commande non linéaire. (English summary) [Exponential representations in nonlinear control] **89g:93029**

Iijima, Junichi *see* **Nakano, Bunpei; et al., 89e:93037**

Isidori, A. (*with* Grizzle, Jessy W.) Fixed modes and nonlinear noninteracting control with stability. **89i:93088**

Jakubczyk, B. Feedback linearization of discrete-time systems. **89g:93020**

Ji, Yuandong (*with* Chizeck, Howard J.) Controllability, observability and discrete-time Markovian jump linear quadratic control. **89g:93111**

— (*with* Chizeck, Howard J.) Optimal quadratic control of jump linear systems with separately controlled transition probabilities. **89k:93224**

Kaczorek, T. Sufficient conditions for impulse uncontrollability and impulse unobservability of singular systems. **89k:93121**

Kågström, Bo *see* **Demmel, James W., 89b:65131**

Kalouptsidis, N. *see* **Tsinias, J., 89b:93019**

Kawski, Matthias A necessary condition for local controllability. **89a:49038**

— Control variations with an increasing number of switchings. **89b:49042**

Khaĭlov, E. N. Analytic parametrization of the set of controllability in a linear control problem. (Russian) **89j:49038**

Khrustalev, M. M. An accurate description of feasibility sets and conditions for the global optimality of dynamical systems. I. Estimates for and an accurate description of feasibility sets and controllability sets. **89m:49072**

— An accurate description of feasibility sets and conditions for the global optimality of dynamic systems. II. Conditions for global optimality. **89m:49073**

Korobov, V. I. (*with* Sklyar, G. M.) A constructive method for solving the problem of synthesis. (Russian) **89j:93046**

Korovin, S. K. *see* **Emel′yanov, S. V.; et al., 89k:49030**

Kovalev, A. M. *see* **Gubin, S. V., 89a:49037**

Krabs, W. On time-minimal distributed control of vibrations. **89j:49039**

Krener, Arthur J. Normal forms for linear and nonlinear systems. **89b:93036**

Kumpera, A. Remarks on a paper: "Global controllability of nonlinear systems" [SIAM J. Control Optimization **14** (1976), no. 4, 700–711; MR **58** #15374] by R. M. Hirschorn. **89c:49029**

Kupka, I. A. K. ★ Introduction to the theory of systems. **89e:93001**

Langholz, G. *see* **Ailon, A.**, (Not in MR)

Larsen, P. Martin (*with* Evans, F. J.) Structural design of decentralized control systems. (*see* **89g:93002**)

Lin, Yi^3 *see* **Ma, Yonghao, 89b:93012** *and* **89k:93007**

Lions, J.-L. Contrôlabilité exacte et perturbations singulières. II. La méthode de dualité. [Exact controllability and singular perturbations. II. The duality method] **89b:49061**

— Exact controllability and singular perturbations. **89d:49042**

Lutz, D. A. *see* **Benzaid, Z., 89i:49027**

Ma, Yonghao (*with* Lin, Yi^3) Some properties of linked time systems. **89b:93012**

— (*with* Lin, Yi^3) Similarity between systems and direct sum decomposition. **89k:93007**

Maekawa, Sadao *see* **Hinamoto, Takao; et al., 89g:93014**

Maione, Bruno (*with* Turchiano, Biagio) Characterization of decoupling structural zeros of Rosenbrock's polynomial matrices. **89b:93061**

Mamedov, I. G. *see* **Emel′yanov, S. V.; et al., 89k:49030**

Meerkov, Semyon M. (*with* Runolfsson, Thordur) Residence time control. **89b:93120**

Minyuk, S. A. On the theory of the controllability and feasibility of linear stationary differential-difference systems. (Russian) **89i:49025**

— Complete null-controllability and observability of linear systems with retarded argument. (Russian) **89k:34137**

Mio, Masao *see* **Suzuki, Yoshihiko, 89h:94017**

Monin, André-Paul-Valentin *see* **Huillet, T.; et al., 89g:93029**

M'Saad, M. *see* **Giri, F.; et al., 89k:93103**

Mukherjee, Rathindra Nath^2 (*with* Chatterjee, J.) Verification of the global controllability for a certain class of time optimal control problems. **89e:93128**

Murota, Kazuo ★ Systems analysis by graphs and matroids. **89b:93017**

Naito, K. Approximate controllability of control systems under some inequality conditions. **89f:49033**

Nakano, Bunpei (*with* Iijima, Junichi; Sato, Ryo) Meaning of state-space representation and its relation to canonical form. II. Controllability and constructibility. **89e:93037**

Niane, Mary Teuw Contrôlabilité exacte de l'équation des plaques vibrantes dans un polygone. (English summary) [Exact controllability of the vibrating plates equation in a polygon] **89i:35021**

Nikitin, Sergei Vyacheslavovich *see* **Emel′yanov, S. V.; et al., 89k:49030**

Olbrot, A. W. (*with* Pandolfi, L.) Null controllability of a class of functional-differential systems. **89b:34174**

Özveren, Cüneyt M. (*with* Verghese, George C.; Willsky, Alan S.) Asymptotic orders of reachability in perturbed linear systems. **89g:49052**

Pandolfi, L. *see* **Olbrot, A. W., 89b:34174**

Podchukaev, V. A. A new criterion for stability of nonlinear systems. **89m:34069**

Pokornyĭ, Yu. V. Quasisynthesis in a guidance problem. (Russian) (*see* **89j:34002**)

Quinn, M. D. *see* **Carmichael, N., 89d:93052**

Runolfsson, Thordur *see* **Meerkov, Semyon M., 89b:93120**

Sallet, G. Strong controllability for series cascade of polynomial control systems. **89g:49054**

Salut, G. *see* **Huillet, T.; et al., 89g:93029**

Sato, Ryo *see* **Nakano, Bunpei; et al., 89e:93037**

Schilling, Klaus An approach to control theory by fixed point algorithms. **89d:49013**

Segev, Reuven *see* **Ailon, A., 89b:49055**

Shi, Zhi Cheng (*with* Gao, Wei Bing) Decentralized control for linear time-varying systems. **89m:93005**

Shimonishi, Jiro *see* **Hinamoto, Takao; et al., 89g:93014**

Šiljak, Dragoslav D. *see* **Hayakawa, Yoshikazu, 89k:93166**

Sklyar, G. M. *see* **Korobov, V. I., 89j:93046**

Sontag, Eduardo D. Finite-dimensional open-loop control generators for nonlinear systems. **89h:93029**

Stefani, Gianna On the local controllability of a scalar-input control system. **89c:49030**

— *see also* **Andreini, Alessandra; et al., 89h:93044**

Stojić, M. R. (*with* Fedenia, M. M.; Stojić, R.) Sensitivities of the prescribed pole spectrum in a closed-loop control system. **89i:93041**

Stojić, R. *see* **Stojić, M. R.; et al., 89i:93041**

Suzuki, Yoshihiko (*with* Mio, Masao) Structural controllability of electromechanical networks. **89h:94017**

Tadmor, Gilead Trajectory stabilizing controls in hereditary linear systems. **89j:93093**

Tan, Shaohua (*with* Vandewalle, Joos) Canonical form under strong equivalence transformations and controllability indexes in singular systems. **89g:93010**

Tenneriello, C. *see* **Fergola, P., 89h:93047**

Tsinias, J. (*with* Kalouptsidis, N.) Controllable cascade connections of nonlinear systems. **89b:93019**

Turchiano, Biagio *see* **Maione, Bruno, 89b:93061**

Underwood, Robert G. (*with* Chukwu, E. N.) Null controllability of nonlinear neutral differential equations. **89b:34175**

Vandewalle, Joos *see* **Tan, Shaohua, 89g:93010**

Venetsanopoulos, Anastasios N. *see* **Hinamoto, Takao; et al., 89g:93014**

Verghese, George C. *see* **Özveren, Cüneyt M.; et al., 89g:49052**

Weck, N. Null controllability and exact controllability for parabolic equations. **89a:49041**

Werner, K.-D. Boundary value controllability and observability problems for the wave and heat equation. **89e:49035**

Willsky, Alan S. *see* **Özveren, Cüneyt M.; et al., 89g:49052**

Wonham, W. M. A control theory for discrete-event systems. **89j:93065**

You, Yun Cheng Dynamical boundary control of two-dimensional Petrovsky system: vibrating rectangular plate. **89e:93152**

Zabello, L. E. On the investigation of approximate zero-controllability in linear nonstationary systems with delay. (Russian) **89d:34131**

Zhao, Yi *see* **Zhou, Hong Xing, 89j:93001**

Zheng, Yu Fan (*with* Han, Zheng Zhi) Description of properties of decentralized systems by (A, B)-characteristic subspace. **89b:93018**

Zhou, Hong Xing (*with* Zhao, Yi) Controllability theory for nonlinear systems. (Chinese. English summary) **89j:93001**

Zuazua, Enrike Contrôlabilité exacte de systèmes d'évolution non linéaires. (English summary) [Exact controllability of nonlinear evolution systems] **89d:49044**

93B07 Observability

Ahson, S. I. *see* **Prasad, R.; et al., 89j:93012**

Astrovskiĭ, A. I. A method for solving an observation-estimation problem in linear nonstationary systems. **89g:93007**

— A method for constructing information sets in linear nonstationary observation systems. (Russian. English summary) **89k:93020**

Aubin, Jean-Pierre (*with* Frankowska, H.) Observabilité des systèmes sous incertitude. (English summary) [Observability of systems under uncertainty] **89e:93022**

Avramenko, L. G. (*with* Bordyug, B. A.; Larin, V. B.) On weakly nonlinear measurable systems. (Russian) **89e:93023**

Baras, J. S. (*with* Bensoussan, A.; James, M. R.) Dynamic observers as asymptotic limits of recursive filters: special cases. **89j:93010**

— *see also* **James, M. R., 89e:93026**

Bastin, Georges (*with* Gevers, M.) Stable adaptive observers for nonlinear time-varying systems. **89e:93024**

Belikov, Sergeĭ Arkad′evich Observability of linear and bilinear systems in a Hilbert space. **89e:93025**

Bensoussan, A. *see* **Baras, J. S.; et al., 89j:93010**

Birk, J. (*with* Zeitz, M.) Extended Luenberger observer for nonlinear multivariable systems. (Not in MR)

Bordyug, B. A. *see* **Avramenko, L. G.; et al., 89e:93023**

de Brucq, D. (*with* Panzarella, L.; Rakotopara, D.) Observation d'un système non linéaire. (English summary) [Observation of a nonlinear system] (Not in MR)

Byrnes, Christopher I. (*with* Martin, Clyde Franklin) Global observability and detectability: an overview. **89k:93021**

Choi, Keh-Kun *see* **Hong, Yeon-Chan; et al.**, (Not in MR)

Cohn, Stephen E. (*with* Dee, Dick P.) Observability of discretized partial differential equations. **89i:93012**

Corless, M. J. *see* **Walcott, B. L.; et al., 89b:93027** *and* **Zeitz, M., 89b:93028**

Dai, Li Yi Observer problem for linear systems with input derivatives control. **89k:93022**

Dayawansa, Wijesuriya P. (*with* Martin, Clyde Franklin) Observing linear dynamics with polynomial output functions. **89a:93013**

Dee, Dick P. *see* **Cohn, Stephen E., 89i:93012**

Fang, Chong Zhi *see* **Ge, Wei, 89i:93013**; **Tao, Luo Wen**, (Not in MR)

Fogel, Eli (*with* Gavish, Motti) Nth-order dynamics target observability from angle measurements. (Not in MR)

Frankowska, H. *see* **Aubin, Jean-Pierre, 89e:93022**

Galperin, E. A. (*with* Zheng, Quan) Nonlinear observation via global optimization methods: measure theory approach. **89k:93023**

Gao, Wei Bing *see* **Xia, Xiao Hua, 89h:93012** *and* **89j:93014**

Gauthier, J.-P. (*with* Kazakos, D.) Observabilité et observateurs de systèmes non linéaires. (English summary) [Observability and observers of nonlinear systems] **89d:93012**

Gavish, Motti *see* **Fogel, Eli**, (Not in MR)

Ge, Wei (*with* Fang, Chong Zhi) Existence conditions for a class of robust observers. (Chinese. English summary) **89i:93013**

Gevers, M. *see* **Bastin, Georges, 89e:93024**

Gilliam, David (*with* Mair, Bernard; Martin, Clyde Franklin) Observability and determination of surface temperature. I. **89i:93014**

— (*with* Li, Zhu; Martin, Clyde Franklin) Discrete observability of the heat equation on bounded domains. **89k:93024**

Gusev, M. I. (*with* Kurzhanskiĭ, A. B.) Inverse problems in the dynamics of control systems. (Russian) **89m:93009**

Hong, Yeon-Chan (*with* Kim, Jong-Hwan; Choi, Keh-Kun) Discrete adaptive observer with exponential weighting properties. (Not in MR)

Hwang, C. S. *see* **Mohler, Ronald R., 89j:93011**

James, M. R. (*with* Baras, J. S.) An observer design for nonlinear control systems. **89e:93026**

— *see also* **Baras, J. S.; et al., 89j:93010**

Johnson, C. D. Optimal initial conditions for full-order observers. (Not in MR)

Kazakos, D. *see* **Gauthier, J.-P., 89d:93012**

Keller, Helmut Philipp Nonlinear observer design by transformation into a generalized observer canonical form. **89d:93013**

Kim, Jong-Hwan *see* **Hong, Yeon-Chan; et al.**, (Not in MR)

Kotta, Ülle A group-theoretic approach to the observability of nonlinear dynamical systems with discrete time. (Russian) **89b:93025**

Kozerenko, K. V. On the number of readings. (Russian) **89d:93014**

Kryazhimskiĭ, A. V. (*with* Osipov, Yu. S.) Inverse problems in dynamics and control models. (Russian) **89m:93010**

Kurek, J. E. Observability and reconstructibility of the 2-D Fornasini-Marchesini model. **89e:93027**

Kurzhanskiĭ, A. B. *see* **Gusev, M. I., 89m:93009**

Kuznetsov, Yu. I. ★ Восстановление колебательной системы по вектору наблюдений. (Russian) [Reconstruction of an oscillatory system from the observation vector] **89c:93012**

Larin, V. B. *see* **Avramenko, L. G.; et al., 89e:93023**

Lebedev, A. L. Ideal observability of discrete systems with delay. (Russian) **89b:93026**

Li, Zhu *see* **Gilliam, David; et al., 89k:93024**

Lin, Feng (*with* Wonham, W. M.) On observability of discrete-event systems. **89g:93008**

Lindner, D. K. (*with* Perkins, W. R.) The generalized Hessenberg representation and near aggregation. **89k:93025**

Mahalanabis, A. K. *see* **Prasad, R.; et al., 89j:93012**

Mair, Bernard *see* **Gilliam, David; et al., 89i:93014**

Martin, Clyde Franklin (*with* Smith, Jennifer) Approximation, interpolation and sampling. **89d:93015**

— *see also* **Dayawansa, Wijesuriya P., 89a:93013**; **Gilliam, David; et al., 89i:93014**; **Byrnes, Christopher I., 89k:93021** *and* **Gilliam, David; et al., 89k:93024**

Metel′skiĭ, A. V. A criterion for the observability of systems of differential-difference equations. (Russian. English summary) **89d:93016**

Mielczarski, Władysław Very fast linear and nonlinear observers. I. Theory. **89i:93015**

— Very fast linear and nonlinear observers. II. Application to a power system. **89i:93016**

Miyamoto, S. Topological properties of observability for a system of parabolic type. **89k:93026**

Mohler, Ronald R. (*with* Hwang, C. S.) Nonlinear data observability and information. **89j:93011**

Osipov, Yu. S. *see* **Kryazhimskiĭ, A. V., 89m:93010**

Panzarella, L. *see* **de Brucq, D.; et al.**, (Not in MR)

Park, Youngjin (*with* Stein, Jeffrey L.) Closed-loop, state and input observer for systems with unknown inputs. (Not in MR)

Perkins, W. R. *see* **Lindner, D. K., 89k:93025**

Petrov, V. P. *see* **Vyazovik, A. P., 89e:93028**

Prasad, R. (*with* Ahson, S. I.; Mahalanabis, A. K.) Decentralized observer for interconnected systems. **89j:93012**

Rakotopara, D. *see* **de Brucq, D.; et al.**, (Not in MR)

Shafai, B. Parallel procedure for the design of observers in high-order multivariable systems. (Not in MR)

— *see also* **Tsui, Chia-Chi**, (Not in MR)

Shklyar, B. Sh. Observability of objects of neutral type by means of linear operations. **89h:93011**

Sira-Ramirez, Hebertt J. Algebraic condition for observability of nonlinear analytic systems. **89j:93013**

Smith, Jennifer *see* **Martin, Clyde Franklin, 89d:93015**

Starkov, K. E. Observability of polynomial systems based on observation programs. **89m:93011**

— The choice of samples in degenerate observation problems. **89k:93027**

Stein, Jeffrey L. *see* **Park, Youngjin**, (Not in MR)

Sun, You Xian (*with* Wang, Qing Guo) Observer design for bilinear multivariable systems with unknown disturbance. (Chinese summary) **89k:93028**

Tao, Luo Wen (*with* Fang, Chong Zhi) Observers for a class of nonlinear distributed parameter systems. (Chinese. English summary) (Not in MR)

— (*with* Fang, Chong Zhi) Design of nonlinear observers on the basis of optimization methods. (Chinese. English summary) (Not in MR)

Tsui, Chia-Chi New approach to robust observer design. **89d:93017**

— Comments on: "Parallel procedure for the design of observers in high-order multivariable systems" [Internat. J. Control **47** (1988), no. 5, 1489–1496] by B. Shafai. (Not in MR)

Vyazovik, A. P. (*with* Petrov, V. P.) A nonlinear control-observation problem. (Russian) **89e:93028**

Walcott, B. L. (*with* Corless, M. J.; Żak, S. H.) Comparative study of nonlinear state-observation techniques. **89b:93027**

— *see also* **Zeitz, M., 89b:93028**

Wang, Qing Guo *see* **Sun, You Xian, 89k:93028**

Wilde, Richard W. *see* **Yang, Fu Yu, 89i:93017**

Wonham, W. M. *see* **Lin, Feng, 89g:93008**

Xia, Xiao Hua (*with* Gao, Wei Bing) Nonlinear observer design by observer canonical forms. **89h:93012**

— (*with* Gao, Wei Bing) On exponential observers for nonlinear systems. **89j:93014**

Yahagi, Takashi Minimax observers. **89k:93029**

Yang, Fu Yu (*with* Wilde, Richard W.) Observers for linear systems with unknown inputs. **89i:93017**

Yaz, Engin Design of observers for nonlinear time-varying systems. **89e:93029**

Żak, S. H. *see* **Walcott, B. L.; et al., 89b:93027** *and* **Zeitz, M., 89b:93028**

Zaslavskiĭ, B. G. Observability of quasimonotone systems. (Russian. English summary) **89c:93013**

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Carmichael, N. (*with* Quinn, M. D.) Fixed-point methods in nonlinear control. **89d:93052**
Cassandras, Christos G. (*with* Strickland, Stephen G.) Perturbation analysis and augmented Markov chains for discrete event systems. (*see* **89c:00031**)
Chait, Yossi (*with* Radcliffe, Clark J.) Control of flexible structures with spillover using an augmented observer. (Not in MR)
Ch'ên, Po Hsien (*with* Lu, Hung Ching) State estimation of large-scale systems. **89f:93004**
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Chen, Ye-Hwa (*with* Tomizuka, Masayoshi) Design of adaptive observer for plant under input disturbance and measurement noise. **89a:93031**
Chizeck, Howard J. *see* **Ji, Yuandong, 89g:93111**
Christodoulou, M. A. *see* **Mertzios, B. G.; et al., 89d:93011**
Dayawansa, Wijesuriya P. (*with* Martin, Clyde Franklin) Disturbance decoupling, (f, g)-invariant and controllability subspaces of a class of homogeneous polynomial systems. **89k:93057**
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Egorov, S. N. *see* **Dyumin, A. F., 89j:93115**
Evans, F. J. *see* **Larsen, P. Martin, (89g:93002)**
Fornasini, Ettore *see* **Šebek, M.; et al., 89e:93021**
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Gawronski, Wlodzimierz (*with* Natke, H. G.) Order estimation of AR and ARMA models. **89e:93132**
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Han, Zheng Zhi *see* **Zheng, Yu Fan, 89b:93018**
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He, Xiang Wei *see* **Ye, Xiao Ye, 89b:93078**
Heijmans, H. J. A. M. Semigroup theory for control on sun-reflexive Banach spaces. **89d:93055**
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Ho, Lop Fat Exact controllability of second order hyperbolic systems with control in the Dirichlet boundary conditions. **89b:93021**
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Iskra, K. K. *see* **Minyuk, S. A., 89e:93020**
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Kaźmierkowski, M. P. *see* **Nilsen, R.,** (Not in MR)
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Kirin, N. E. *see* **Zaika, Yu. V., 89g:93034**
Krener, Arthur J. Normal forms for linear and nonlinear systems. **89b:93036**
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Maekawa, Sadao *see* **Hinamoto, Takao; et al., 89g:93014** *and* **89h:93023**
Maekawa, Yukihiro *see* **Hoshino, Ikuya; et al.,** (Not in MR)
Maione, Bruno (*with* Turchiano, Biagio) Characterization of decoupling structural zeros of Rosenbrock's polynomial matrices. **89b:93061**
Marchenko, Vladimir Matveevich (*with* V″lkova, Yu. S.) Game-theoretic controllability problems for linear discrete systems. (Russian. English summary) **89c:90125**
Martin, Clyde Franklin *see* **Dayawansa, Wijesuriya P., 89k:93057**
Mertzios, B. G. (*with* Christodoulou, M. A.; Syrmos, B. L.; Lewis, F. L.) Direct controllability and observability time domain conditions of singular systems. **89d:93011**
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Natke, H. G. *see* **Gawronski, Wlodzimierz, 89e:93132**
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Quinn, M. D. *see* **Carmichael, N., 89d:93052**
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Shimonishi, Jiro *see* **Hinamoto, Takao; et al., 89g:93014** *and* **89h:93023**
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Strickland, Stephen G. *see* **Cassandras, Christos G., (89c:00031)**
Syrmos, B. L. *see* **Mertzios, B. G.; et al., 89d:93011**
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93B10 Canonical structure

Anderson, B. D. O. (*with* Skelton, Robert E.) The generation of all q-Markov covers. (Not in MR)
Baram, Yoram (*with* Shaked, U.) On the internal structure of minimal stochastic realizations. **89j:93015**
Chen, Dong *see* **Tu, Feng Sheng, 89b:93029**
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Hermes, Henry Involutive subdistributions and canonical forms for distributions and control systems. **89f:93009**
Hinrichsen, D. *see* **Glüsing-Lüerssen, H., 89k:93030**
Huillet, T. (*with* Monin, André-Paul-Valentin; Salut, G.) Lie algebraic canonical representations in nonlinear control systems. **89d:93018**
Kovbasa, G. T. Exact solution of a decentralization problem and design of a system for the automatic control of nonstationary multidimensional systems with given stability characteristics. (Russian) **89e:93031**
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Lu, W. S. *see* **Lee, E. B.; et al., 89a:93014**
Monin, André-Paul-Valentin *see* **Huillet, T.; et al., 89d:93018**
Nam, Kwanghee Linearization of discrete-time nonlinear systems and a canonical structure. **89k:93031**
Nordström, Niklas Order reducing approximation of two-time-scale stochastic discrete linear time-varying systems. (*see* **89b:93008**)
Salut, G. *see* **Huillet, T.; et al., 89d:93018**
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Shaked, U. *see* **Baram, Yoram**, **89j:93015**
Sinha, N. K. *see* **Lastman, G. J.**, **89g:93009**
Skelton, Robert E. *see* **Anderson, B. D. O.**, (Not in MR)
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Theodorou, N. *see* **Tzafestas, Spyros G.**, **89h:93013**
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Tzafestas, Spyros G. (*with* Theodorou, N.) An inductive approach to the state space representation of multidimensional systems. **89h:93013**
Vandewalle, Joos *see* **Tan, Shaohua**, **89g:93010**
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Items with secondary classifications in 93B10

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Arapostathis, Aristotle *see* **Nam, Kwanghee**, **89g:93058**
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Fliess, Michel Nonlinear control theory and differential algebra. **89j:93058**
Fornasini, Ettore *see* **Bisiacco, Mauro; et al.**, **89k:93046**
Gao, Wei Bing *see* **Xia, Xiao Hua**, **89h:93012**
Gevers, M. *see* **Bastin, Georges**, **89e:93024**
Glover, Keith (*with* Jonckheere, Edmond) A comparison of two Hankel-norm methods for approximating spectra. **89c:93031**
Gohberg, I. (*with* Kaashoek, M. A.) Various minimalities for systems with boundary conditions and integral operators. **89h:93017**
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Iijima, Junichi *see* **Nakano, Bunpei; et al.**, **89e:93037**
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Jonckheere, Edmond *see* **Opdenacker, Philippe C.**, **89c:93016** *and* **Glover, Keith**, **89c:93031**
Kaashoek, M. A. *see* **Gohberg, I.**, **89h:93017**
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Kramer, Friedrich S. (*with* Calise, Anthony J.) Fixed-order dynamic compensation for multivariable linear systems. **89i:93049**
Lafay, J. F. *see* **Commault, C.; et al.**, **89k:93087**
Laub, Alan J. *see* **Kenney, Charles**, **89j:93006**
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Maekawa, Sadao *see* **Hinamoto, Takao; et al.**, **89g:93014**
Malabre, M. *see* **Commault, C.; et al.**, **89k:93087**
Marchesini, Giovanni *see* **Bisiacco, Mauro; et al.**, **89k:93046**
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Opdenacker, Philippe C. (*with* Jonckheere, Edmond) A state space approach to approximation by phase matching. **89c:93016**
Parker, S. R. *see* **Turajlić, Srbijanka R.**, (**89f:00025**)
Sato, Ryo *see* **Nakano, Bunpei; et al.**, **89e:93037**
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Van Dooren, Paul *see* **Beelen, Th. G. J.**, **89b:65102**
Venetsanopoulos, Anastasios N. *see* **Hinamoto, Takao; et al.**, **89g:93014**
Verriest, Erik Projection techniques for model reduction. **89c:93021**
Voit, Eberhard O. Recasting nonlinear models as S-systems. **89f:92052**
Xia, Xiao Hua (*with* Gao, Wei Bing) Nonlinear observer design by observer canonical forms. **89h:93012**

93B15 Realizability of systems from input-output data

Acha, José I. (*with* Torres, Francisco) Explicit expressions for the parameter σ in two-pair cascaded realization of digital transfer functions. (Not in MR)
Agathoklis, P. *see* **Sreeram, V.**, **89k:93039**
Al-Saggaf, Ubaid M. (*with* Franklin, Gene F.) Model reduction via balanced realizations: an extension and frequency weighting techniques. (Not in MR)
Antoniou, G. E. (*with* Paraskevopoulos, P. N.; Varoufakis, S. J.) Minimal state-space realization of factorable 2-D transfer functions. **89e:93033**
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Badawi, Faris A. Stochastic realizations of a discrete-time nonstationary process. **89j:93016**
Bandyopadhyay, Subhansu *see* **Saha, Banani**, **89m:93013**
Banks, S. P. (*with* Chanane, B.) A generalized frequency response for nonlinear systems. **89e:93034**
Barnes, Casper W. *see* **Tokaji, Isao**, (Not in MR)
Basto Gonçalves, J. Minimal-dimensional realizations of Hamiltonian control systems. **89e:93035**
Behtash, S. *see* **Shahruz, S. M.**, **89m:93014**
Bruckstein, Alfred M. (*with* Citron, T. K.; Kailath, Thomas) Inverse scattering and minimal partial realizations. **89k:93032**
Chanane, B. *see* **Banks, S. P.**, **89e:93034**
Christodoulou, M. A. *see* **Vachtsevanos, G.; et al.**, (Not in MR)
Citron, T. K. *see* **Bruckstein, Alfred M.; et al.**, **89k:93032**
Collingwood, P. C. *see* **Crouch, P. E.**, **89d:93019**
Conte, Giuseppe (*with* Moog, Claude H.; Perdon, A.-M.) Un théorème sur la représentation entrée-sortie d'un système non linéaire. (English summary) [A theorem on the input-output representation of a nonlinear system] **89j:93017**
Cooper, J. E. *see* **Juang, J.-N.; et al.**, (Not in MR)
Crouch, P. E. Hamiltonian realizations of finite Volterra series. **89g:93011**
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Desai, U. B. (*with* Skelton, Robert E.) Partially nested q-Markov covariance equivalent realizations. **89h:93014**
— (*with* Hsu, Chieh Su) Minimum phase model reduction of deterministic systems via stochastic balancing. **89g:93012**
Dickinson, Bradley W. *see* **Schwartz, Carla A.**, **89c:93017**
Emre, E. (*with* Seo, Jin H.) Realization theoretic solution of two analytic matrix equations with application to stabilization of infinite-dimensional systems. **89k:93034**
Eydgahi, Ali M. State-space family realization of 2-D linear digital systems. **89k:93035**
— (*with* Singh, Harpreet[1]) State-space models of 3-D transfer function matrix. **89k:93036**
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Fortuna, L. (*with* Gallo, Antonio; Guglielmino, C.; Nunnari, G.) On the solution of a nonlinear matrix equation for MIMO symmetric realizations. **89e:93036**
Franklin, Gene F. *see* **Al-Saggaf, Ubaid M.**, (Not in MR)
Gallo, Antonio *see* **Fortuna, L.; et al.**, **89e:93036**
Grasse, Kevin A. Sufficient conditions for the functional reproducibility of time-varying, input-output systems. **89c:93014**
Green, Michael B. A relative error bound for balanced stochastic truncation. (Not in MR)
Guglielmino, C. *see* **Fortuna, L.; et al.**, **89e:93036**
Hakimi, S. Louis *see* **Lutz, William J.**, **89i:93020**
Hinamoto, Takao (*with* Maekawa, Sadao; Shimonishi, Jiro; Venetsanopoulos, Anastasios N.) Balanced realization and model reduction of 3-D separable-denominator transfer functions. **89g:93014**
Hsu, Chieh Su *see* **Desai, U. B.**, **89g:93012**
Iijima, Junichi *see* **Nakano, Bunpei; et al.**, **89e:93037**

Izhvanov, Yu. L. *see* **Kusov, I. F.; et al., 89i:93019**
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— Existence of global analytic realizations of nonlinear casual operators. (Russian summary) **89g:93015**
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Jonckheere, Edmond *see* **Opdenacker, Philippe C., 89c:93016**
Juang, J.-N. (*with* Cooper, J. E.; Wright, J. R.) An eigensystem realization algorithm using data correlations (ERA/DC) for modal parameter identification. (Not in MR)
Kailath, Thomas *see* **Bruckstein, Alfred M.; et al., 89k:93032**
Kamen, Edward W. *see* **Poolla, K. R.; et al., 89d:93020**
Khargonekar, Pramod P. *see* **Poolla, K. R.; et al., 89d:93020**
Kimura, Hidenori Positive partial realization of covariance sequences. (*see* **89b:93008**)
Kusov, I. F. (*with* Tumanov, M. P.; Izhvanov, Yu. L.) An algebraic approach to the analysis of nonstationary dynamical systems. (Russian) **89i:93019**
Lamnabhi-Lagarrigue, F. *see* **Crouch, P. E., 89i:93018**
Lee, E. B. *see* **Lu, W. S.; et al., 89b:93030**
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Lutz, William J. (*with* Hakimi, S. Louis) Design of multi-input multi-output systems with minimum sensitivity. **89i:93020**
Maekawa, Sadao *see* **Hinamoto, Takao; et al., 89g:93014**
Mertzios, B. G. *see* **Vachtsevanos, G.; et al.,** (Not in MR)
Michaletzky, György (*with* Tusnády, Gábor) On the state space representation of multidimensional time series. (Hungarian. English summary) **89m:93012**
Mittnik, Stefan Model reduction with alternatives to the standard Hankel matrix. **89h:93015**
Moog, Claude H. *see* **Conte, Giuseppe; et al., 89j:93017**
Nakano, Bunpei (*with* Iijima, Junichi; Sato, Ryo) Meaning of state-space representation and its relation to canonical form. II. Controllability and constructibility. **89e:93037**
Nunnari, G. *see* **Fortuna, L.; et al., 89e:93036**
Olsder, Geert J. (*with* de Vries, Remco E.) On an analogy of minimal realizations in conventional and discrete-event dynamic systems. **89g:93017**
Opdenacker, Philippe C. (*with* Jonckheere, Edmond) A state space approach to approximation by phase matching. **89c:93016**
Paraskevopoulos, P. N. *see* **Antoniou, G. E.; et al., 89e:93033**
Pavon, Michele *see* **Taylor, Thomas J.,** (Not in MR)
Perdon, A.-M. *see* **Conte, Giuseppe; et al., 89j:93017**
Poolla, K. R. (*with* Kamen, Edward W.; Khargonekar, Pramod P.) Polynomial and stable-proper factorizations of transfer-function matrices for linear time-varying systems. **89d:93020**
Saha, Banani (*with* Bandyopadhyay, Subhansu) Realization of Petri nets: a system theoretic approach. **89m:93013**
Salamon, Dietmar Realization theory in Hilbert space. **89k:93038**
Sandberg, Irwin W. Integral representations for linear maps. **89b:93031**
Sato, Ryo *see* **Nakano, Bunpei; et al., 89e:93037**
van der Schaft, A. J. On realization of nonlinear systems described by higher-order differential equations. **89b:93032a**
— Correction: "On realization of nonlinear systems described by higher-order differential equations". **89b:93032b**
Schwartz, Carla A. (*with* Dickinson, Bradley W.) Some finite-dimensional realization theory for nonlinear systems. **89c:93017**
Seo, Jin H. *see* **Emre, E., 89k:93034**
Shahruz, S. M. (*with* Behtash, S.) Balanced realizations of singularly perturbed systems. **89m:93014**
Shamir, T. The partial realization problem—an algebraic approach using polynomial models. **89c:93018**
— Partial realization of symmetric matrix rational functions. **89j:93018**
Shimonishi, Jiro *see* **Hinamoto, Takao; et al., 89g:93014**
Shokoohi, Shahriar Block-balancing of linear systems. **89b:93033**
Singh, Harpreet[1] *see* **Eydgahi, Ali M., 89k:93036**
Skelton, Robert E. Covariance approximation and control. **89c:93019**
— *see also* **Desai, U. B., 89h:93014**
Sreeram, V. (*with* Agathoklis, P.) Model reduction using balanced realizations with improved low frequency behaviour. **89k:93039**
Tan, Hua Lin *see* **Yang, Cheng Wu, 89g:93018**
Taylor, Thomas J. (*with* Pavon, Michele) A solution of the nonlinear stochastic realization problem. (Not in MR)
Therapos, Constantine P. Balancing transformations for unstable nonminimal linear systems. **89m:93015**
Tokaji, Isao (*with* Barnes, Casper W.) Minimum unit noise gain in nonminimal state-space realizations of digital filters. (Not in MR)
Torres, Francisco *see* **Acha, José I.,** (Not in MR)
Tumanov, M. P. *see* **Kusov, I. F.; et al., 89i:93019**
Tusnády, Gábor *see* **Michaletzky, György, 89m:93012**
Vachtsevanos, G. (*with* Mertzios, B. G.; Christodoulou, M. A.) Simplified realization for generalized transfer functions using modified Markov parameters. (Not in MR)
Varoufakis, S. J. *see* **Antoniou, G. E.; et al., 89e:93033**
Venetsanopoulos, Anastasios N. *see* **Hinamoto, Takao; et al., 89g:93014**
Verriest, Erik Projection techniques for model reduction. **89c:93021**
— A unified theory of model reduction via Gleason measures. **89c:93020**
de Vries, Remco E. *see* **Olsder, Geert J., 89g:93017**
Willems, J. C. Modelling, approximation and complexity of linear systems. **89c:93022**
Wright, J. R. *see* **Juang, J.-N.; et al.,** (Not in MR)
Wu, Jing Bo Bilaterally canonical normal symmetric realizations. **89b:93034**
— Some results on infinite-dimensional realization theory. **89d:93021**
Yang, Cheng Wu (*with* Tan, Hua Lin) The minimal realization problem for singular systems. (Chinese. English summary) **89g:93018**
Zhang, Q.-T. *see* **Lu, W. S.; et al., 89b:93030**
Zhang, Shou Yuan A new realization theory. **89e:93038**
— Polynomial matrix linearization and strongly irreducible realization for singular systems. **89k:93040**

Items with secondary classifications in 93B15

Ahmadi, M. *see* **Erfani, S.; et al., 89e:93047**
Anderson, B. D. O. (*with* Skelton, Robert E.) The generation of all q-Markov covers. (Not in MR)
Badawi, Faris A. (*with* Lindquist, Anders) A stochastic realization approach to the discrete-time Mayne-Fraser smoothing formula. **89d:93110**
Ball, Joseph A. (*with* Ran, A. C. M.) Hankel norm approximation of a rational matrix function in terms of its realization. (*see* **89b:93008**)
Baram, Yoram (*with* Shaked, U.) On the internal structure of minimal stochastic realizations. **89j:93015**
— (*with* Porat, B.) Identification of minimal order state space models from stochastic input-output data. **89a:93053**
Bencsik, I. (*with* Michaletzky, György) Generalized least squares innovation representation. (*see* **89d:00007**)
Bisiacco, Mauro (*with* Fornasini, Ettore; Marchesini, Giovanni) Controller design for 2D systems. **89d:93027**
— (*with* Fornasini, Ettore; Marchesini, Giovanni) 2-D partial fraction expansions and minimal commutative realizations. **89k:93046**
Bultheel, Adhemar *see* **Van Barel, M., 89h:15020**
Crouch, P. E. Graded vector spaces and applications to the approximation of nonlinear systems. **89j:93057**
Curtain, R. F. (*with* Zwart, H. J.) A note on spectral realisations for delay systems. (Not in MR)
— *see also* **Glover, Keith; et al., 89i:93067**
Deistler, Manfred Identifiability and causality in linear dynamic errors-in-variables systems. **89f:93041**
— *see also* **Hannan, E. J., 89m:60085**
Desai, U. B. *see* **King, A. M.; et al., 89e:93181**
Erfani, S. (*with* Ahmadi, M.; Ramachandran, Venkat) An explicit formula for the general bilinear transformation of polynomials with its application. **89e:93047**
Fadavi-Ardekani, Jalil *see* **Szczupak, Jacques; et al., 89c:94050**
Fliess, Michel Nonlinear control theory and differential algebra. **89j:93058**
Fornasini, Ettore *see* **Bisiacco, Mauro; et al., 89d:93027** *and* **89k:93046**
Fortuna, L. (*with* Gallo, Antonio; Nunnari, G.) Parametrization of MIMO systems in closed-loop balanced representation. **89e:93177**
Fuhrmann, Paul A. Orthogonal matrix polynomials and system theory. **89g:93025**
Fujimoto, Hideaki Realizability conditions of a class of two-variable reactance filter. **89k:94085**
Gallo, Antonio *see* **Fortuna, L.; et al., 89e:93177**
Gill, Jelena B. (*with* Petrović, Ljiljana) Causality and stochastic dynamic systems. **89d:93090**
Glover, Keith (*with* Curtain, R. F.; Partington, J. R.) Realisation and approximation of linear infinite-dimensional systems with error bounds. **89i:93067**
Gohberg, I. (*with* Rubinstein, Sorin) Cascade decompositions of rational matrix functions and their stability. **89b:93041**
— (*with* Kaashoek, M. A.; Lerer, L.) Nodes and realization of rational matrix functions: minimality theory and applications. **89e:93045**
Green, Michael Balanced stochastic realizations. **89g:93019**
— On inner-outer factorization. **89e:93048**
Hammer, Jacob The concept of rationality and stabilization of nonlinear systems. **89e:93155**
Hannan, E. J. (*with* Deistler, Manfred) ★ The statistical theory of linear systems. **89m:60085**
Heij, C. *see* **Willems, J. C., 89c:93025**
Hinamoto, Takao *see* **Shimonishi, Jiro; et al., 89m:93056**
Hunt, L. R. (*with* Su, Ren Jeng) Approximation of nonlinear systems having outputs. **89d:93032**
Kaashoek, M. A. *see* **Gohberg, I.; et al., 89e:93045**
Kasami, Tadao (*with* Lin, Shu) The binary weight distribution of the extended $(2^m, 2^m - 4)$ code of the Reed-Solomon code over GF(2^m) with generator polynomial $(x-\alpha)(x-\alpha^2)(x-\alpha^3)$. **89k:93016**
Kher, Lov Kumar (*with* Sorooshian, Soroosh) A predictive demand model for systems planning, using noisy realization theory. **89j:93129**
King, A. M. (*with* Desai, U. B.; Skelton, Robert E.) A generalized approach to q-Markov covariance equivalent realizations for discrete systems. **89e:93181**
Kobayashi, Toshihiro Input-output representations of spectral systems and adaptive controls. **89d:93060**
Krener, Arthur J. Reciprocal processes and the stochastic realization problem for acausal systems. **89c:93065**
— Acausal realization theory. I. Linear deterministic systems. **89d:93025**
— Realizations of reciprocal processes. **89i:60081**
Lerer, L. *see* **Gohberg, I.; et al., 89e:93045**
Li, Si Fu A state space form of model algorithmic control and algorithm improvement. (Chinese. English summary) **89c:93069**
Lin, Shu *see* **Kasami, Tadao, 89k:93016**
Lindner, D. K. Near aggregation, the dual GHR and pole-zero cancellation. **89j:93049**
Lindquist, Anders *see* **Badawi, Faris A., 89d:93110**
Linnemann, Arno A class of single-input single-output systems stabilizable by reduced-order controllers. **89e:93179**
Maekawa, Sadao *see* **Shimonishi, Jiro; et al., 89m:93056**
Marchesini, Giovanni *see* **Bisiacco, Mauro; et al., 89d:93027** *and* **89k:93046**
Michaletzky, György *see* **Bencsik, I., (89d:00007)**
Mitra, Sanjit K. *see* **Szczupak, Jacques; et al., 89c:94050**

Moses, Randolph L. Optimal approximate stochastic partial realization. (*see* **89b:93008**)
Nunnari, G. *see* **Fortuna, L.; et al., 89e:93177**
Paraskevopoulos, P. N. Techniques in model reduction for large-scale systems. **89h:49028**
Partington, J. R. *see* **Glover, Keith; et al., 89i:93067**
Petrović, Ljiljana *see* **Gill, Jelena B., 89d:93090**
Picci, Giorgio Application of stochastic realization theory to a fundamental problem of statistical physics. **89c:93066**
Porat, B. *see* **Baram, Yoram, 89a:93053**
Ramachandran, Venkat *see* **Erfani, S.; et al., 89e:93047**
Ran, A. C. M. *see* **Ball, Joseph A.**, (**89b:93008**)
Rubinstein, Sorin *see* **Gohberg, I., 89b:93041**
van Schuppen, J. H. Stochastic realization problems motivated by econometric modeling. **89c:93067**
Shaked, U. *see* **Baram, Yoram, 89j:93015**
Shimonishi, Jiro (*with* Hinamoto, Takao; Maekawa, Sadao) Inversion for 2-D systems. **89m:93056**
Skelton, Robert E. *see* **King, A. M.; et al., 89e:93181** *and* **Anderson, B. D. O.**, (Not in MR)
Sontag, Eduardo D. A remark on bilinear systems and moduli spaces of instantons. **89g:93022**
— Bilinear realizability is equivalent to existence of a singular affine differential i/o equation. **89m:93039**
Sorooshian, Soroosh *see* **Kher, Lov Kumar, 89j:93129**
Su, Ren Jeng *see* **Hunt, L. R., 89d:93032**
Szczupak, Jacques (*with* Mitra, Sanjit K.; Fadavi-Ardekani, Jalil) A computer-based synthesis method of structurally LBR digital allpass networks. **89c:94050**
Tsai, M.-C. *see* **Yeh, Fang Bo; et al., 89a:93019**
Van Barel, M. (*with* Bultheel, Adhemar) An algebraic method to solve the minimal partial realization problem for scalar sequences. **89h:15020**
Verma, Madanpal S. Coprime fractional representations and stability of nonlinear feedback systems. **89j:93061**
Willems, J. C. (*with* Heij, C.) Scattering theory and approximation of linear systems. **89c:93025**
— From time series to linear system. I. Finite-dimensional linear time invariant systems. **89b:93112**
— From time series to linear system. II. Exact modelling. **89b:93113**
— From time series to linear system. III. Approximate modelling. **89b:93114**
Wimmer, Harald K. Extremal problems for Hölder norms of matrices and realizations of linear systems. **89h:15036**
Yang, Ciann Dong *see* **Yeh, Fang Bo; et al., 89a:93019**
Yeh, Fang Bo (*with* Yang, Ciann Dong; Tsai, M.-C.) Unified approach to H^∞-optimization, Hankel approximation and balanced realization problems. **89a:93019**
Zhao, Ke You A realization method for singular systems. (Chinese. English summary) **89g:93023**
Zwart, H. J. *see* **Curtain, R. F.**, (Not in MR)

93B17 Transformation

Arkun, Yaman *see* **Calvet, Jean-Paul**, (Not in MR)
Bacon, Barton J. (*with* Schmidt, David K.) Multivariable frequency-weighted order reduction. (Not in MR)
Balsamo, J. Whitney *see* **Packard, Andy**, (Not in MR)
Bandyopadhyay, B. *see* **Lamba, S. S.; et al., 89e:93042**
Bao, Yuan L. *see* **Shieh, L. S.; et al., 89d:93023**
Bernstein, Dennis S. *see* **Haddad, Wassim M.**, (Not in MR)
Boothby, W. M. (*with* Dayawansa, Wijesuriya P.) Some global aspects of the feedback linearization problem. **89b:93035**
Calvet, Jean-Paul (*with* Arkun, Yaman) Feedforward and feedback linearization of nonlinear systems with disturbances. (Not in MR)
Castelein, R. (*with* Johnson, Alan) Constrained optimal control. **89k:93041**
Charlet, B. (*with* Levine, Jean; Marino, Riccardo) Two sufficient conditions for dynamic feedback linearization of nonlinear systems. **89e:93039**
Ch'ên, Mu Yang *see* **Huang, Ch'i**, (Not in MR)
Chen, You Gen (*with* Wang, Ru Qu) Optimal incomplete state feedback control for discrete systems. (Chinese. English summary) (Not in MR)
Chernyshenko, S. V. *see* **Chernyshenko, V. M.**, (**89f:00011**)
Chernyshenko, V. M. (*with* Chernyshenko, S. V.) Necessary conditions for optimality in the method of stepwise linearization in the control of nonlinear systems. (Russian) (*see* **89f:00011**)
Coleman, Norman P. *see* **Shieh, L. S.; et al., 89d:93023**
Dayawansa, Wijesuriya P. *see* **Boothby, W. M., 89b:93035**
Doran, Andrei L. Coordinate selection issues in the order reduction of linear systems. **89h:93016**
Drăgan, Vasile Model reduction for exponential stability of systems of nonlinear differential equations coupled with nonlinear difference equations with small step-size. **89d:93022**
Fliess, Michel Some remarks on nonlinear invertibility and dynamic state-feedback. **89c:93023**
Gao, Wei Bing (*with* Wu, Dong Nan) Global linearization of nonlinear systems. **89k:93042**
Gauthier, J.-P. *see* **Hammouri, H., 89i:93021**
Gorez, R. *see* **Lamba, S. S.; et al., 89e:93042**
Green, Michael Balanced stochastic realizations. **89g:93019**
Grizzle, Jessy W. (*with* Kokotović, P. V.) Feedback linearization of sampled-data systems. **89e:93040**
Haddad, Wassim M. (*with* Bernstein, Dennis S.) Robust reduced-order modeling via the optimal projection equations with Petersen-Hollot bounds. (Not in MR)
Hammouri, H. (*with* Gauthier, J.-P.) Bilinearization up to output injection. **89i:93021**
Hermann, Robert Invariants for feedback equivalence and Cauchy characteristic multifoliations of nonlinear control systems. **89e:93041**
Hsieh, Chê Kuang Some results on direct reduced order modeling of linear distributed parameter systems. (Chinese summary) (Not in MR)
Hsieh, Ch'ing Hsieh (*with* Huang, Ch'i) An algorithm for evaluating Schwarz form. (Chinese summary) (Not in MR)
Huang, Ch'i (*with* Ch'ên, Mu Yang) Stable reduction of linear discrete-time systems via multipoint squared-magnitude CFE. (Not in MR)
— (*with* Ch'ên, Mu Yang) Stable linear system reduction via a multipoint squared-magnitude continued-fraction expansion. (Not in MR)
— *see also* **Hsieh, Ch'ing Hsieh**, (Not in MR)
Jakubczyk, B. Feedback linearization of discrete-time systems. **89g:93020**
Johnson, Alan *see* **Castelein, R., 89k:93041**
Kaczorek, T. (*with* Świerkosz, M.) General model of n-D system with variable coefficients and its reduction to 1-D system with variable structure. **89j:93019**
Kokotović, P. V. *see* **Grizzle, Jessy W., 89e:93040**
Koval, Leslie R. *see* **Ramakrishnan, Jayant V.; et al., 89m:93016**
Krener, Arthur J. Normal forms for linear and nonlinear systems. **89b:93036**
Krishna, Hari Computational aspects of the bilinear transformation based algorithm for S-plane to Z-plane mapping. **89k:93043**
Lamba, S. S. (*with* Gorez, R.; Bandyopadhyay, B.) New reduction technique by step error minimization for multivariable systems. **89e:93042**
Levine, Jean *see* **Charlet, B.; et al., 89e:93039**
Li, Tsu T'ien *see* **Tsay, Shuh Chuan; et al., 89d:93024**
Marino, Riccardo *see* **Charlet, B.; et al., 89e:93039**
Moskalenko, A. I. Integral transformation of a parabolic optimal problem with a linear concentrated control. (Russian) **89g:93021**
Owens, T. J. Parametric state-feedback control with model reduction. (Not in MR)
Packard, Andy (*with* Balsamo, J. Whitney) A maximum modulus theorem for linear fractional transformations. (Not in MR)
Parker, S. R. *see* **Turajlić, Srbijanka R.**, (**89f:00025**)
Ramakrishnan, Jayant V. (*with* Rao, S. Vittal; Koval, Leslie R.) Reduced-order modeling of flexible structures. **89m:93016**
Rao, S. Vittal *see* **Ramakrishnan, Jayant V.; et al., 89m:93016**
Rugh, Wilson J. *see* **Wang, Jianliang, 89k:93044**
Scherer, Carsten Almost disturbance decoupling with stability by dynamic output feedback: a sufficient condition. **89e:93043**
Schmidt, David K. *see* **Bacon, Barton J.**, (Not in MR)
Shieh, L. S. (*with* Bao, Yuan L.; Coleman, Norman P.) Model transformations for state-space self-tuning control of multivariable stochastic systems. **89d:93023**
Sira-Ramirez, Hebertt J. Sliding-mode control on slow manifolds of DC-to-DC power converters. **89b:93037**
Sun, Cheng Qi Errata: "The relations between the state variables obtained by various decomposition methods for linear time-invariant systems" [Acta Automat. Sinica **10** (1984), no. 3, 195–202; MR 86a:93027]. (Chinese) **89e:93044b**
— *see also* **Tu, Feng Sheng, 89e:93044a**
Świerkosz, M. *see* **Kaczorek, T., 89j:93019**
Telegin, I. V. *see* **Udilov, V. V.**, (**89a:93001**)
Tsay, Shuh Chuan (*with* Wu, I. Long; Li, Tsu T'ien) Optimal control of linear time-delay systems via general orthogonal polynomials. **89d:93024**
Tu, Feng Sheng Comment: "The relations between the state variables obtained by various decomposition methods for linear time-invariant systems" [Acta Automat. Sinica **10** (1984), no. 3, 195–202; MR 86a:93027] by C. Q. Sun. (Chinese) **89e:93044a**
Turajlić, Srbijanka R. (*with* Parker, S. R.) A state space approach to the design of orthogonal models. (*see* **89f:00025**)
Udilov, V. V. (*with* Telegin, I. V.) Application of the diacoptics of G. Kron for the investigation of dynamical systems. (Russian) (*see* **89a:93001**)
Wang, Jianliang (*with* Rugh, Wilson J.) On the pseudo-linearization problem for nonlinear systems. **89k:93044**
Wang, Ru Qu *see* **Chen, You Gen**, (Not in MR)
Wu, Dong Nan *see* **Gao, Wei Bing, 89k:93042**
Wu, I. Long *see* **Tsay, Shuh Chuan; et al., 89d:93024**
Xu, Ke Kang Block decoupling and stable block decoupling of linear systems. (Chinese. English summary) **89j:93020**
Yatsenko, V. A. Mathematical model for the dynamics of a controllable gauge for mechanical translocations. (Russian) (*see* **89a:93001**)

Items with secondary classifications in 93B17

Abdul-Wahab, Abdul-Amir A. (*with* Zohdy, M. A.) Generalized linear transformations on the design of robust dynamic output feedback controllers. **89g:93035**
Abou-Kandil, H. *see* **Jódar, Lucas, 89e:90236**
Ahmadi, M. *see* **Erfani, S.; et al., 89e:93047**
Akram, M. Recursive transformation matrices for linear dynamic system models. **89c:62147**
Albertini, Francesca (*with* Runggaldier, Wolfgang J.) Logarithmic transformations for discrete-time, finite-horizon stochastic control problems. **89m:49044**
Altmann, Jürgen On the digital implementation of the rotation-invariant Fourier-Mellin transform. (German and Russian summaries) **89c:65138**
Bao, Yuan L. *see* **Shieh, L. S.; et al., 89k:93231**
Bartolini, G. (*with* Zolezzi, T.) Asymptotic linearization of uncertain systems by variable structure control. **89a:93023**
Behtash, S. *see* **Shahruz, S. M., 89m:93014**
Beneš, V. E. Using Hopf-Cole, gauge, and Girsanov transformations to reduce stochastic control problems to Gaussian integrations. **89c:93081**
Bertoni, G. *see* **Penati, M. E.; et al., 89f:93016**
Bily, Barbara Optimal control problem for first Fornasini-Marchesini model of 2-D systems. **89m:49059**
Chang, Fan Jên *see* **Shieh, L. S.; et al., 89k:93231**
Chen, Dong *see* **Tu, Feng Sheng, 89b:93029**
Chen, Zhao Lin (*with* Hong, Hui Min; Zhang, Ji Feng) Controllability of generalised dynamical systems with constrained control. **89i:93008**
Christensen, G. S. *see* **Soliman, S. A., 89e:93151**
Christodoulou, M. A. (*with* Mertzios, B. G.) Decoupling and pole placement in singular systems using state and output feedback. **89b:49049**

Cullen, D. J. Underlying algebraic framework of equivalence relations on linear systems. **89d:93028**
Da Prato, G. (*with* Zolésio, J.-P.) An optimal control problem for a parabolic equation in noncylindrical domains. **89d:49003**
Delosme, Jean-Marc (*with* Morf, Martin) Covariance decompositions via elementary transformations. Applications to filtering. **89a:94005**
Desoer, C. A. (*with* Kabuli, M. G.) Right factorization of a class of time-varying nonlinear systems. **89d:93053**
Elliott, Robert J. An approximate minimum principle for a partially observed Markov chain. **89d:93117**
Erfani, S. (*with* Ahmadi, M.; Ramachandran, Venkat) An explicit formula for the general bilinear transformation of polynomials with its application. **89e:93047**
Fujinaka, Toru (*with* Katayama, Tohru) Discrete-time optimal regulator with closed-loop poles in a prescribed region. **89g:93048**
Gajic, Z. *see* **Grodt, T., 89d:93039**
Gao, Wei Bing (*with* Wu, Dong Nan) On the optimization and global linearization of nonlinear mechanical systems. (Chinese. English summary) (Not in MR)
Gasanov, È. È. (*with* Kazymov, S. S.) Modal control of multidimensional objects. (Russian. English and Azerbaijani summaries) **89e:93089**
Goh, C. J. (*with* Teo, Kok-Lay) On minimax eigenvalue problems via constrained optimization. **89b:93063**
Gohberg, I. (*with* Kaashoek, M. A.; Lerer, L.) Nodes and realization of rational matrix functions: minimality theory and applications. **89e:93045**
Grodt, T. (*with* Gajic, Z.) The recursive reduced-order numerical solution of the singularly perturbed matrix differential Riccati equation. **89d:93039**
Hong, Hui Min *see* **Chen, Zhao Lin; et al., 89i:93008**
Jódar, Lucas (*with* Abou-Kandil, H.) Solution of coupled Riccati equations occurring in Nash games. **89e:90236**
Jonckheere, Edmond *see* **Opdenacker, Philippe C., 89b:93038**
Jovanov, Djurica The existence of an optimal control for a linear problem with a variable control domain. (Serbo-Croatian. English summary) **89m:49003**
Kaashoek, M. A. *see* **Gohberg, I.; et al., 89e:93045**
Kabuli, M. G. *see* **Desoer, C. A., 89d:93053**
Katayama, Tohru *see* **Fujinaka, Toru, 89g:93048**
Kazymov, S. S. *see* **Gasanov, È. È., 89e:93089**
Keller, Helmut Philipp Nonlinear observer design by transformation into a generalized observer canonical form. **89d:93013**
Kirsanov, B. V. Decomposition in problems of the investigation of an integrated system of active control, dominant control. (Russian) **89h:49026**
Korobov, V. I. (*with* Sklyar, G. M.) Time-optimality and the power moment problem. **89b:93056**
Krener, Arthur J. The asymptotic approximation of nonlinear filters by linear filters. **89d:93101**
Lee, E. B. (*with* Lu, W. S.; Żak, S. H.) Structural invariants of infinite-dimensional systems—systems with delays. **89a:93014**
— *see also* **Lu, W. S.; et al., 89b:93030**
Lerer, L. *see* **Gohberg, I.; et al., 89e:93045**
Li, Tsu T'ien (*with* Tsay, Shuh Chuan) Solution of linear dynamic systems with initial or boundary value conditions by shifted Chebyshev approximations. **89e:93051**
Lu, W. S. (*with* Lee, E. B.; Zhang, Q.-T.) Balanced approximation of two-dimensional and delay-differential systems. **89b:93030**
— *see also* **Lee, E. B.; et al., 89a:93014**
Mertzios, B. G. *see* **Christodoulou, M. A., 89b:49049**
Miller, D. F. Impulse response matching for z-domain identification with application to model order reduction. **89c:93036**
Mittnik, Stefan Model reduction with alternatives to the standard Hankel matrix. **89h:93015**
Morf, Martin *see* **Delosme, Jean-Marc, 89a:94005**
Nakamura, Yoshimasa Group actions on linear predictors for nonstationary processes. **89b:93044**
Nam, Kwanghee Linearization of discrete-time nonlinear systems and a canonical structure. **89k:93031**
Ohtani, Yoshiharu Classifications of nonlinear control systems with one control. (Japanese. English summary) **89e:93122**
Opdenacker, Philippe C. (*with* Jonckheere, Edmond) A contraction mapping preserving balanced reduction scheme and its infinity norm error bounds. **89b:93038**
Penati, M. E. (*with* Tibaldi, M.; Bertoni, G.) Reduced order regulators for large scale systems: a numerical implementation for stochastic and deterministic systems. **89f:93016**
Ramachandran, Venkat *see* **Erfani, S.; et al., 89e:93047**
Ray, Goshaidas On the decentralized stabilization of interconnected discrete time systems. **89c:93004**
Respondek, Witold Partial linearization, decompositions and fibre linear systems. **89c:49021**
Runggaldier, Wolfgang J. *see* **Albertini, Francesca, 89m:49044**
Schwarz, Helmut Stability of discrete-time equivalent homogeneous bilinear systems. **89a:93038**
Shafai, B. Parallel procedure for the design of observers in high-order multivariable systems. (Not in MR)
— *see also* **Tsui, Chia-Chi,** (Not in MR)
Shahruz, S. M. (*with* Behtash, S.) Balanced realizations of singularly perturbed systems. **89m:93014**
Shayman, Mark A. Homogeneous indices, feedback invariants and control structure theorem for generalized linear systems. **89d:93049**
Shieh, L. S. (*with* Bao, Yuan L.; Chang, Fan Jên) State-space self-tuning regulators for general multivariable stochastic systems. **89k:93231**
Skelton, Robert E. *see* **de Villemagne, Christian, 89d:93047**
Sklyar, G. M. *see* **Korobov, V. I., 89b:93056**
Soliman, S. A. (*with* Christensen, G. S.) Optimization of reservoirs in series on a river with a nonlinear storage curve for long-term regulation. **89e:93151**
Su, Xue Cheng *see* **Wang, Ji Hong, 89i:93056**
Teo, Kok-Lay *see* **Goh, C. J., 89b:93063**
Therapos, Constantine P. Balancing transformations for unstable nonminimal linear systems. **89m:93015**
Tibaldi, M. *see* **Penati, M. E.; et al., 89f:93016**
Tsay, Shuh Chuan *see* **Li, Tsu T'ien, 89e:93051**
Tsui, Chia-Chi Comments on: "Parallel procedure for the design of observers in high-order multivariable systems" [Internat. J. Control **47** (1988), no. 5, 1489–1496] by B. Shafai. (Not in MR)
Tu, Feng Sheng (*with* Chen, Dong) Jordan invariants and canonical forms for linear multivariable systems. (Chinese. English summary) **89b:93029**
de Villemagne, Christian (*with* Skelton, Robert E.) Controller reduction using canonical interactions. **89d:93047**
Wang, Ji Hong (*with* Su, Xue Cheng) A new quasi-analytical method for designing quadratic performance target optimal systems. (Chinese. English summary) **89i:93056**
Wong, K. H. A control parameterization algorithm for nonlinear time-lag optimal control problems. **89k:34138**
Wu, Dong Nan *see* **Gao, Wei Bing,** (Not in MR)
Yamada, Takeo A network flow algorithm to find an elementary i/o matching. **89d:90097**
Żak, S. H. *see* **Lee, E. B.; et al., 89a:93014**
Zhang, Ji Feng *see* **Chen, Zhao Lin; et al., 89i:93008**
Zhang, Q.-T. *see* **Lu, W. S.; et al., 89b:93030**
Zhang, Weijian An analytical solution of the Fokker-Planck equation in the phase-locked loop transient analysis. **89k:93233**
Zohdy, M. A. *see* **Abdul-Wahab, Abdul-Amir A., 89g:93035**
Zolésio, J.-P. *see* **Da Prato, G., 89d:49003**
Zolezzi, T. *see* **Bartolini, G., 89a:93023**

93B20 Minimal systems representations

Aravena, J. L. (*with* Porter, W. A.) State representations for m-D systems with generalized causality structures. **89c:93024**
Bidyuk, P. I. An algorithm for order reduction of an autoregression model of a moving average. (Russian) **89k:93045**
Bisiacco, Mauro (*with* Fornasini, Ettore; Marchesini, Giovanni) 2-D partial fraction expansions and minimal commutative realizations. **89k:93046**
Fornasini, Ettore *see* **Bisiacco, Mauro; et al., 89k:93046**
Gohberg, I. (*with* Kaashoek, M. A.) Various minimalities for systems with boundary conditions and integral operators. **89h:93017**
— (*with* Kaashoek, M. A.; Lerer, L.) Nodes and realization of rational matrix functions: minimality theory and applications. **89e:93045**
Heij, C. *see* **Willems, J. C., 89c:93025**
Jonckheere, Edmond *see* **Opdenacker, Philippe C., 89b:93038**
Kaashoek, M. A. *see* **Gohberg, I.; et al., 89e:93045** *and* **89h:93017**
Krener, Arthur J. Acausal realization theory. I. Linear deterministic systems. **89d:93025**
Lerer, L. *see* **Gohberg, I.; et al., 89e:93045**
Marchesini, Giovanni *see* **Bisiacco, Mauro; et al., 89k:93046**
Opdenacker, Philippe C. (*with* Jonckheere, Edmond) A contraction mapping preserving balanced reduction scheme and its infinity norm error bounds. **89b:93038**
Porter, W. A. *see* **Aravena, J. L., 89c:93024**
Sontag, Eduardo D. A remark on bilinear systems and moduli spaces of instantons. **89g:93022**
Willems, J. C. (*with* Heij, C.) Scattering theory and approximation of linear systems. **89c:93025**
Zhao, Ke You A realization method for singular systems. (Chinese. English summary) **89g:93023**

Items with secondary classifications in 93B20

Anderson, B. D. O. (*with* Skelton, Robert E.) The generation of all q-Markov covers. (Not in MR)
Antoulas, A. C. On the structure of matrix formal power series and the realization problem in linear systems. (*see* **89b:93008**)
Baram, Yoram (*with* Porat, B.) Identification of minimal order state space models from stochastic input-output data. **89a:93053**
Chidambara, M. R. *see* **Satyanarayana, P. S.,** (Not in MR)
Cullen, D. J. Underlying algebraic framework of equivalence relations on linear systems. **89d:93028**
Desai, U. B. (*with* Hsu, Chieh Su) Minimum phase model reduction of deterministic systems via stochastic balancing. **89g:93012**
Eitelberg, Eduard Continuous-time system representation with exact macro-difference expressions. (Not in MR)
Hakimi, S. Louis *see* **Lutz, William J., 89i:93020**
Hsu, Chieh Su *see* **Desai, U. B., 89g:93012**
Lee, E. B. *see* **Lu, W. S.; et al., 89b:93030**
Lu, W. S. (*with* Lee, E. B.; Zhang, Q.-T.) Balanced approximation of two-dimensional and delay-differential systems. **89b:93030**
Lutz, William J. (*with* Hakimi, S. Louis) Design of multi-input multi-output systems with minimum sensitivity. **89i:93020**
Mittnik, Stefan Model reduction with alternatives to the standard Hankel matrix. **89h:93015**
Moog, Claude H. Nonlinear decoupling and structure at infinity. **89m:93035**
Porat, B. *see* **Baram, Yoram, 89a:93053**
Satyanarayana, P. S. (*with* Chidambara, M. R.) Sub-optimal control via lower order generalized aggregated models. (Not in MR)
Shamir, T. Partial realization of symmetric matrix rational functions. **89j:93018**
Shokoohi, Shahriar Block-balancing of linear systems. **89b:93033**
Skelton, Robert E. *see* **Anderson, B. D. O.,** (Not in MR)
Tan, Hua Lin *see* **Yang, Cheng Wu, 89g:93018**
Theodorou, N. *see* **Tzafestas, Spyros G., 89h:93013**
Tzafestas, Spyros G. (*with* Theodorou, N.) An inductive approach to the state space representation of multidimensional systems. **89h:93013**

Willems, J. C. Modelling, approximation and complexity of linear systems. **89c:93022**
Wimmer, Harald K. State group realizations of matrices of rational numbers. **89a:15012**
Yang, Cheng Wu (*with* Tan, Hua Lin) The minimal realization problem for singular systems. (Chinese. English summary) **89g:93018**
Zhang, Q.-T. *see* **Lu, W. S.; et al., 89b:93030**

93B25 Algebraic methods

Ahmadi, M. *see* **Erfani, S.; et al., 89e:93047**
Aliev, Fikret Akhmadali oglu (*with* Bordyug, B. A.; Larin, V. B.) Frequency methods for solving matrix algebraic Riccati equations. (Russian) **89h:93018**
— (*with* Bordyug, B. A.; Larin, V. B.) Frequency methods of solving matrix algebraic Riccati equations. **89d:93026**
Amin, M. H. (*with* Hassan, M. M.) Time-optimal output regulators for linear multivariable discrete-time systems. II. All classes of right-invertible systems. **89k:93050**
— *see also* **Hassan, M. M., 89k:93049**
Angeles, J. *see* **Zung, E., 89g:93027**
Bakri, Talal M. Generalized Bezoutians and invariant subspaces. (Not in MR)
Ballico, Edoardo (*with* Struppa, Daniele) Minimal degree solutions for the Bezout equation. **89b:93039**
Bartosiewicz, Zbigniew On polynomial continuous time systems. **89c:93026**
Beelen, Th. G. J. (*with* van den Hurk, G. J.; Praagman, C.) A new method for computing a column reduced polynomial matrix. (Not in MR)
Bisiacco, Mauro (*with* Fornasini, Ettore; Marchesini, Giovanni) Controller design for 2D systems. **89d:93027**
Bittanti, Sergio (*with* Colaneri, Patrizio; De Nicolao, Giuseppe) Two techniques for the solution of the discrete-time periodic Riccati equation. **89i:93022**
Bordyug, B. A. *see* **Aliev, Fikret Akhmadali oglu; et al., 89d:93026** *and* **89h:93018**
Brewer, James W. (*with* Klingler, Lee) Pole shifting for families of systems: the dimension one case. **89k:93047**
Brierley, S. D. (*with* Lee, E. B.) Coefficient assignment for generalized linear systems. (Russian and Polish summaries) **89b:93040**
Cheng, Fan Jên *see* **Ling, Yen Lei; et al.,** (Not in MR)
Chou, Jyh Horng (*with* Horng, Ing Rong) Algebraic method for the design of output deadbeat controller. **89e:93046**
Colaneri, Patrizio *see* **Bittanti, Sergio; et al., 89i:93022**
Cullen, D. J. Underlying algebraic framework of equivalence relations on linear systems. **89d:93028**
De Nicolao, Giuseppe *see* **Bittanti, Sergio; et al., 89i:93022**
Desoer, C. A. (*with* Gündeş, A. N.) Algebraic theory of linear time-invariant feedback systems with two-input two-output plant and compensator. **89c:93027**
Eldem, Vasfi (*with* Özgüler, A. Bülent) Disturbance decoupling problems by measurement feedback: a characterization of all solutions and fixed modes. **89d:93029**
— *see also* **Özgüler, A. Bülent,** (Not in MR)
Erfani, S. (*with* Ahmadi, M.; Ramachandran, Venkat) An explicit formula for the general bilinear transformation of polynomials with its application. **89e:93047**
Evangelatos, D. S. (*with* Nicholson, H.) Reachability matrix and relation to large-scale systems. **89g:93024**
Faĭbusovich, L. E. Matrix Riccati inequality: existence of solutions. **89k:93048**
Fettweis, A. A new approach to Hurwitz polynomials in several variables. **89d:93030**
Foo, Yung Kuan *see* **Postlethwaite, I., (89b:93008)**
Fornasini, Ettore *see* **Bisiacco, Mauro; et al., 89d:93027**
Fuhrmann, Paul A. Orthogonal matrix polynomials and system theory. **89g:93025**
Gan, You Chen Analytical methods in the study of the response characteristic function of a system. (Chinese. English summary) (Not in MR)
Girko, V. L. (*with* Mysak, R. T.; Onsha, Yu. M.) The stationary Riccati equation for a matrix regularizer in the method of least squares. (Russian) **89j:93021**
Godunov, S. K. Sous-espaces invariants des opérateurs linéaires. Point de vue et méthodes numériques nouveaux. (English summary) [Invariant subspaces of linear operators. A new approach with new numerical methods] (*see* **89c:00031**)
Gohberg, I. (*with* Rubinstein, Sorin) Cascade decompositions of rational matrix functions and their stability. **89b:93041**
Green, Michael On inner-outer factorization. **89e:93048**
Grujić, Ljubomir T. Algebraic conditions for absolute tracking control of Lurie systems. **89j:93022**
Gündeş, A. N. *see* **Desoer, C. A., 89c:93027**
Hassan, M. M. (*with* Amin, M. H.) Time-optimal output regulators for linear multivariable discrete-time systems. I. Right invertible decouplable systems. **89k:93049**
— *see also* **Amin, M. H., 89k:93050**
Hernández, Vicente García (*with* Urbano, Ana) Extended inertia theorems for discrete-time periodic Lyapunov and Riccati equations. **89j:93023**
Hong, Yi Guang (*with* Huang, Lin) Small disturbance problems associated with the algebraic Riccati equations of discrete linear time-invariant systems. (Chinese. English summary) (Not in MR)
Horng, Ing Rong *see* **Chou, Jyh Horng, 89e:93046**
Hosoe, S. (*with* Zhang, Feifei) An elementary state space approach to RH^∞ optimal control. **89m:93017**
Huang, Ch'i *see* **Shyu, Kuo Kai, 89e:93053**
Huang, Lin *see* **Hong, Yi Guang,** (Not in MR)
Hung, Y. S. H^∞ interpolation of rational matrices. **89i:93023**
van den Hurk, G. J. *see* **Beelen, Th. G. J.; et al.,** (Not in MR)
Ichikawa, K. Deadbeat characteristic of one-step-ahead control. **89m:93018**
Inouye, Yujiro (*with* Kato, Koichi) Matrix-fraction descriptions and the McMillan form of a transfer function meromorphic in the unit disk. **89k:93051**
Ioannou, P. A. *see* **Tao, Gang, 89i:93026**
Izmailov, R. N. Eigenvectors of matrices of asymptotic identifiers. **89e:93049**
Janssen, Peter H. M. General results on the McMillan degree and the Kronecker indices of ARMA and MFD models. **89e:93050**
Kaczorek, T. Zero-degree solutions to the bilateral polynomial matrix equations. (Russian summary) **89h:93019**
Kato, Koichi *see* **Inouye, Yujiro, 89k:93051**
Khargonekar, Pramod P. *see* **Zhou, Kemin, 89e:93056**
Klingler, Lee *see* **Brewer, James W., 89k:93047**
Komaroff, N. Simultaneous eigenvalue lower bounds for the Riccati matrix equation. (Not in MR)
Kuznetsov, Yu. I. ★ Дополнительные якобиевы матрицы. (Russian) [Complementary Jacobi matrices] **89k:93052**
Kwakernaak, Huibert A polynomial approach to minimax frequency domain optimization. **89c:93028**
Larin, V. B. *see* **Aliev, Fikret Akhmadali oglu; et al., 89d:93026** *and* **89h:93018**
Lee, E. B. *see* **Brierley, S. D., 89b:93040**
Li, Tsu T'ien (*with* Tsay, Shuh Chuan) Solution of linear dynamic systems with initial or boundary value conditions by shifted Chebyshev approximations. **89e:93051**
Ling, Yen Lei (*with* Cheng, Fan Jên; Wang, Bor Chyun) Partial fraction expansions for transfer matrices and matrix fraction descriptions of multivariable systems. (Not in MR)
Lü, Yong Zai *see* **Zhu, Jian Min, 89k:93056**
Marchesini, Giovanni *see* **Bisiacco, Mauro; et al., 89d:93027**
Mehrmann, V. (*with* Tan, Engkan Kusnadi) Defect correction methods for the solution of algebraic Riccati equations. (Not in MR)
Misra, Pradeep (*with* Patel, R. V.) A determinant identity and its applications in evaluating frequency response matrices. (*see* **89f:00025**)
Misteri, F. *see* **Wang, Alan P., 89e:93054**
Mysak, R. T. *see* **Girko, V. L.; et al., 89j:93021**
Nassirharand, A. (*with* Patwardhan, A.) A fast algorithm for obtaining low-order coprime fractional representations of SISO systems. (Not in MR)
Nett, Carl N. (*with* Uthgenannt, James A.) An explicit formula and an optimal weight for the 2-block structured singular value interaction measure. **89i:93024**
Newmann, M. M. *see* **Roberts, A. P., 89i:93025**
Nicholson, H. *see* **Evangelatos, D. S., 89g:93024**
Onsha, Yu. M. *see* **Girko, V. L.; et al., 89j:93021**
Özgüler, A. Bülent (*with* Eldem, Vasfi) Set of open-loop block-diagonalizers of transfer matrices. (Not in MR)
— *see also* **Eldem, Vasfi, 89d:93029**
Panasyuk, A. I. Algebraic operations that are consistent with the dynamics of continuous nonlinear control systems. **89e:93052**
— Algebraic operations that are consistent with a dynamical nonlinear discrete control system. (Russian) **89k:93053**
Patel, R. V. *see* **Misra, Pradeep, (89f:00025)**
Patwardhan, A. *see* **Nassirharand, A.,** (Not in MR)
Postlethwaite, I. (*with* Foo, Yung Kuan) All solutions, all pass form solutions and the "best" solution to an H^∞ optimization problem in robust control. (*see* **89b:93008**)
Praagman, C. *see* **Beelen, Th. G. J.; et al.,** (Not in MR)
Qin, Hua Shu On the asymptotic expression of a solution of uniformly positive-definite symmetric solution to time-varying Riccati matrix differential equation. (Russian summary) **89b:93042**
Ramachandran, Venkat *see* **Erfani, S.; et al., 89e:93047**
Ran, A. C. M. (*with* Vreugdenhil, R.) Existence and comparison theorems for algebraic Riccati equations for continuous- and discrete-time systems. **89a:93015**
Roberts, A. P. (*with* Newmann, M. M.) Polynomial optimization of stochastic feedback control for stable plants. **89i:93025**
Rubinstein, Sorin *see* **Gohberg, I., 89b:93041**
Shamir, T. On the discrete relationship between matrix continued fractions and the maximal (A, B)-invariant subspace in $\operatorname{Ker} C$. (*see* **89f:00025**)
Shyu, Kuo Kai (*with* Huang, Ch'i) Optimal control of linear time-varying discrete systems via discrete Legendre orthogonal polynomials. **89e:93053**
Struppa, Daniele *see* **Ballico, Edoardo, 89b:93039**
Styczeń, Krystyn Algebraic approximation of smooth optimal cyclic control problems. **89k:93054**
Tan, Engkan Kusnadi *see* **Mehrmann, V.,** (Not in MR)
Tao, Gang (*with* Ioannou, P. A.) Strictly positive real matrices and the Lefschetz-Kalman-Yakubovich lemma. **89i:93026**
Tsay, Shuh Chuan *see* **Li, Tsu T'ien, 89e:93051**
Urbano, Ana *see* **Hernández, Vicente García, 89j:93023**
Uthgenannt, James A. *see* **Nett, Carl N., 89i:93024**
Van Loan, Charles The block Jacobi method for computing the singular value decomposition. **89b:93043**
Volgin, L. N. Application of polynomial calculus to problems of the theory of automatic control. **89k:93055**
Vreugdenhil, R. *see* **Ran, A. C. M., 89a:93015**
Wang, Alan P. (*with* Misteri, F.) Star-diagonalization of 3×3 scattering matrices. **89e:93054**
Wang, Bor Chyun *see* **Ling, Yen Lei; et al.,** (Not in MR)
Wang, En Ping (*with* Yan, Wei Yong) On the strictly positive real lemma. (Chinese summary) **89a:93016**
Wang, Sheng Guo A synthesis algorithm for general compensation with invariant asymptotic behavior of the multivariable root locus. (Chinese. English summary) **89e:93055**
Yan, Wei Yong *see* **Wang, En Ping, 89a:93016**
Zhang, Feifei *see* **Hosoe, S., 89m:93017**
Zhou, Kemin (*with* Khargonekar, Pramod P.) An algebraic Riccati equation approach to H^∞ optimization. **89e:93056**
Zhu, Jian Min (*with* Lü, Yong Zai) Application of single-step method of block-pulse functions to the optimal control of linear distributed-parameter systems. **89k:93056**
Zhu, Si Quan A graph metric for a class of MIMO linear distributed systems. **89g:93026**
Zung, E. (*with* Angeles, J.) Simulation of finite-dimensional linear dynamical systems using zero-order holds and numerical-stabilization methods. **89g:93027**

Items with secondary classifications in 93B25

Abou-Kandil, H. *see* **Jódar, Lucas, 89e:90236**
Ammar, Gregory S. (*with* Gragg, William B.) The implementation and use of the generalized Schur algorithm. **89b:65112**

Ando, Tsuyoshi ★ Matrix quadratic equations. **89c:15019**
Ball, Joseph A. *see* **Helton, J. William; et al., 89f:47001**
Balsamo, J. Whitney *see* **Packard, Andy,** (Not in MR)
Barnett, Stephen Euclidean remainders for generalized polynomials. **89e:12006**
Bart, H. (*with* Hoogland, H.) Complementary triangular forms of pairs of matrices, realizations with prescribed main matrices, and complete factorization of rational matrix functions. **89c:15017**
Bien, Zeungnam *see* **Lee, Haiyoung, 89e:15009**
Bisiacco, Mauro (*with* Fornasini, Ettore; Marchesini, Giovanni) 2-D partial fraction expansions and minimal commutative realizations. **89k:93046**
Bistritz, Yuval (*with* Kailath, Thomas) Inversion and factorization of non-Hermitian quasi-Toeplitz matrices. **89b:65067**
Boĭchuk, B. G. Deductive synthesis of linear automatic control systems. (Not in MR)
Botsaris, C. A. (*with* Tzafestas, Spyros G.) Stabilization and optimal control of symmetrically ε-coupled bilinear systems via quadratic state feedback controllers. **89k:93162**
Chamilothoris, G. (*with* Renaud, P. Y.; Sévelý, Y.; Vigie, P.) Adaptive predictive control of a multistage fermentation process. **89g:92008**
Chan, W. L. (*with* Jin, Xiao Qing) Singular extremal control problem with time delay. **89d:34123**
Chang, Jung Yü (*with* Yang, Shwu Yien; Wang, Mao Ling) Parameter identification of time-varying system via generalized orthogonal polynomials. **89e:93064**
— *see also* **Wang, Mao Ling; et al., 89d:93038**
Chen, Chao Kuang *see* **Yang, Ching Yu; et al., 89a:45023**
Ch'ên, Ch'i Chung *see* **Huang, Ch'i; et al., 89k:93140**
Chen, Chieh-Li *see* **Yang, Ching Yu; et al., 89a:45023**
Cheremenskiĭ, Aleksandr G. Stabilization of linear stationary distributed systems with fixed space variables. (Russian. English and Bulgarian summaries) (Not in MR)
Chou, Yi Shyong *see* **Liu, Ch'ing T'ien, 89f:93010**
Christodoulou, M. A. *see* **Vachtsevanos, G.; et al.,** (Not in MR)
Chung, Hung Yuan (*with* Sun, Yü I.) Taylor series direct method for variational problems. **89a:49010**
— (*with* Sun, Yü I.) Analysis of time-delay systems using an alternative technique. **89e:34133**
Cobb, J. Daniel Toward a theory of robust compensation for systems with unknown parasitics. **89m:93024**
Codenotti, B. (*with* Lotti, G.) A fast algorithm for the division of two polynomial matrices. (Not in MR)
Corless, M. J. *see* **Walcott, B. L.; et al., 89b:93027** *and* **Zeitz, M., 89b:93028**
Crouch, P. E. *see* **Silva Leite, F., 89b:93023**
Curtain, R. F. (*with* Glover, Keith) Robust stabilization of infinite-dimensional systems by finite-dimensional controllers: derivations and examples. **89d:93075**
Dauphin-Tanguy, G. *see* **Rotella, F., 89k:93068**
De Moor, Bart (*with* Vandewalle, Joos) An adaptive singular value decomposition algorithm based on generalized Chebyshev recursions. **89e:65043**
Desoer, C. A. (*with* Gündeş, A. N.) Bicoprime factorizations of the plant and their relation to right- and left-coprime factorizations. (Not in MR)
Dyumin, A. F. (*with* Egorov, S. N.) Analytic methods and algorithms for solving ordinary differential equations of the theory of linear systems. (Russian) **89h:34007**
— (*with* Egorov, S. N.) Reduction of the matrix Riccati differential equation in the problem of optimal linear estimation of the state of a partially observable dynamic object. (Russian) **89j:93115**
Egorov, S. N. *see* **Dyumin, A. F., 89h:34007** *and* **89j:93115**
El Jaï, A. (*with* Pritchard, A. J.) ★ Sensors and controls in the analysis of distributed systems. **89b:93002**
Engwerda, Jacob Christiaan ★ Regulation of linear discrete time-varying systems. **89g:93061**
Fairman, F. W. Jordan form realization via singular value decomposition. (Not in MR)
Feliachi, Ali Linear feedback control with prespecified performance measure. **89d:49034**
Fliess, Michel Some remarks on nonlinear invertibility and dynamic state-feedback. **89c:93023**
Fornasini, Ettore *see* **Bisiacco, Mauro; et al., 89k:93046**
Gajic, Z. *see* **Grodt, T., 89d:93039**
Geerts, Ton A necessary and sufficient condition for solvability of the linear-quadratic control problem without stability. **89d:49035**
Glover, Keith *see* **Curtain, R. F., 89d:93075**
Gostev, V. I. Determination of optimal controls for linear controlled objects in digital-regulator control systems. (Not in MR)
Gragg, William B. *see* **Ammar, Gregory S., 89b:65112**
Green, Michael Balanced stochastic realizations. **89g:93019**
Grimble, M. J. Single versus double Diophantine equation debate. Comments on: "Polynomial approach to Wiener filtering" [Internat. J. Control **47** (1988), no. 3, 681–696; MR 89a:93050] by A. P. Roberts and M. M. Newmann. **89j:93119**
— *see also* **Šebek, M.; et al., 89e:93228**
Grodt, T. (*with* Gajic, Z.) The recursive reduced-order numerical solution of the singularly perturbed matrix differential Riccati equation. **89d:93039**
Gündeş, A. N. *see* **Desoer, C. A.,** (Not in MR)
Guo, Lei (*with* Xia, Lige; Liu, Yi) Recursive algorithm for the computation of the H^∞-norm of polynomials. **89i:93043**
Halanay, Aristide (*with* Tudor, Constantin; Morozan, T.) Tracking almost periodic signals under white noise perturbations. **89d:49016**
Han, Jing Qing *see* **Liu, Yong Qing; et al.,** (Not in MR)
Helton, J. William (*with* Ball, Joseph A.; Johnson, Charles Royal; Palmer, John N.) ★ Operator theory, analytic functions, matrices, and electrical engineering. **89f:47001**
Hershkowitz, Daniel *see* **Shasha, Dafna, 89e:15015**
Hmamed, A. A matrix inequality. (Not in MR)
Hollot, C. V. Bound invariant Lyapunov functions: a means for enlarging the class of stabilizable uncertain systems. **89f:93020**
Hoogland, H. *see* **Bart, H., 89c:15017**
Huang, Ch'i (*with* Ch'ên, Ch'i Chung; Shih, Yen P'ing) Analysis and optimal control of discrete time-varying systems via Hahn polynomials. (Chinese summary) **89k:93140**
— *see also* **Shyu, Kuo Kai,** (Not in MR)
Huang, Lin Some new results in multivariable linear system. Some achievements in China, 1980–1984. **89c:93048**
Huillet, T. (*with* Monin, André-Paul-Valentin; Salut, G.) Lie algebraic canonical representations in nonlinear control systems. **89d:93018**
Hunt, K. J. General polynomial solution to the optimal feedback/feedforward stochastic tracking problem. **89g:93110**
— A single-degree-of-freedom polynomial solution to the optimal feedback/feedforward stochastic tracking problem. **89e:93221**
— (*with* Šebek, M.) Optimal multivariable regulation with disturbance measurement feedforward. (Not in MR)
— *see also* **Šebek, M.; et al., 89e:93228**
Izhvanov, Yu. L. *see* **Kusov, I. F.; et al., 89i:93019**
Jan, Yih-Jena *see* **Wang, Mao Ling; et al., 89d:93038**
Jin, Wei Yan *see* **Liu, Yong Qing; et al.,** (Not in MR)
Jin, Xiao Qing *see* **Chan, W. L., 89d:34123**
Jiong, Jiang *see* **Ning, Jiang,** (Not in MR)
Jódar, Lucas (*with* Abou-Kandil, H.) Solution of coupled Riccati equations occurring in Nash games. **89e:90236**
Johnson, Charles Royal *see* **Helton, J. William; et al., 89f:47001**
Jonckheere, Edmond *see* **Opdenacker, Philippe C., 89b:93038**
Kaczorek, T. A new method for finding of row minimal degree solution to the matrix polynomial equation $A(s)X(s)+B(s)Y(s)=C(s)$. (Russian summary) **89c:15026**
Kailath, Thomas *see* **Bistritz, Yuval, 89b:65067**
Kamen, Edward W. *see* **Poolla, K. R.; et al., 89d:93020**
Khargonekar, Pramod P. *see* **Poolla, K. R.; et al., 89d:93020**
Kharitonov, V. L. *see* **Sokolova, E. Yu., 89i:15004**
Khoroshilov, V. S. *see* **Zakrzhevskiĭ, A. E., 89k:49027**
Khristov, Nikolaĭ D. *see* **Petkov, Petko Khr.; et al., 89e:65048**
Kimura, Hidenori Positive partial realization of covariance sequences. (*see* **89b:93008**)
Komaroff, N. Matrix inequalities applicable to estimating solution sizes of Riccati and Lyapunov equations. (Not in MR)
Konstantinov, Mikhail M. *see* **Petkov, Petko Khr.; et al., 89e:65048**
Kotta, Ülle A group-theoretic approach to the observability of nonlinear dynamical systems with discrete time. (Russian) **89b:93025**
Kusov, I. F. (*with* Tumanov, M. P.; Izhvanov, Yu. L.) An algebraic approach to the analysis of nonstationary dynamical systems. (Russian) **89i:93019**
Lamnabhi-Lagarrigue, F. Singular optimal control problems: on the order of a singular arc. **89b:49044**
Lebedev, A. L. Ideal observability of discrete systems with delay. (Russian) **89b:93026**
Lee, E. B. (*with* Lu, W. S.; Żak, S. H.) Structural invariants of infinite-dimensional systems—systems with delays. **89a:93014**
Lee, Haiyoung (*with* Bien, Zeungnam) Method of computing the inverse of a matrix whose elements are a linear combination of Walsh functions. **89e:15009**
Li, Tsu T'ien (*with* Tsay, Shuh Chuan) Approximate solutions for linear time-delay systems via the Padé approximation and orthogonal polynomials expansions. **89h:34071**
— *see also* **Tsay, Shuh Chuan, 89b:65162** *and* **89d:93024**
Liu, Ch'ing T'ien (*with* Chou, Yi Shyong) Successive parameter estimation of continuous dynamic systems. **89f:93010**
Liu, Yi *see* **Guo, Lei; et al., 89i:93043**
Liu, Yong Qing (*with* Han, Jing Qing; Jin, Wei Yan; Qin, Yuan Xun) A criterion for all the roots of an algebraic equation to have negative real parts. (Chinese. English summary) (Not in MR)
Lotti, G. *see* **Codenotti, B.,** (Not in MR)
Lu, W. S. *see* **Lee, E. B.; et al., 89a:93014**
Luenberger, David G. Boundary recursion for descriptor variable systems. (Not in MR)
Maione, Bruno (*with* Turchiano, Biagio) Characterization of decoupling structural zeros of Rosenbrock's polynomial matrices. **89b:93061**
Marchesini, Giovanni *see* **Bisiacco, Mauro; et al., 89k:93046**
Mazko, A. G. On a problem of the distribution of the spectrum of a regular matrix pencil. (Russian) **89a:15008**
Mertzios, B. G. *see* **Vachtsevanos, G.; et al.,** (Not in MR)
Monin, André-Paul-Valentin *see* **Huillet, T.; et al., 89d:93018**
Morozan, T. *see* **Halanay, Aristide; et al., 89d:49016**
Mosca, E. (*with* Zappa, Giovanni) Matrix fraction solution to the discrete-time LQ stochastic tracking and servo problems. (Not in MR)
Murota, Kazuo Refined study on structural controllability of descriptor systems by means of matroids. **89g:93005**
Newmann, M. M. *see* **Roberts, A. P., 89a:93050** *and* **Grimble, M. J., 89j:93119**
Nguyễn Huỳnh Phán Topology of the spaces of symmetric linear systems. (Vietnamese. English summary) **89m:93036**
Nieuwenhuis, J. W. (*with* Willems, J. C.) Continuity of dynamical systems: a system theoretic approach. **89c:93003**
Ning, Jiang (*with* Jiong, Jiang) Parameter or nonparameter identification of distributed parameter systems via block-pulse functions. (Not in MR)
Opdenacker, Philippe C. (*with* Jonckheere, Edmond) A contraction mapping preserving balanced reduction scheme and its infinity norm error bounds. **89b:93038**
Packard, Andy (*with* Balsamo, J. Whitney) A maximum modulus theorem for linear fractional transformations. (Not in MR)
Palmer, John N. *see* **Helton, J. William; et al., 89f:47001**
Petersen, Ian R. Some new results on algebraic Riccati equations arising in linear quadratic differential games and the stabilization of uncertain linear systems. **89h:90274**
Petkov, Petko Khr. (*with* Khristov, Nikolaĭ D.; Konstantinov, Mikhail M.) On the numerical properties of the Schur approach to solving the matrix Riccati equation. (Bulgarian summary) **89e:65048**
Poolla, K. R. (*with* Kamen, Edward W.; Khargonekar, Pramod P.) Polynomial and stable-proper factorizations of transfer-function matrices for linear time-varying systems. **89d:93020**
Praagman, C. On the factorization of rational matrices depending on a parameter. **89b:47033**

Pritchard, A. J. *see* **El Jaï, A., 89b:93002**
(Pritchard, Catrin) *see* **El Jaï, A., 89b:93002**
(Pritchard, Rhian) *see* **El Jaï, A., 89b:93002**
Qin, Yuan Xun *see* **Liu, Yong Qing; et al.,** (Not in MR)
Rader, Charles M. (*with* Steinhardt, Allan O.) Hyperbolic Householder transforms. **89m:65040**
Renaud, P. Y. *see* **Chamilothoris, G.; et al., 89g:92008**
Roberts, A. P. (*with* Newmann, M. M.) Polynomial approach to Wiener filtering. **89a:93050**
— *see also* **Grimble, M. J., 89j:93119**
Rotella, F. (*with* Dauphin-Tanguy, G.) Nonlinear systems: identification and optimal control. **89k:93068**
Salut, G. *see* **Huillet, T.; et al., 89d:93018**
Sasagawa, T. Existence theorem for the difference Riccati equations. **89m:39007**
Schmale, Wiland Feedback cyclization over certain principal ideal domains. **89e:93060**
Schmitendorf, W. E. Designing stabilizing controllers for uncertain systems using the Riccati equation approach. **89b:93090**
Šebek, M. *n-D* polynomial matrix equations. **89e:15034a**
— One more counterexample in n-D systems—unimodular versus elementary operations. **89e:15034b**
— (*with* Hunt, K. J.; Grimble, M. J.) LQG regulation with disturbance measurement feedforward. **89e:93228**
— *see also* **Hunt, K. J.,** (Not in MR)
de la Sen, Manuel On the extension of Rosenbrock's theory in algebraic design of multivariable controllers. **89b:93057**
— Extensions of Rosenbrock's theory for algebraic design of controllers. (Spanish summary) **89b:93058**
Sévely, Y. *see* **Chamilothoris, G.; et al., 89g:92008**
Shamir, T. The partial realization problem—an algebraic approach using polynomial models. **89c:93018**
Shasha, Dafna (*with* Hershkowitz, Daniel) Maximal Lyapunov scaling factors and their applications in the study of Lyapunov diagonal semistability of block triangular matrices. **89e:15015**
Shayman, Mark A. Homogeneous indices, feedback invariants and control structure theorem for generalized linear systems. **89d:93049**
Shih, Yen P'ing *see* **Huang, Ch'i; et al., 89k:93140**
Shu, Song Gui *see* **Zhang, Heng, 89j:49032**
Shyu, Kuo Kai (*with* Huang, Ch'i) Trajectory sensitivity analysis using discrete Legendre orthogonal polynomials. (Not in MR)
Silva Leite, F. (*with* Crouch, P. E.) Controllability on classical Lie groups. **89b:93023**
Smagina, E. M. Calculation and specification of the zeros of a linear multidimensional system. (Russian. English summary) **89f:93019**
Sokolova, E. Yu. (*with* Kharitonov, V. L.) Positive definiteness of the solutions of linear matrix equations. (Russian) **89i:15004**
Sontag, Eduardo D. Bilinear realizability is equivalent to existence of a singular affine differential i/o equation. **89m:93039**
Steinberg, A. M. On observing the states of uncertain dynamical systems. **89e:93159**
Steinhardt, Allan O. *see* **Rader, Charles M., 89m:65040**
Sun, Yü I. *see* **Chung, Hung Yuan, 89a:49010** *and* **89e:34133**
Tan, Shaohua (*with* Vandewalle, Joos) On factorizations of rational matrices. **89e:15021**
— (*with* Vandewalle, Joos) Novel theory for polynomial and rational matrices at infinity. I. Polynomial matrices. **89h:15033**
— (*with* Vandewalle, Joos) Novel theory for polynomial and rational matrices at infinity. II. Rational matrices. **89h:15034**
Terdik, G. Generalized Hermite polynomials and estimation of kernels for discrete I/O Wiener models. (Russian summary) **89d:93097**
Tsay, Shuh Chuan (*with* Li, Tsu T'ien) Solution of variational problems via general orthogonal polynomials. **89b:65162**
— (*with* Wu, I. Long; Li, Tsu T'ien) Optimal control of linear time-delay systems via general orthogonal polynomials. **89d:93024**
— *see also* **Li, Tsu T'ien, 89h:34071**
Tu, Jian (*with* Wang, Yong Ji) A new method for solving Riccati matrix equations—the matrix sign function method. (Chinese. English summary) **89k:93083**
Tudor, Constantin *see* **Halanay, Aristide; et al., 89d:49016**
Tumanov, M. P. *see* **Kusov, I. F.; et al., 89i:93019**
Turchiano, Biagio *see* **Maione, Bruno, 89b:93061**
Tzafestas, Spyros G. *see* **Botsaris, C. A., 89k:93162**
Unbehauen, R. *see* **Zou, Mou Yan, 89e:12003**
Vachtsevanos, G. (*with* Mertzios, B. G.; Christodoulou, M. A.) Simplified realization for generalized transfer functions using modified Markov parameters. (Not in MR)
Valeev, K. G. ★ Расщепление спектра матриц. (Russian) [Splitting of matrix spectra] **89f:65044**
Vandewalle, Joos *see* **Tan, Shaohua, 89e:15021; De Moor, Bart, 89e:65043; Tan, Shaohua, 89h:15033** *and* **89h:15034**
Vigie, P. *see* **Chamilothoris, G.; et al., 89g:92008**
Vlassenbroeck, Jacques A Chebyshev polynomial method for optimal control with state constraints. **89f:93013**
Walcott, B. L. (*with* Corless, M. J.; Żak, S. H.) Comparative study of nonlinear state-observation techniques. **89b:93027**
— *see also* **Zeitz, M., 89b:93028**
Wang, Mao Ling (*with* Jan, Yih-Jena; Chang, Jung Yü) Analysis and parameter identification of time-delay linear systems via generalized orthogonal polynomials. **89d:93038**
— *see also* **Chang, Jung Yü; et al., 89e:93064**
Wang, Yong Ji *see* **Tu, Jian, 89k:93083**
Wiid, F. G. J. Approximating PA. **89j:93053**
Willems, J. C. *see* **Nieuwenhuis, J. W., 89c:93003**
Wimmer, Harald K. State group realizations of matrices of rational numbers. **89a:15012**
Wu, I. Long *see* **Tsay, Shuh Chuan; et al., 89d:93024**
Wu, Ke Qian Matrix $WA + A^tW$ and its applications. **89e:93160**
Xia, Lige *see* **Guo, Lei; et al., 89i:93043**
Yamada, Takeo Generic matrix sign-stability. **89b:34124**
Yang, Ching Yu (*with* Chen, Chieh-Li; Chen, Chao Kuang) Solutions of integral equations via Taylor series. **89a:45023**
Yang, Shwu Yien *see* **Chang, Jung Yü; et al., 89e:93064**
Zaballa, Ion Interlacing inequalities and control theory. **89c:93011**
Żak, S. H. *see* **Lee, E. B.; et al., 89a:93014; Walcott, B. L.; et al., 89b:93027** *and* **Zeitz, M., 89b:93028**
Zakrzhevskii, A. E. (*with* Khoroshilov, V. S.) An approach to truncation of the dimension in a mathematical model of a solid body with internal degrees of freedom. **89k:49027**
Zappa, Giovanni *see* **Mosca, E.,** (Not in MR)
Zeidan, V. (*with* Zezza, P.) The conjugate point condition for smooth control sets. **89j:49014**
Zeitz, M. Comments on: "Comparative study of nonlinear state-observation techniques" [Internat. J. Control **45** (1987), no. 6, 2109–2132] by B. L. Walcott, M. J. Corless and S. H. Żak. **89b:93028**
Zezza, P. *see* **Zeidan, V., 89j:49014**
Zhang, Heng (*with* Shu, Song Gui) Analytic approach to quadratic control with prescribed relative stability. **89j:49032**
Zhang, Shou Yuan Polynomial matrix linearization and strongly irreducible realization for singular systems. **89k:93040**
Zhou, Yuan The RSO method for solving Riccati equations and its application to optimal control of power systems. (Chinese. English summary) **89g:93040**
Zou, Mou Yan (*with* Unbehauen, R.) Approximate factorization of multivariable polynomials. (French and German summaries) **89e:12003**

Items listed otherwise than by author

CBMS Regional Conference Series in Mathematics *see* **Helton, J. William; et al., 89f:47001**

93B27 Geometric (including algebro-geometric) methods

Bitsoris, G. Positively invariant polyhedral sets of discrete-time linear systems. **89d:93031**
Conte, Giuseppe (*with* Di Benedetto, M. D.; Isidori, A.; Perdon, A.-M.) An input-output characterization of the structure at infinity for a nonlinear system. **89c:93029**
— (*with* Perdon, A.-M.) A geometric approach to the theory of 2-D systems. **89g:93028**
Dayawansa, Wijesuriya P. (*with* Martin, Clyde Franklin) Disturbance decoupling, (f, g)-invariant and controllability subspaces of a class of homogeneous polynomial systems. **89k:93057**
— *see also* **Ghosh, Bijoy Kumar, 89i:93027**
Di Benedetto, M. D. *see* **Conte, Giuseppe; et al., 89c:93029**
Fliess, Michel Esquisses pour une théorie des systèmes non linéaires en temps discret. (English summary) [Sketch of a theory of nonlinear systems in discrete time] **89e:93057**
Ghosh, Bijoy Kumar An approach to simultaneous system design. II. Nonswitching gain and dynamic feedback compensation by algebraic geometric methods. **89e:93058**
— (*with* Dayawansa, Wijesuriya P.) Differential geometric methods in hybrid parametrization of linear dynamical systems. **89i:93027**
Grizzle, Jessy W. *see* **Moog, Claude H., 89k:93058**
Han, Zheng Zhi The consistent condition of disturbance decoupling of decentralized control. (Chinese summary) **89j:93024**
Huillet, T. (*with* Monin, André-Paul-Valentin; Salut, G.) Représentations exponentielles en commande non linéaire. (English summary) [Exponential representations in nonlinear control] **89g:93029**
Hunt, L. R. (*with* Su, Ren Jeng) Approximation of nonlinear systems having outputs. **89d:93032**
Ilic, Marija *see* **Sira-Ramirez, Hebertt J.,** (Not in MR)
Isidori, A. *see* **Conte, Giuseppe; et al., 89c:93029**
Kokotović, P. V. *see* **Marino, Riccardo, 89d:93033**
Kósa, András On the manifold of controllable processes in a nonlinear Lagrange problem. **89e:93059**
Marino, Riccardo (*with* Kokotović, P. V.) A geometric approach to nonlinear singularly perturbed control systems. **89d:93033**
Martin, Clyde Franklin *see* **Dayawansa, Wijesuriya P., 89k:93057**
Monin, André-Paul-Valentin *see* **Huillet, T.; et al., 89g:93029**
Moog, Claude H. (*with* Grizzle, Jessy W.) Découplage non linéaire vu de l'algèbre linéaire. (English summary) [Nonlinear decoupling from a linear algebraic viewpoint] **89k:93058**
Nakamura, Yoshimasa Group actions on linear predictors for nonstationary processes. **89b:93044**
O'Reilly, John *see* **Sharkey, Paul M., 89k:93059**
Perdon, A.-M. *see* **Conte, Giuseppe; et al., 89c:93029** *and* **89g:93028**
Salut, G. *see* **Huillet, T.; et al., 89g:93029**
Schmale, Wiland Feedback cyclization over certain principal ideal domains. **89e:93060**
Sharkey, Paul M. (*with* O'Reilly, John) Composite control of nonlinear singularly perturbed systems: a geometric approach. **89k:93059**
Sira-Ramirez, Hebertt J. (*with* Ilic, Marija) A geometric approach to the feedback control of switch mode DC-to-DC power supplies. (Not in MR)
Sokolov, V. I. Synthesis of a decomposing control in nonlinear dynamical systems. **89g:93030**
Su, Ren Jeng *see* **Hunt, L. R., 89d:93032**
Sussmann, H. J. A product expansion for the Chen series. **89c:93030**

Items with secondary classifications in 93B27

Agrachëv, A. A. Quadratic mappings in geometric control theory. (Russian) **89m:49071**
Ammar, Gregory S. Geometric aspects of Hessenberg matrices. **89c:15027**
Basto Gonçalves, J. Minimal-dimensional realizations of Hamiltonian control systems. **89e:93035**
Bhattacharyya, Shankar Prashad (*with* Keel, L. H.; Howze, J. W.) Stabilization of linear systems with fixed order controllers. **89b:93086**
Bloch, Anthony M. A geometric approach to errors-in-variables models. (*see* **89f:00025**)
Collingwood, P. C. *see* **Crouch, P. E., 89d:93019**
Commault, C. (*with* Descusse, J.; Dion, J. M.; Lafay, J. F.; Malabre, M.) Influence de la structure à l'infini des systèmes linéaires sur la solution des problèmes de commande.

(English summary) [Influence of the structure at infinity of linear systems on the solution of control problems] **89k:93087**

Crouch, P. E. (*with* Collingwood, P. C.) The observation space and realizations of finite Volterra series. **89d:93019**

Danilevich, A. B. (*with* Koshelev, V. N.) A method for introducing a correction to the solution of a system of differential equations in order to improve its accuracy. (Russian) **89k:65106**

Davydov, A. A. Singularities of limit direction fields of two-dimensional control systems. (Russian) **89k:58209**

Delchamps, David F. New geometric approaches to parameter sensitivity in feedback systems. (*see* **89b:93008**)

Descusse, J. *see* **Commault, C.; et al., 89k:93087**

Dion, J. M. *see* **Commault, C.; et al., 89k:93087**

Doležal, Jaroslav On-line optimal control of nonlinear systems by singular perturbation techniques. (*see* **89g:00018**)

Dzhamanbaev, A. A. *see* **Ushakov, A. V., 89j:93038**

Fliess, Michel Nonlinear control theory and differential algebra. **89j:93058**

Gardner, R. B. (*with* Shadwick, W. F.) Overdetermined equivalence problems with an application to feedback equivalence. **89g:58008**

Ghosh, Bijoy Kumar A geometric approach to simultaneous system design: parameter insensitive disturbance decoupling by state and output feedback. **89c:93041**

Giannakopoulos, C. *see* **Karcanias, N.; et al.**, (Not in MR)

Grasselli, Osvaldo Maria (*with* Longhi, Sauro) Disturbance localization by measurement feedback for linear periodic discrete-time systems. **89g:93041**

Grizzle, Jessy W. *see* **Isidori, A., 89i:93088**

Hazewinkel, M. Lie algebraic methods in filtering and identification. **89g:93098a**

— A short tutorial on Lie algebras. **89k:17014**

— Lie algebraic method in filtering and identification. **89g:93098b**

Hermann, Robert Invariants for feedback equivalence and Cauchy characteristic multifoliations of nonlinear control systems. **89e:93041**

Hermes, Henry Distributions and the Lie algebras their bases can generate. **89k:58016**

Howze, J. W. *see* **Bhattacharyya, Shankar Prashad; et al., 89b:93086**

Hu, Shi Cai (*with* Zang, Jun) The disturbance decoupling problem in decentralized linear multivariable systems by local dynamic feedback. **89e:93008**

Isidori, A. (*with* Grizzle, Jessy W.) Fixed modes and nonlinear noninteracting control with stability. **89i:93088**

Jonckheere, Edmond *see* **Kitapçi, Aysin; et al., 89a:93049**

Karcanias, N. (*with* Laios, B.; Giannakopoulos, C.) Decentralized determinantal assignment problem: fixed and almost fixed modes and zeros. (Not in MR)

Keel, L. H. *see* **Bhattacharyya, Shankar Prashad; et al., 89b:93086**

Kitapçi, Aysin (*with* Jonckheere, Edmond; Silverman, Leonard) Singular optimal filtering. **89a:93049**

Knobloch, H.-W. Stabilization of control systems by means of high-gain feedback. **89k:93168**

Koshelev, V. N. *see* **Danilevich, A. B., 89k:65106**

Kravaris, Costas (*with* Palanki, Srinivas) Robust nonlinear state feedback under structured uncertainty. **89j:93036**

Krener, Arthur J. Normal forms for linear and nonlinear systems. **89b:93036**

Lafay, J. F. *see* **Commault, C.; et al., 89k:93087**

Laios, B. *see* **Karcanias, N.; et al.**, (Not in MR)

Longhi, Sauro *see* **Grasselli, Osvaldo Maria, 89g:93041**

Malabre, M. *see* **Commault, C.; et al., 89k:93087**

Palanki, Srinivas *see* **Kravaris, Costas, 89j:93036**

Sallet, G. Strong controllability for series cascade of polynomial control systems. **89g:49054**

van der Schaft, A. J. On feedback control of Hamiltonian systems. **89h:93003**

Schättler, Heinz The local structure of time-optimal trajectories in dimension three under generic conditions. **89g:49034**

Scherer, Carsten Almost disturbance decoupling with stability by dynamic output feedback: a sufficient condition. **89e:93043**

Shadwick, W. F. *see* **Gardner, R. B., 89g:58008**

Silverman, Leonard *see* **Kitapçi, Aysin; et al., 89a:93049**

Sira-Ramirez, Hebertt J. Periodic sliding motions. **89k:58250**

Trentelman, H. L. (*with* van der Woude, J. W.) Almost invariance and noninteracting control: a frequency-domain analysis. **89e:93107**

Ushakov, A. V. (*with* Dzhamanbaev, A. A.) A geometrical approach in the problem of finding a class of regulators that ensure zero parametric sensitivity. **89j:93038**

Verriest, Erik Projection techniques for model reduction. **89c:93021**

Wang, En Ping *see* **Yan, Wei Yong**, (Not in MR)

van der Woude, J. W. Disturbance decoupling and output stabilization by measurement feedback: a combined approach. **89c:93060**

— *see also* **Trentelman, H. L., 89e:93107**

Yan, Wei Yong (*with* Wang, En Ping) A method for dispersed pole placement using algebraic geometry. (Chinese) (Not in MR)

Zang, Jun *see* **Hu, Shi Cai, 89e:93008**

93B28 Operator-theoretic methods

Ball, Joseph A. (*with* Ran, A. C. M.) Hankel norm approximation of a rational matrix function in terms of its realization. (*see* **89b:93008**)

Beĭko, I. V. Methods for spline approximation of resolvent operators in optimal control problems. (Russian) (Not in MR)

Beĭko, M. F. *see* **Zin'ko, P. N., 89m:93020**

Boyd, Stephen (*with* Desoer, C. A.) Subharmonic functions and performance bounds on linear time-invariant feedback systems. (*see* **89b:93008**)

Chen, Chao Kuang *see* **Yang, Ching Yu, 89b:93045**

Chen, Ya Ling WSP systems and identification. (Chinese. English summary) **89e:93061**

Coppo, Barbara *see* **Gombani, Andrea; et al.**, (**89b:93008**)

Desoer, C. A. *see* **Boyd, Stephen**, (**89b:93008**)

Fan, Michael Ko Hui (*with* Fu, Jyun-Horng) On block limiting norm and structured singular value. **89m:93019**

Fu, Jyun-Horng *see* **Fan, Michael Ko Hui, 89m:93019**

Glover, Keith (*with* Jonckheere, Edmond) A comparison of two Hankel-norm methods for approximating spectra. **89c:93031**

Gombani, Andrea (*with* Pavon, Michele; Coppo, Barbara) On Hankel-norm approximation of stationary increment processes. (*see* **89b:93008**)

Grimble, M. J. Optimal H_∞ multivariable robust controllers and the relationship to LQG design problems. **89i:93028**

Hwang, Thong Shing *see* **Yeh, Fang Bo**, (Not in MR)

Ivanenko, V. I. (*with* Mel'nik, V. S.) The method of monotone operators in control problems for quasilinear systems. **89g:93031**

Jonckheere, Edmond *see* **Glover, Keith, 89c:93031**

Kayalar, Selahattin (*with* Weinert, Howard L.) Oblique projections: formulas, algorithms, and error bounds. (Not in MR)

Kimura, Hidenori Directional interpolation in the state space. **89c:93032**

— Conjugation, interpolation and model-matching in H^∞. **89k:93060**

Le, V. X. *see* **Safonov, M. G., 89e:93062**

Meinguet, Jean On the Glover concretization of the Adamjan-Arov-Kreĭn approximation theory. **89c:93033**

Mel'nik, V. S. *see* **Ivanenko, V. I., 89g:93031**

Milman, Mark H. A factorization on the semi-infinite interval. II. Applications to stable regulator problems. **89k:93061**

Pavon, Michele *see* **Gombani, Andrea; et al.**, (**89b:93008**)

Ran, A. C. M. *see* **Ball, Joseph A.**, (**89b:93008**)

Saeki, Masami Methods of solving a polynomial equation for an H_∞ optimal control problem for a single-input single-output discrete-time system. **89j:93025**

Safonov, M. G. (*with* Le, V. X.) An alternative solution to the H_∞-optimal control problem. **89e:93062**

Weinert, Howard L. *see* **Kayalar, Selahattin**, (Not in MR)

Wilson, D. A. Convolution and Hankel operator norms for linear systems. **89k:93062**

Yang, Ching Yu (*with* Chen, Chao Kuang) Solution of variational problems via Taylor series. **89b:93045**

Yeh, Fang Bo (*with* Hwang, Thong Shing) Pitch pointing flight control system design in the frequency domain. (Not in MR)

Zin'ko, P. N. (*with* Beĭko, M. F.) The method of second-order resolvent operators for solving systems of algebraic equations. (Russian) **89m:93020**

Items with secondary classifications in 93B28

Ahmed, N. U. Identification of linear operators in differential equations on Banach space. **89a:93017**

Ball, Joseph A. (*with* Foiaş, Ciprian; Helton, J. William; Tannenbaum, Allen) On a local nonlinear commutant lifting theorem. **89a:47010**

— *see also* **Helton, J. William; et al., 89f:47001**

Bercovici, Hari (*with* Foiaş, Ciprian; Tannenbaum, Allen) On skew Toeplitz operators. I. **89i:47043**

Boĭchuk, L. M. Synthesis of two-level coordinating control systems using adjoint projection operators. **89a:93024**

Ch'ên, Po Hsien *see* **Wang, Shun Hsiang, 89b:34177**

Curtain, R. F. *see* **Glover, Keith; et al., 89i:93067**

Dahleh, Munther A. (*with* Ohta, Yoshito) A necessary and sufficient condition for robust BIBO stability. **89k:93178**

Deciu, Elena Adjoint operator nodes, controllability and observability on complex Hilbert spaces. (Romanian summary) **89f:47026**

Dym, Harry A maximum entropy principle for contractive interpolants. **89c:47036**

Emre, E. (*with* Seo, Jin H.) Realization theoretic solution of two analytic matrix equations with application to stabilization of infinite-dimensional systems. **89k:93034**

Feintuch, A. (*with* Francis, B. A.) Distance formulas for operator algebras arising in optimal control problems. **89h:47007**

— Realization theory for time-varying, discrete-time linear systems. **89g:93013**

Ferreira, José M. On operators which leave invariant a half-space. **89m:47037**

Foiaş, Ciprian (*with* Tannenbaum, Allen) On the four-block problem. I. **89h:47037a**

— (*with* Tannenbaum, Allen) On the four-block problem. II. The singular system. **89h:47037b**

— (*with* Tannenbaum, Allen) Optimal sensitivity theory for multivariate distributed plants. **89f:93012**

— (*with* Tannenbaum, Allen; Zames, G.) Some explicit formulae for the singular values of certain Hankel operators with factorizable symbol. **89k:47040**

— (*with* Tannenbaum, Allen) Some remarks on optimal interpolation. **89k:93072**

— *see also* **Ball, Joseph A.; et al., 89a:47010** *and* **Bercovici, Hari; et al., 89i:47043**

Francis, B. A. ★ A course in H_∞ control theory. **89i:93002**

— (*with* Tannenbaum, Allen) Generalized interpolation in control theory. **89k:93003**

— *see also* **Feintuch, A., 89h:47007**

Ganesh, C. Algorithms for the interpolation with outer functions. **89i:30045**

George, Raju K. *see* **Joshi, Mohan, 89k:93015**

Glover, Keith (*with* Curtain, R. F.; Partington, J. R.) Realisation and approximation of linear infinite-dimensional systems with error bounds. **89i:93067**

Gohberg, I. (*with* Kaashoek, M. A.) Various minimalities for systems with boundary conditions and integral operators. **89h:93017**

Gombani, Andrea (*with* Pavon, Michele) Approximate Wiener-Kolmogorov filters. **89e:93195**

Helton, J. William (*with* Ball, Joseph A.; Johnson, Charles Royal; Palmer, John N.) ★ Operator theory, analytic functions, matrices, and electrical engineering. **89f:47001**

— *see also* **Ball, Joseph A.; et al., 89a:47010**

Hung, Y. S. H^∞ interpolation of rational matrices. **89i:93023**

Hwang, Thong Shing *see* **Yeh, Fang Bo**, (Not in MR)

Janecki, Dariusz Model reference adaptive control using delta operator. (Not in MR)

Johnson, Charles Royal *see* **Helton, J. William; et al., 89f:47001**

Jonckheere, Edmond *see* **Opdenacker, Philippe C., 89c:93016** *and* **Juang, Jyh-Ching, 89j:93034**

Joshi, Mohan (*with* George, Raju K.) Controllability of nonlinear systems. **89k:93015**

Juang, Jyh-Ching (*with* Jonckheere, Edmond) On computing the spectral radius of the Hankel plus Toeplitz operator. **89j:93034**

Kaashoek, M. A. *see* **Gohberg, I., 89h:93017**

Kasenally, E. M. (*with* Limebeer, D. J. N.) Closed formulae for a parameteric mixed sensitivity problem. **89k:93074**

Kas′yanyuk, V. S. Optimal control from data affected by noise. (Russian) **89j:93141**

Khargonekar, Pramod P. *see* **Zhou, Kemin, 89e:93056**

Kirsch, Andreas (*with* Wilde, Peter) The optimization of directivity and signal-to-noise ratio of an arbitrary antenna array. **89b:93077**

Kobayashi, Toshihiro Model reference adaptive control for spectral systems. **89i:93074**

Kostenko, Yu. T. (*with* Mazmanishvili, A. S.) Compact representation of the Hadamard function in a multidimensional space that is based on an integral correlation matrix operator. (Russian) **89k:93226**

Limebeer, D. J. N. *see* **Kasenally, E. M., 89k:93074**

Lü, Yong Zai *see* **Zhu, Jian Min, 89f:93003**

Lypchuk, Tanya A. (*with* Smith, Malcolm C.; Tannenbaum, Allen) Weighted sensitivity minimization: general plants in H^∞ and rational weights. **89i:93039**

Máté, László On the continuity of causal operators. **89d:47008**

Mazmanishvili, A. S. *see* **Kostenko, Yu. T., 89k:93226**

Misteri, F. *see* **Wang, Alan P., 89e:93054**

Mitter, S. K. *see* **Zames, G., 89c:47039**

Ohta, Yoshito *see* **Dahleh, Munther A., 89k:93178**

Opdenacker, Philippe C. (*with* Jonckheere, Edmond) A state space approach to approximation by phase matching. **89c:93016**

Palmer, John N. *see* **Helton, J. William; et al., 89f:47001**

Partington, J. R. *see* **Glover, Keith; et al., 89i:93067**

Pavon, Michele *see* **Gombani, Andrea, 89e:93195**

Poolla, K. R. *see* **Ting, T. C. T., 89h:90232**

Rodman, Leiba Bezout equation, Vandermonde operators, and common multiples for operator polynomials. **89i:47029**

Salamon, Dietmar Realization theory in Hilbert space. **89k:93038**

Seo, Jin H. *see* **Emre, E., 89k:93034**

Shamir, T. The partial realization problem—an algebraic approach using polynomial models. **89c:93018**

Smith, Malcolm C. *see* **Lypchuk, Tanya A.; et al., 89i:93039**

Spathopoulos, M. P. A two-level parameter estimation algorithm for large-scale systems. **89d:93096**

Tannenbaum, Allen *see* **Ball, Joseph A.; et al., 89a:47010**; **Foiaş, Ciprian, 89f:93012**; **89h:47037a**; **89h:47037b**; **Bercovici, Hari; et al., 89i:47043**; **Lypchuk, Tanya A.; et al., 89i:93039**; **Foiaş, Ciprian; et al., 89k:47040**; **Francis, B. A., 89k:93003** *and* **Foiaş, Ciprian, 89k:93072**

Ting, T. C. T. (*with* Poolla, K. R.) Upper bounds and approximate solutions for multidisk problems. **89h:90232**

Tsai, M.-C. *see* **Yeh, Fang Bo; et al., 89a:93019**

Wang, Alan P. (*with* Misteri, F.) Star-diagonalization of 3 × 3 scattering matrices. **89e:93054**

Wang, Shun Hsiang (*with* Ch'ên, Po Hsien) Optimal model-matching control for time-delay systems. **89b:34177**

Wilde, Peter *see* **Kirsch, Andreas, 89b:93077**

Wu, Jing Bo Bilaterally canonical normal symmetric realizations. **89b:93034**

Yang, Ciann Dong *see* **Yeh, Fang Bo; et al., 89a:93019**

Yeh, Fang Bo (*with* Yang, Ciann Dong; Tsai, M.-C.) Unified approach to H^∞-optimization, Hankel approximation and balanced realization problems. **89a:93019**

— (*with* Hwang, Thong Shing) Optimal sensitivity bound estimation and controller design. (Not in MR)

Zames, G. (*with* Mitter, S. K.) A note on essential spectra and norms of mixed Hankel-Toeplitz operators. **89c:47039**

— *see also* **Foiaş, Ciprian; et al., 89k:47040**

Zhou, Kemin (*with* Khargonekar, Pramod P.) An algebraic Riccati equation approach to H^∞ optimization. **89e:93056**

Zhu, Jian Min (*with* Lü, Yong Zai) Hierarchical optimal control for distributed parameter systems via block pulse operator. **89f:93003**

Zwart, H. J. Characterization of all controlled invariant subspaces for spectral systems. **89e:93129**

Items listed otherwise than by author

CBMS Regional Conference Series in Mathematics *see* **Helton, J. William; et al., 89f:47001**

93B30 System identification

Adzhubeĭ, L. T. Solution of an estimation problem for an equation of oscillations with pointwise measurements. (Russian) (Not in MR)

Ahmed, N. U. Identification of linear operators in differential equations on Banach space. **89a:93017**

— ★ Optimization and identification of systems governed by evolution equations on Banach space. **89m:93021**

Amin, R. (*with* Edmunds, J.) Confidence limits of identified frequency responses of multivariable systems. (Not in MR)

Anderson, B. D. O. *see* **Dasgupta, Soura; et al., 89i:93030**

Apostolyuk, A. S. (*with* Bobrov, B. F.; Bordyug, B. A.; Gradetskiĭ, A. V.; Larin, V. B.; Safronov, Yu. G.; Solov′ev, V. S.) Optimization of the de Prony method for the identification of linear dynamical systems. (Russian) (Not in MR)

Arievich, O. N. *see* **Stoyan, V. A., 89k:93069**

Bai, Er Wei *see* **Mason, J. E.; et al., 89i:93032**

Banks, H. T. (*with* Rosen, I. G.) Computational methods for the identification of spatially varying stiffness and damping in beams. **89c:93034**

— (*with* Ito, Kazufumi) A theoretical framework for convergence and continuous dependence of estimates in inverse problems for distributed parameter systems. (Not in MR)

— (*with* Ito, Kazufumi) A unified framework for approximation in inverse problems for distributed parameter systems. **89d:93034**

Bauman, E. V. Variational methods of piecewise approximation. (*see* **89c:00031**)

Bayard, David S. (*with* Hadaegh, F. Y.; Meldrum, D. R.) Optimal experiment design for identification of large space structures. **89d:93035**

Beĭko, I. V. (*with* Zin′ko, P. N.; Lepekha, N. P.) Problems of multiple identification of control systems with incomplete data. (Russian) (Not in MR)

Belyaev, Yu. I. Synthesis of linear schemes for estimating a scalar field by the method of stochastic interpolation. **89i:93029**

Billings, S. A. (*with* Korenberg, M. J.; Chen, Sheng^2) Identification of nonlinear output-affine systems using an orthogonal least-squares algorithm. (Not in MR)

Bloch, Anthony M. Total least squares estimation in infinite dimensions and completely integrable Hamiltonian systems. **89e:93063**

Bobrov, B. F. *see* **Apostolyuk, A. S.; et al.**, (Not in MR)

Bodson, M. *see* **Mason, J. E.; et al., 89i:93032**

Boguslavskaya, È. I. (*with* Kolomiets, M. D.) An approach to the modeling of complex dynamical systems. (Russian) **89c:93035**

Bordyug, B. A. *see* **Apostolyuk, A. S.; et al.**, (Not in MR)

Brusin, V. A. (*with* Maksimov, Yu. M.) Investigation of a class of robust algorithms for the identification of models of "input-output" dynamical systems. (Russian) **89g:93032**

Burovoĭ, I. A. *see* **Emel′yanov, S. V.; et al.**, (Not in MR)

Carasso, A. S. (*with* Simiu, Emil) Identification of dynamic Green's functions in structural networks. (Not in MR)

Cerrada, C. *see* **Feliu, V.; et al.**, (Not in MR)

Cerrada, J. A. *see* **Feliu, V.; et al.**, (Not in MR)

Chang, Jung Yü (*with* Yang, Shwu Yien; Wang, Mao Ling) Parameter identification of time-varying system via generalized orthogonal polynomials. **89e:93064**

— *see also* **Wang, Mao Ling; et al., 89d:93038**

Chao, Yung-Cheng *see* **Huang, Hsiao-Ping; et al.**, (Not in MR)

Chavent, Guy On parameter identifiability. **89b:93046**

Chen, Cheng-Liang *see* **Huang, Hsiao-Ping; et al.**, (Not in MR)

Chen, Kuo-Chieh *see* **Wu, Wên T'êng; et al.**, (Not in MR)

Chen, Sheng^2 *see* **Billings, S. A.; et al.**, (Not in MR)

Cherkashin, M. Yu. *see* **Gachinskiĭ, È. E., 89e:93065**

Chou, Yi Shyong *see* **Liu, Ch'ing T'ien, 89f:93010**

Chung, Hung Yuan (*with* Sun, Yü I.) Analysis and parameter estimation of scaled systems via the Taylor series approach. (Not in MR)

— (*with* Sun, Yü I.) Analysis and parameter estimation of nonlinear systems with Hammerstein model using Taylor series approach. (Not in MR)

— Erratum: "System identification via Fourier series" [Internat. J. Systems Sci. **18** (1987), no. 6, 1191–1194; MR 88c:93021]. **89b:93047**

Creamer, Nelson G. (*with* Junkins, John L.) Identification method for lightly damped structures. (Not in MR)

Damen, A. A. H. *see* **Janssen, Peter H. M., 89e:93066**

Danković, B. *see* **Kocić, Ljubiša M., 89g:93033**

Dasgupta, Soura (*with* Anderson, B. D. O.; Kaye, R. John) Identification of physical parameters in structured systems. **89i:93030**

Dauphin-Tanguy, G. *see* **Rotella, F., 89k:93068**

Doraiswami, R. *see* **Jiang, Jin, 89k:93064**

Edmunds, J. *see* **Amin, R.**, (Not in MR)

Eitelberg, Eduard Continuous-time system representation with exact macro-difference expressions. (Not in MR)

Emel′yanov, S. V. (*with* Burovoĭ, I. A.; Levada, F. Yu.) An estimate for the norm of the control vector in binary automatic systems. (Not in MR)

Eykhoff, P. A bird's-eye view on parameter and system identification. (Not in MR)

— *see also* **Janssen, Peter H. M.; et al.**, (Not in MR)

Falkner, A. H. Iterative technique in the identification of a nonlinear system. (Not in MR)

Feliu, V. (*with* Cerrada, J. A.; Cerrada, C.) An algorithm to compute the continuous state model from its equivalent discrete model. (Not in MR)

Filaretov, V. F. *see* **Korzun, A. I.**, (Not in MR)

Fu, L.-C. *see* **Mason, J. E.; et al., 89i:93032**

Fúster, Amparo An extended linear model for nonuniformly sampled systems. (Spanish) (Not in MR)

Gachinskiĭ, È. E. (*with* Cherkashin, M. Yu.) A system of continuous search optimization with identification. **89e:93065**

Ghosh, Bijoy Kumar *see* **Lirov, Yuval, 89a:93018**

Gnedin, A. V. (*with* Yaralov, A. A.) Identifiability of systems that are dependent on parameters. **89j:93026**

Gradetskiĭ, A. V. *see* **Apostolyuk, A. S.; et al.**, (Not in MR)

Gu, Zhong Wen *see* **Yu, Li, 89j:93032**

Gukov, V. V. (*with* Kostrov, A. V.) A method for the nonlinear identification of the motion of an aircraft. (Not in MR)

Gusev, M. I. Optimization of measurements in a problem on the estimation of the state of a dynamical system with geometric constraints on noise. **89k:93063**

— On the stability of solution of the inverse problems in control system dynamics. (Russian summary) **89i:93031**

Hadaegh, F. Y. *see* **Bayard, David S.; et al., 89d:93035**

Han, Jian Xun *see* **Qin, Xia**, (Not in MR)

Han, Zhi Gang Identification of the family of models $y(k) = \varphi(k)^\tau Af(k)$ and its application. (Chinese. English summary) (Not in MR)

Hasiewicz, Zygmunt Jerzy Two-stage procedure for parameter estimation in large-scale interconnected linear zero-memory systems. **89b:93048**

van den Hof, Paul M. J. Criterion based equivalence for equation error models. **89j:93027**

Huang, Ch'i (*with* Shyu, Kuo Kai) Series expansion approach to the analysis and identification of discrete Hammerstein systems. (Not in MR)

Huang, Hsiao-Ping (*with* Chen, Cheng-Liang; Chao, Yung-Cheng) Identification of MIMO continuous-time models by indirect methods. (Not in MR)

Ito, Kazufumi *see* **Banks, H. T., 89d:93034** *and* (Not in MR)

Jan, Yih-Jena *see* **Wang, Mao Ling; et al., 89d:93038**

Janssen, Peter H. M. (*with* Damen, A. A. H.) Comments on: "MFD models and time delays; some consequences for identification" [Internat. J. Control **45** (1987), no. 4, 1179–1196; MR 88f:93107] by Janssen. **89e:93066**

— (*with* Stoica, Petre; Söderström, Torsten; Eykhoff, P.) Model structure selection for multivariable systems by cross-validation methods. (Not in MR)

Jiang, Jin (*with* Doraiswami, R.) Direct and blockwise identification of decomposable systems using recursive least-squares algorithm. **89k:93064**

Jiong, Jiang *see* **Ning, Jiang**, (Not in MR)

Junkins, John L. *see* **Creamer, Nelson G.**, (Not in MR)

Kalat, J. (*with* Paraskevopoulos, P. N.) Solution of multipoint boundary value problems via block-pulse functions. **89h:93020**

Kaminskas, Vytautas (*with* Sakalauskas, Eligijus) An algorithm for the identification of linear distributed-parameters systems. (Not in MR)

Kawamura, Shozo *see* **Yasuda, Kimihiko; et al., 89i:93035**

Kaye, R. John *see* **Dasgupta, Soura; et al., 89i:93030**

Khlobystov, V. V. *see* **Makarov, Vladimir Leonidovich, 89j:93030**

Kihara, M. *see* **Okada, Tsuyoshi; et al.**, (Not in MR)

Kiku, A. G. (*with* Romanchenko, T. B.) Preliminary processing of a structure in identification problems. (Russian) (Not in MR)

Kirin, N. E. *see* **Zaika, Yu. V., 89g:93034**

Kocić, Ljubiša M. (*with* Danković, B.) Process identification using *B*-splines. **89g:93033**

Kohn, Robert V. (*with* Lowe, Bruce D.) A variational method for parameter identification. (French summary) **89d:93036**

Kolomiets, M. D. *see* **Boguslavskaya, È. I., 89c:93035**

Kopysitskiĭ, T. I. (*with* Mustafin, A. I.; Sergeenkova, E. V.) Choice of parameter for a type of ridge estimate. (Not in MR)

Korenberg, M. J. *see* **Billings, S. A.; et al.**, (Not in MR)

Kornoushenko, E. K. (*with* Pylaev, N. K.) Transfer numbers and diagnosis of linear systems. (Not in MR)

Kortmann, M. (*with* Unbehauen, H.) Structure detection in the identification of nonlinear systems. (French summary) (Not in MR)

Korzun, A. I. (*with* Filaretov, V. F.) Identification of the changing load mass of a manipulated object. (Not in MR)

Kostrov, A. V. *see* **Gukov, V. V.**, (Not in MR)

Kunisch, K. (*with* White, L. W.) Regularity properties and strict complementarity of the output-least-squares approach to parameter estimation in parabolic equations. **89m:93022**

Kuntsevich, V. M. Determination of guaranteed estimates for the state vectors and parameters of discrete dynamical systems. (Russian) **89e:93067**

— (*with* Lychak, M. M.) Control under indeterminacy conditions (synthesis of adaptive control systems). **89j:93028**

Larin, V. B. *see* **Apostolyuk, A. S.; et al.**, (Not in MR)

Lepekha, N. P. *see* **Beĭko, I. V.; et al.**, (Not in MR)

Levada, F. Yu. *see* **Emel′yanov, S. V.; et al.**, (Not in MR)

Lidov, M. L. An algorithm for the estimation of parameters of motion in problems with nonmodelable acceleration. **89j:93029**

Lilly, John H. Stability of a class of adaptive observers subject to unmodeled dynamics. (*see* **89b:93008**)

Lirov, Yuval (*with* Ghosh, Bijoy Kumar) Simultaneous identification of linear systems: a heuristic approach. **89a:93018**

Liu, Ch′ing T′ien (*with* Chou, Yi Shyong) Successive parameter estimation of continuous dynamic systems. **89f:93010**

Lowe, Bruce D. *see* **Kohn, Robert V., 89d:93036**

Lychak, M. M. *see* **Kuntsevich, V. M., 89j:93028**

Ma, Xiao Jiang (*with* Yuan, Jing Xia) Nonparametric identification of nonlinear systems. (Chinese. English summary) **89m:93023**

— *see also* **Yuan, Jing Xia; et al.**, (Not in MR)

Makarov, Vladimir Leonidovich (*with* Khlobystov, V. V.) On the identification of nonlinear operators and its application (invited contribution). **89j:93030**

Maksimov, V. I. Positional modeling of some parameters of functional-differential systems. (Russian) **89d:93037**

Maksimov, Yu. M. *see* **Brusin, V. A., 89g:93032**

Mason, J. E. (*with* Bai, Er Wei; Fu, L.-C.; Bodson, M.; Sastry, S. Shankar) Analysis of adaptive identifiers in the presence of unmodeled dynamics: averaging and tuned parameters. **89i:93032**

Massoumnia, Mohammad-Ali (*with* Verghese, George C.; Willsky, Alan S.) Failure detection and identification. **89k:93065**

Medrano-Cerda, G. A. (*with* Pritchard, A. J.) Parameter estimation algorithms and robust identifiability. **89k:93066**

Meldrum, D. R. *see* **Bayard, David S.; et al., 89d:93035**

Miller, D. F. Impulse response matching for z-domain identification with application to model order reduction. **89c:93036**

Mizukura, Y. *see* **Okada, Tsuyoshi; et al.**, (Not in MR)

Mustafin, A. I. *see* **Kopysitskiĭ, T. I.; et al.**, (Not in MR)

Nakagiri, Shinichi (*with* Yamamoto, Masahiro) Identifiability of linear retarded systems in Banach spaces. **89i:93033**

Nehorai, Arye *see* **Stoica, Petre**, (Not in MR)

Ning, Jiang (*with* Jiong, Jiang) Parameter or nonparameter identification of distributed parameter systems via block-pulse functions. (Not in MR)

Niu, Shao Hua *see* **Xiao, De Yun**, (Not in MR)

Okada, Tsuyoshi (*with* Kihara, M.; Mizukura, Y.) A control system equalizing pilot handling characteristics. (Not in MR)

Olsson, Per Olof *see* **Wittenmark, Björn**, (Not in MR)

Ou, Wei-Hsiung *see* **Wu, Wên T′êng; et al.**, (Not in MR)

Paraskevopoulos, P. N. *see* **Kalat, J., 89h:93020**

Parmaste, I. L. *see* **Zgurovskiĭ, M. Z.; et al.**, (Not in MR)

Polyak, B. T. *see* **Verulava, Yu. Sh., 89k:93070**

Popławski, Andrzej J. Application of the calculus of variations to the solution of identification and measurement problems. (Polish. English and Russian summaries) (Not in MR)

Prasada Rao, Ganti *see* **Unbehauen, H., 89b:93050**

Pritchard, A. J. *see* **Medrano-Cerda, G. A., 89k:93066**

Pylaev, N. K. *see* **Kornoushenko, E. K.**, (Not in MR)

Qin, Xia (*with* Han, Jian Xun) The identification of linear continuous-time systems from small samples of input-output data. (Chinese. English summary) (Not in MR)

Rafajłowicz, Ewaryst Time-domain optimization of input signals for distributed-parameter systems identification. **89k:93067**

Romanchenko, T. B. *see* **Kiku, A. G.**, (Not in MR)

Rosen, I. G. *see* **Banks, H. T., 89c:93034**

Rotella, F. (*with* Dauphin-Tanguy, G.) Nonlinear systems: identification and optimal control. **89k:93068**

Safronov, Yu. G. *see* **Apostolyuk, A. S.; et al.**, (Not in MR)

Sakalauskas, Eligijus *see* **Kaminskas, Vytautas**, (Not in MR)

Sastry, S. Shankar *see* **Mason, J. E.; et al., 89i:93032**

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Selin, A. N. *see* **Zgurovskiĭ, M. Z.; et al.**, (Not in MR)

Sergeenkova, E. V. *see* **Kopysitskiĭ, T. I.; et al.**, (Not in MR)

Shorikov, A. F. Minimax program control of an identification process in nonlinear multistep systems. **89j:93031**

Shyu, Kuo Kai *see* **Huang, Ch′i**, (Not in MR)

Simiu, Emil *see* **Carasso, A. S.**, (Not in MR)

Söderström, Torsten *see* **Janssen, Peter H. M.; et al.**, (Not in MR)

Solov′ev, V. S. *see* **Apostolyuk, A. S.; et al.**, (Not in MR)

Song, Wen Zhong (*with* Xu, Yu^2) Identification of linear discrete systems with unknown time delays. (Chinese. English summary) **89c:93037**

Stoica, Petre (*with* Nehorai, Arye) Noniterative optimal min-max instrumental variable method for system identification. (Not in MR)

— *see also* **Janssen, Peter H. M.; et al.**, (Not in MR)

Stoyan, V. A. (*with* Arievich, O. N.) Optimal estimation of solutions of linear differential equations. (Russian) **89k:93069**

Sun, Yü I. *see* **Chung, Hung Yuan**, (Not in MR) *and* (Not in MR)

Takahashi, Tohru A method of sensitivity analysis and its application to robot manipulators. (Not in MR)

Tang, Xiu Jin *see* **Yuan, Jing Xia; et al.**, (Not in MR)

Tian, Ai Bao On a sequential algorithm for identification of linear feedback systems via block-pulse functions. (Chinese. English summary) (Not in MR)

Unbehauen, H. (*with* Prasada Rao, Ganti) ★ Identification of continuous systems. **89b:93050**

— *see also* **Kortmann, M.**, (Not in MR)

Verghese, George C. *see* **Massoumnia, Mohammad-Ali; et al., 89k:93065**

Verulava, Yu. Sh. (*with* Polyak, B. T.) Choice of order of a regression model. **89k:93070**

Wang, Kang Ning Parameter identification for the double porosity systems in fracture reservoirs. **89i:93034**

Wang, Mao Ling (*with* Jan, Yih-Jena; Chang, Jung Yü) Analysis and parameter identification of time-delay linear systems via generalized orthogonal polynomials. **89d:93038**

— *see also* **Chang, Jung Yü; et al., 89e:93064**

Watanabe, Koutaro *see* **Yasuda, Kimihiko; et al., 89i:93035**

White, L. W. *see* **Kunisch, K., 89m:93022**

Willsky, Alan S. *see* **Massoumnia, Mohammad-Ali; et al., 89k:93065**

Wittenmark, Björn (*with* Olsson, Per Olof) Identification based on data with sampling delays. (Not in MR)

Wu, Wên T′êng (*with* Ou, Wei-Hsiung; Chen, Kuo-Chieh) On-line system identification with an adjustable estimation interval. (Not in MR)

Wysocki, Hubert (*with* Zellma, Marek) On an identification method for the generalized dynamic differential system. (Russian and Polish summaries) (Not in MR)

Xiao, De Yun (*with* Niu, Shao Hua) An implementation of the instrumental variable method for simultaneous identification of model order and parameters. (Chinese. English summary) (Not in MR)

Xu, Yu^2 *see* **Song, Wen Zhong, 89c:93037**

Yamamoto, Masahiro *see* **Nakagiri, Shinichi, 89i:93033**

Yang, Shwu Yien *see* **Chang, Jung Yü; et al., 89e:93064**

Yaralov, A. A. *see* **Gnedin, A. V., 89j:93026**

Yasuda, Kimihiko (*with* Kawamura, Shozo; Watanabe, Koutaro) Identification of nonlinear multi-degree-of-freedom systems (presentation of an identification technique). **89i:93035**

Yu, Li (*with* Gu, Zhong Wen) A new method for parameter estimation of bilinear systems—the Fourier series method. (Chinese) **89j:93032**

Yu, Wen Huan Parameter identification for a class of parabolic systems. (Chinese) **89e:93068**

Yuan, Jing Xia (*with* Tang, Xiu Jin; Ma, Xiao Jiang) Identification of structural nonlinearity by using the Hilbert transform. (Chinese. English summary) (Not in MR)

— *see also* **Ma, Xiao Jiang, 89m:93023**

Zaika, Yu. V. (*with* Kirin, N. E.) Conjugate problems of the identification of dynamical systems. **89g:93034**

Zellma, Marek *see* **Wysocki, Hubert**, (Not in MR)

Zgurovskiĭ, M. Z. (*with* Selin, A. N.; Parmaste, I. L.) Identification of the parameters of a process of the propagation of a gas-like admixture in the atmosphere. (Russian) (Not in MR)

Zhang, Wei Heng *see* **Zhang, Xiao Ming, 89j:93033**

Zhang, Xiao Ming (*with* Zhang, Wei Heng) The least-square frequency-domain method for identification of vibration parameters. (Chinese. English summary) **89j:93033**

Zin′ko, P. N. *see* **Beĭko, I. V.; et al.**, (Not in MR)

Items with secondary classifications in 93B30

Adzhubeĭ, L. T. (*with* Kudin, G. I.) Solution of a problem of estimating the state of a rod by the averaging method. (Russian) **89k:73046**

Anderson, David Hezekiah (*with* McWilliams, Joseph G.; Roller, Towanna) The unilateral circulation compartmental model. **89h:92003**

Astrovskiĭ, A. I. A method for solving an observation-estimation problem in linear nonstationary systems. **89g:93007**

Bandyopadhyay, Subhansu *see* **Saha, Banani, 89m:93013**

Banks, H. T. (*with* Gates, S. S.; Rosen, I. G.; Wang, Y.) The identification of a distributed parameter model for a flexible structure. **89f:73049**

Barraud, A. (*with* Roche-Zamboni, I.) Identification multivariable en ligne: une approche paramétrique et structurale simultanée. (English summary) [On-line multivariate identification: a simultaneous parametric and structural approach] **89e:93202**

Bertran, E. (*with* San-Martín, M.) Comparative study of different adaptive strategies for a robot joint control. **89b:93075**

Bingulac, S. (*with* Chow, J. H.; Winkelman, J. R.) Simultaneous generation of sensitivity functions—transfer function matrix approach. **89i:93036**

Calvet, J. L. *see* **Sultan, M. A.; et al., 89b:49050**

Carasso, A. S. Deconvolution in slow motion and the experimental determination of the impulse response of a linear time invariant system. **89c:35153**

Chen, Han Fu (*with* Guo, Lei) Adaptive control via consistent estimation for deterministic systems. **89b:93068**

Chen, Ya Ling WSP systems and identification. (Chinese. English summary) **89e:93061**

Cherruault, Y. (*with* Guillez, A.) Identification des systèmes compartimentaux ordinaires. Les programmes FELICITY et SOPHIE-ALICE. [Identification of ordinary compartmental systems. The programs FELICITY and SOPHIE-ALICE] **89b:92002**

Chow, J. H. *see* **Bingulac, S.; et al., 89i:93036**

Clement, Thierry (*with* Gentil, Sylviane) Reformulation of parameter identification with unknown-but-bounded errors. (Not in MR)

Cluett, W. R. Some comments on the use of normalization in robust adaptive control. **89k:93129**

Colonius, F. (*with* Kunisch, K.) Output least squares stability in elliptic systems. **89k:49019**

Cooper, J. E. *see* **Juang, J.-N.; et al.**, (Not in MR)

Eto, Hajime (*with* Sano, Jun) Analyses of crime control by a total criminal justice system model of feedback type with aging effect considered. **89j:92073**

Friedlander, B. *see* **Stoica, Petre; et al., 89b:93102**

Galperin, E. A. (*with* Zheng, Quan) Nonlinear observation via global optimization methods: measure theory approach. **89k:93023**

Gates, S. S. *see* **Banks, H. T.; et al., 89f:73049**

Gentil, Sylviane *see* **Clement, Thierry**, (Not in MR)

Guillez, A. Systèmes compartimentaux à retard interne. Anaïs. [Compartmental systems with internal delay. Anaïs] **89g:92003**

— *see also* **Cherruault, Y., 89b:92002**

Guo, Lei *see* **Chen, Han Fu, 89b:93068**

Hassan, M. F. *see* **Sultan, M. A.; et al., 89b:49050**

Hendawy, Z. M. *see* **Lin, Jie; et al., 89d:93003** *and* (Not in MR)

Henry, Jacques (*with* Sadikou, Y.; Yvon, J. P.) Identification of parameters in diffusion convection models: application to the analysis of blood flow in digital subtraction angiography. (*see* **89j:00028**)

Hoffmann, Karl-Heinz^2 (*with* Sprekels, Jürgen; Visintin, A.) Identification of hysteresis loops. **89i:82116**

Ishchenko, A. A. (*with* Liberol′, B. D.; Rudenko, O. G.) Investigation of the convergence of identification algorithms with memory. (Not in MR)

Itoh, Takafumi *see* **Ohta, Yoshito; et al., 89i:90040**

Janiszowski, K. *see* **Kortmann, M.; et al.**, (Not in MR)

Jiang, Zhi Hua Block pulse function approach for the identification of Hammerstein model nonlinear systems. **89k:93081**

Juang, J.-N. (*with* Cooper, J. E.; Wright, J. R.) An eigensystem realization algorithm using data correlations (ERA/DC) for modal parameter identification. (Not in MR)

Junkins, John L. *see* **Mook, D. Joseph, 89m:93086**

Kacewicz, B. Z. (*with* Milanese, M.; Vicino, A.) Conditionally optimal algorithms and estimation of reduced order models. **89c:93039**

Kats, M. A. (*with* Kinsht, N. V.; Ragulin, P. G.) Diagnosis of a parametric circuit. (Russian. English summary) **89f:94033**

Khlobystov, V. V. *see* **Makarov, Vladimir Leonidovich, 89h:41008**

Kinsht, N. V. *see* **Kats, M. A.; et al., 89f:94033**

Kodama, Shinzo *see* **Ohta, Yoshito; et al., 89i:90040**

Kortmann, M. (*with* Janiszowski, K.; Unbehauen, H.) Application and comparison of different identification schemes under industrial conditions. (Not in MR)

Kudin, G. I. *see* **Adzhubeĭ, L. T., 89k:73046**

Kunisch, K. *see* **Colonius, F., 89k:49019**

Lallement, Gerard *see* **Zhang, Qiang, 89j:70028**

Launay, Geneviève Identifiability of a model of compartmentation of serotonin in human platelets. **89e:92007**

Liberol′, B. D. *see* **Ishchenko, A. A.; et al.**, (Not in MR)

Lin, Jie (*with* Hendawy, Z. M.; Roberts, P. D.) Extension of integrated system optimization and parameter estimation to hierarchical control of steady state systems with output-dependent constraints. **89d:93003**

— (*with* Hendawy, Z. M.; Roberts, P. D.) New model-based double-loop iterative strategy for integrated system optimization and parameter estimation of large-scale industrial processes. (Not in MR)

Lomaka, M. V. (*with* Medvedev, I. V.) Construction of an equivalent model of a discrete system with several impulse elements. (Not in MR)

Lü, Yong Zai *see* **Zhao, Xia**, (Not in MR)

Maeda, Hajime *see* **Ohta, Yoshito; et al., 89i:90040**

Makarov, Vladimir Leonidovich (*with* Khlobystov, V. V.) An interpolation method for solving the identification problem for a function system described by the Uryson operator. **89h:41008**

Mallela, Parthasaradhi (*with* Yoo, Sang-Hee) On the inadequacy of sufficient conditions under "limited information" identification. **89i:62178**

McWilliams, Joseph G. *see* **Anderson, David Hezekiah; et al., 89h:92003**

Medvedev, I. V. *see* **Lomaka, M. V.**, (Not in MR)

Milanese, M. (*with* Tempo, R.; Vicino, A.) Strongly optimal algorithms and optimal information in estimation problems. **89b:93108**

— *see also* **Kacewicz, B. Z.; et al., 89c:93039**

Mook, D. Joseph (*with* Junkins, John L.) Minimum model error estimation for poorly modeled dynamic systems. **89m:93086**

Nitka-Styczeń, Krystyna Difference approximation of optimal periodic control problems. **89d:49031**

Nordström, Niklas Persistency of excitation in possibly unstable continuous-time systems, identification, and indirect adaptive control. **89k:93134**

— Parameter convergence and stability in continuous-time indirect adaptive control. (Not in MR)

Ohta, Yoshito (*with* Maeda, Hajime; Kodama, Shinzo; Itoh, Takafumi) Fault diagnosis of compartmental systems. **89i:90040**

Ouibrahim, H. Prony, Pisarenko, and the matrix pencil: a unified presentation. **89j:93050**

Park, Youngjin (*with* Stein, Jeffrey L.) Closed-loop, state and input observer for systems with unknown inputs. (Not in MR)

Pearson, Ronald K. Block-sequential algorithms for set-theoretic estimation. **89j:93108**

Penzin, K. V. Synthesis of multiple-scale measuring systems. **89j:93054**

Quintana, V. H. (*with* Van Cutsem, Th.) Power system network parameter estimation. **89j:93080**

Ragulin, P. G. *see* **Kats, M. A.; et al., 89f:94033**

Roberts, P. D. *see* **Lin, Jie; et al., 89d:93003** *and* (Not in MR)

Roche-Zamboni, I. *see* **Barraud, A., 89e:93202**

Roller, Towanna *see* **Anderson, David Hezekiah; et al., 89h:92003**

Rosen, I. G. *see* **Banks, H. T.; et al., 89f:73049**

Rudenko, O. G. *see* **Ishchenko, A. A.; et al.**, (Not in MR)

Sadikou, Y. *see* **Henry, Jacques; et al.**, (**89j:00028**)

Saha, Banani (*with* Bandyopadhyay, Subhansu) Realization of Petri nets: a system theoretic approach. **89m:93013**

San-Martín, M. *see* **Bertran, E., 89b:93075**

Sano, Jun *see* **Eto, Hajime, 89j:92073**

Schierwagen, A. Distributed parameter systems as models of current flow in nerve cells with branched dendritic trees: inverse and forward problems. **89j:92036**

Shao, Xiu Min A numerical method for the identification of linear compartmental systems. **89m:92030**

Sikora, Jan Sensitivity analysis vs the unit distribution method: its application to inverse problems. **89k:94091**

Söderström, Torsten *see* **Stoica, Petre; et al., 89b:93102**

Sonnevend, Gy. Sequential and stable methods for the solution of mass recovery problems (estimation of the spectrum and of the impedance function). **89f:93042**

Sprekels, Jürgen *see* **Hoffmann, Karl-Heinz^2; et al., 89i:82116**

Sragovich, V. G. New problems in the adaptive control of linear equations. **89a:93034**

Stein, Jeffrey L. *see* **Park, Youngjin**, (Not in MR)

Stoica, Petre (*with* Friedlander, B.; Söderström, Torsten) Instrumental variable methods for ARMA models. **89b:93102**

Sultan, M. A. (*with* Hassan, M. F.; Calvet, J. L.) Parameter estimation in large-scale systems using sequential decomposition. **89b:49050**

Tempo, R. Robust estimation and filtering in the presence of bounded noise. **89f:93043**

— *see also* **Milanese, M.; et al., 89b:93108**

Tu, Qi Li (*with* Zhang, Xi Chun) Closed-loop identification of transfer functions of a glass furnace. (Chinese summary) **89j:93081**

Unbehauen, H. *see* **Kortmann, M.; et al.**, (Not in MR)

Van Cutsem, Th. *see* **Quintana, V. H., 89j:93080**

Vicino, A. *see* **Milanese, M.; et al., 89b:93108** *and* **Kacewicz, B. Z.; et al., 89c:93039**

Visintin, A. *see* **Hoffmann, Karl-Heinz^2; et al., 89i:82116**

Vorchik, B. G. Limit properties of an adaptive control system with identification (application of identifiability equations). I. An object with one control input and one output. **89j:93072**

Wang, Hong^4 A pole-assignment self-tuning robust control for a class of nonlinear systems. (Chinese. English summary) **89i:93055**

Wang, Y. *see* **Banks, H. T.; et al., 89f:73049**

White, L. W. Estimation of elastic coefficients in beams with parameter constraints: penalization. **89j:73061**

Winkelman, J. R. *see* **Bingulac, S.; et al., 89i:93036**

Wright, J. R. *see* **Juang, J.-N.; et al.**, (Not in MR)

Yoo, Sang-Hee *see* **Mallela, Parthasaradhi, 89i:62178**

Yvon, J. P. *see* **Henry, Jacques; et al.**, (**89j:00028**)

Zhang, Qiang (*with* Lallement, Gerard) Estimation of the generalized damping matrix from identified complex eigensolutions. **89j:70028**

Zhang, Xi Chun *see* **Tu, Qi Li, 89j:93081**

Zhao, Xia (*with* Lü, Yong Zai) A nonlinear model for a fluidized catalytic cracking system, and estimation of its parameters. (Chinese. English summary) (Not in MR)

Zheng, Quan *see* **Galperin, E. A., 89k:93023**

Zou, Rui Parameter identification of nonlinear circuits from node voltage measurements. (Chinese. English summary) **89g:94047**

93B35 Sensitivity

Abdul-Wahab, Abdul-Amir A. (*with* Zohdy, M. A.) Generalized linear transformations on the design of robust dynamic output feedback controllers. **89g:93035**

Arkun, Yaman Relative sensitivity: a dynamic closed-loop interaction measure and design tool. (Not in MR)

Baghat, Ahmed *see* **Soliman, Hisham M., 89k:93075**

Bate, S. D. (*with* Honary, B. K.; Farrell, P. G.) Soft and hard decision decoding of product codes for communication systems. (Russian and Polish summaries) (Not in MR)

Belfiore, J. C. A weighted-output symbol-by-symbol decoding algorithm of binary convolutional codes. (*see* **89c:94004**)

Bingulac, S. (*with* Chow, J. H.; Winkelman, J. R.) Simultaneous generation of sensitivity functions—transfer function matrix approach. **89i:93036**

Canalis-Durand, Mireille (*with* Yalo, Paulin) Robustesse des systèmes linéaires bouclés aux perturbations non-linéaires. (English summary) [Robustness of linear feedback systems with nonlinear perturbations] **89i:93037**

Cassandras, Christos G. (*with* Strickland, Stephen G.) Perturbation analysis and augmented Markov chains for discrete event systems. (*see* **89c:00031**)

Chow, J. H. *see* **Bingulac, S.; et al., 89i:93036**

Cobb, J. Daniel Linear compensator designs based exclusively on input-output information are never robust with respect to unmodeled dynamics. **89e:93069**
— Toward a theory of robust compensation for systems with unknown parasitics. **89m:93024**
Dahleh, Munther A. (*with* Pearson, J. Boyd, Jr.) Optimal rejection of persistent disturbances, robust stability, and mixed sensitivity minimization. (Not in MR)
— (*with* Pearson, J. Boyd, Jr.) Minimization of a regulated response to a fixed input. (Not in MR)
Delchamps, David F. New geometric approaches to parameter sensitivity in feedback systems. (*see* **89b:93008**)
Delfour, M. C. (*with* Zolésio, J.-P.) Shape sensitivity analysis via a penalization method. (French summary) **89k:93071**
Deng, Ju Long Three properties of GM(1, 1) grey forecasting models—optimal structure and the problem of optimal quantity of information for grey forecasting control. (Chinese. English summary) (Not in MR)
Doyle, John C. *see* **Lenz, Kathryn E.; et al., 89b:93053; Glover, Keith, 89e:93070** *and* **89e:93071**
Dzhamanbaev, A. A. *see* **Ushakov, A. V., 89j:93038**
El-Sakkary, Ahmed K. Design of H^∞-optimal feedback controllers for model following. **89f:93011**
— New interpretation of Wiener-Hopf optimal sensitivity. (Not in MR)
Evans, Robin J. *see* **Soh, Y. C., 89e:93076**
Eyler, M. Akif A simple interpretation of perturbation analysis. (*see* **89c:00031**)
Fan, Michael Ko Hui (*with* Tits, André L.) m-form numerical range and the computation of the structured singular value. **89b:93051**
Farrell, P. G. *see* **Bate, S. D.; et al.,** (Not in MR)
Fedenia, M. M. *see* **Stojić, M. R.; et al., 89i:93041**
Feintuch, A. (*with* Francis, B. A.) Minimal sensitivity for linear time varying systems. **89c:93038**
Foiaş, Ciprian (*with* Tannenbaum, Allen) Optimal sensitivity theory for multivariate distributed plants. **89f:93012**
— (*with* Tannenbaum, Allen) Some remarks on optimal interpolation. **89k:93072**
Francis, B. A. *see* **Feintuch, A., 89c:93038**
Frank, P. M. *see* **Verde, C., 89e:93077**
Garofalo, F. (*with* Leitmann, G.) A composite controller ensuring ultimate boundedness for a class of singularly perturbed uncertain systems. **89k:93073**
Gichev, T. R. Singular perturbations in an optimal control problem with fixed ends. (Russian. English and Bulgarian summaries) **89g:93036**
Glover, Keith (*with* Doyle, John C.) Relations between H_∞ and risk sensitive controllers. **89e:93070**
— (*with* Doyle, John C.) State-space formulae for all stabilizing controllers that satisfy an H_∞-norm bound and relations to risk sensitivity. **89e:93071**
Grimble, M. J. State-space approach to H_∞ optimal control. (Not in MR)
Gu, D.-W. *see* **Postlethwaite, I.; et al.,** (Not in MR)
Halikias, G. D. *see* **Limebeer, D. J. N., 89e:93073**
Hara, Shinji (*with* Sung, Hak-Kyung) Sensitivity improvement by a stable controller in SISO digital control systems. (Not in MR)
— *see also* **Sung, Hak-Kyung, 89k:93076**
Heidelberger, Philip (*with* Towsley, Don) Sensitivity analysis from sample paths using the method of likelihoods. (*see* **89c:00031**)
Honary, B. K. *see* **Bate, S. D.; et al.,** (Not in MR)
Huang, Ch'i *see* **Shyu, Kuo Kai,** (Not in MR)
Hwang, Thong Shing *see* **Yeh, Fang Bo,** (Not in MR)
Jiang, Chung Li Another sufficient condition for the stability of interval matrices. **89e:93072**
Jonckheere, Edmond *see* **Juang, Jyh-Ching, 89j:93034** *and* **89j:93035**
Juang, Jyh-Ching (*with* Jonckheere, Edmond) On computing the spectral radius of the Hankel plus Toeplitz operator. **89j:93034**
— (*with* Jonckheere, Edmond) Vector-valued versus scalar-valued figures of merit in H^∞-feedback system design. **89j:93035**
Kasenally, E. M. (*with* Limebeer, D. J. N.) Closed formulae for a parameteric mixed sensitivity problem. **89k:93074**
Khargonekar, Pramod P. (*with* Petersen, Ian R.; Rotea, Mario A.) H_∞-optimal control with state-feedback. (Not in MR)
— *see also* **Lenz, Kathryn E.; et al., 89b:93053**
Kimura, Hidenori *see* **Zhao, Yao, 89e:93078** *and* **89e:93079**
Koda, Masato Sensitivity analysis of a descriptor distributed parameter system and its application to shape optimization. **89m:93025**
— Sensitivity analysis of descriptor distributed parameter systems. **89i:93038**
Komkov, V. Sensitivity techniques for systems with distributed parameters. **89b:93052**
Kravaris, Costas (*with* Palanki, Srinivas) Robust nonlinear state feedback under structured uncertainty. **89j:93036**
Leitmann, G. *see* **Garofalo, F., 89k:93073**
Lenz, Kathryn E. (*with* Khargonekar, Pramod P.; Doyle, John C.) When is a controller H^∞-optimal? **89b:93053**
Limebeer, D. J. N. (*with* Halikias, G. D.) A controller degree bound for $\mathscr{H}^\infty$-optimal control problems of the second kind. **89e:93073**
— *see also* **Kasenally, E. M., 89k:93074**
Lypchuk, Tanya A. (*with* Smith, Malcolm C.; Tannenbaum, Allen) Weighted sensitivity minimization: general plants in H^∞ and rational weights. **89i:93039**
Mansour, M. *see* **Xu, Ji-Han, 89m:93026**
Olbrot, A. W. *see* **Pandolfi, L., 89g:93037**
O'Young, S. D. *see* **Postlethwaite, I.; et al.,** (Not in MR)
Palanki, Srinivas *see* **Kravaris, Costas, 89j:93036**
Pandolfi, L. (*with* Olbrot, A. W.) Corrigendum et addendum: "On the minimization of sensitivity to additive disturbances for linear-distributed parameter MIMO feedback systems" [Internat. J. Control **43** (1986), no. 2, 389–399; MR 87f:93037]. **89g:93037**
Pearson, J. Boyd, Jr. *see* **Dahleh, Munther A.,** (Not in MR) *and* (Not in MR)
Petersen, Ian R. *see* **Khargonekar, Pramod P.; et al.,** (Not in MR)
Postlethwaite, I. (*with* O'Young, S. D.; Gu, D.-W.) Note on McMillan degree bounds for H^∞ optimal controllers. (Not in MR)
Pritchard, A. J. (*with* Townley, S.) Robust compensator design via structured stability radii. **89e:93074**
Rotea, Mario A. *see* **Khargonekar, Pramod P.; et al.,** (Not in MR)
de la Sen, Manuel A robust indirect discrete adaptive-control approach based on passivity results for nonlinear systems. **89e:93075**
Shi, Song Jiao (*with* Wang, Yue Yun) Design of minimum sensitivity controllers by eigenstructure assignment. (Chinese. English summary) **89j:93037**
Shyu, Kuo Kai (*with* Huang, Ch'i) Trajectory sensitivity analysis using discrete Legendre orthogonal polynomials. (Not in MR)
Smith, Malcolm C. *see* **Lypchuk, Tanya A.; et al., 89i:93039**
Soh, Y. C. (*with* Evans, Robin J.) Stability analysis of interval matrices—continuous and discrete systems. **89e:93076**
Sokołowski, Jan Shape sensitivity analysis of boundary optimal control problems for parabolic systems. **89i:93040**
Soliman, Hisham M. (*with* Baghat, Ahmed) Minimum sensitivity pole placer. **89k:93075**
Stojić, M. R. (*with* Fedenia, M. M.; Stojić, R.) Sensitivities of the prescribed pole spectrum in a closed-loop control system. **89i:93041**
Stojić, R. *see* **Stojić, M. R.; et al., 89i:93041**
Strickland, Stephen G. *see* **Cassandras, Christos G., (89c:00031)**
Sun, Ji Guang Measures of robustness in control system design. (Chinese. English summary) **89g:93038**
Sung, Hak-Kyung (*with* Hara, Shinji) Properties of sensitivity and complementary sensitivity functions in single-input single-output digital control systems. **89k:93076**
— *see also* **Hara, Shinji,** (Not in MR)
Szczepaniak, P. S. Sensitivity analysis of linear systems using orthogonal functions. **89i:93042**
Tannenbaum, Allen *see* **Foiaş, Ciprian, 89f:93012; Lypchuk, Tanya A.; et al., 89i:93039** *and* **Foiaş, Ciprian, 89k:93072**
Tits, André L. *see* **Fan, Michael Ko Hui, 89b:93051**
Townley, S. *see* **Pritchard, A. J., 89e:93074**
Towsley, Don *see* **Heidelberger, Philip, (89c:00031)**
Tsai, M.-C. *see* **Yeh, Fang Bo; et al., 89a:93019**
Ushakov, A. V. (*with* Dzhamanbaev, A. A.) A geometrical approach in the problem of finding a class of regulators that ensure zero parametric sensitivity. **89j:93038**
Verde, C. (*with* Frank, P. M.) Sensitivity reduction of the linear quadratic regulator by matrix modification. **89e:93077**
Wang, Yue Yun *see* **Shi, Song Jiao, 89j:93037**
Winkelman, J. R. *see* **Bingulac, S.; et al., 89i:93036**
Xi, Yu Geng *see* **Xu, Xiao Ming; et al., 89g:93039**
Xu, Ji-Han (*with* Mansour, M.) H^∞-optimal robust regulation of MIMO systems. **89m:93026**
Xu, Xiao Ming (*with* Xi, Yu Geng; Zhang, Zhong Jun) The robustness analysis of predictive control systems. (Chinese. English summary) **89g:93039**
Yalo, Paulin *see* **Canalis-Durand, Mireille, 89i:93037**
Yang, Ciann Dong *see* **Yeh, Fang Bo; et al., 89a:93019**
Yeh, Fang Bo (*with* Yang, Ciann Dong; Tsai, M.-C.) Unified approach to H^∞-optimization, Hankel approximation and balanced realization problems. **89a:93019**
— (*with* Hwang, Thong Shing) Optimal sensitivity bound estimation and controller design. (Not in MR)
Zhang, Zhong Jun *see* **Xu, Xiao Ming; et al., 89g:93039**
Zhao, Yao (*with* Kimura, Hidenori) Multivariable dead-beat control with robustness. **89e:93078**
— (*with* Kimura, Hidenori) Two-degrees-of-freedom dead-beat control system with robustness. **89e:93079**
Zohdy, M. A. *see* **Abdul-Wahab, Abdul-Amir A., 89g:93035**
Zolésio, J.-P. *see* **Delfour, M. C., 89k:93071**

Items with secondary classifications in 93B35

Ahmed, N. U. *see* **Li, Peng, 89k:93172**
Anakwa, W. K. N. (*with* Swamy, M. N. S.) Equivalent cascade versions of observer-based controllers for SISO and MIMO linear systems. (Not in MR)
Anderson, B. D. O. *see* **Kraus, F.; et al., 89g:93085**
Badr, R. I. (*with* Hassan, M. F.; Bernussou, J.; Bilal, A. Y.) Time-domain robustness and performance optimisation of linear quadratic control problems. **89j:93043**
Bakan, G. M. (*with* Volosov, V. V.) On the solution of the problem of the design of a system of programmed control when the noise in the channel of measurement is bounded in modulus. (Russian) **89d:93041**
Beex, A. A. (Louis) *see* **DeBrunner, Victor E., (89f:00025)**
Bendsøe, Martin P. (*with* Sokołowski, Jan) Sensitivity analysis and optimal design of elastic plates with unilateral point supports. **89f:73044**
— (*with* Sokołowski, Jan) Design sensitivity analysis of elastic-plastic analysis problems. **89j:73077**
Benzaouia, Abdellah (*with* Burgat, Christian) Stabilizing regulators for uncertain discrete-time linear systems. (French summary) **89e:93162**
Berger, C. S. Robust pole-placement algorithm for adaptive control. **89k:93100**
Bernussou, J. *see* **Badr, R. I.; et al., 89j:93043**
Bhattcharyya, Shankar Prashad *see* **Keel, L. H., 89m:93064**
Bilal, A. Y. *see* **Badr, R. I.; et al., 89j:93043**
Bistritz, Yuval Stability criterion for continuous-time system polynomials with uncertain complex coefficients. **89j:93099**
Bontsema, J. (*with* Curtain, R. F.; Schumacher, J. M.) Robust control of flexible structures: a case study. **89k:93161**
Breinl, W. (*with* Leitmann, G.) State feedback for uncertain dynamical systems. **89a:93041**
Brusin, V. A. (*with* Maksimov, Yu. M.) Investigation of a class of robust algorithms for the identification of models of "input-output" dynamical systems. (Russian) **89g:93032**
Bryson, Arthur E., Jr. *see* **Lee, Allan Yeow-Nam, 89k:49013**
Burgat, Christian *see* **Benzaouia, Abdellah, 89e:93162**
Byers, Ralph (*with* Nash, Stephen G.) Approaches to robust pole assignment. **89m:93033**

Chen, Chun Hui On a numerical method for robust pole assignment by output feedback. (Chinese. English summary) **89j:93039**
Chen, Han Fu (*with* Guo, Lei) A robust stochastic adaptive controller. **89i:93071**
Ch'ên, Kuo Hsien *see* **Chuang, Yao T'ang, 89k:93101**
Ch'ên, Po Hsien *see* **Hwang, C. L., 89e:93139; Chiang, Chiang-Cheng, 89e:93164** *and* **Hsiao, Fêng Hsiang, 89h:49031**
Chen, Ye-Hwa (*with* Pandey, Sandeep) Robust control strategy for take-off performance in a windshear. **89m:93058**
Cherkashin, M. Yu. *see* **Gachinskiĭ, È. E., 89e:93065**
Chiang, Chiang-Cheng (*with* Ch'ên, Po Hsien) Robust stabilization against nonlinear time-varying uncertainties. **89e:93164**
Chuang, Yao T'ang (*with* Ch'ên, Kuo Hsien) Robust pole-assignment for dynamic systems with uncertain parameters. (Chinese summary) **89k:93101**
Cluett, W. R. (*with* Shah, S. L.; Fisher, D. Grant) Robustness analysis of discrete-time adaptive control systems using input-output stability theory: a tutorial. **89b:93097**
— Some comments on the use of normalization in robust adaptive control. **89k:93129**
Colgate, J. E. (*with* Hogan, N.) Robust control of dynamically interacting systems. **89k:93086**
Curtain, R. F. L_∞-approximations of complex functions and robust controllers for large flexible space structures. **89i:93001**
— *see also* **Bontsema, J.; et al., 89k:93161**
Dahleh, Mohammed (*with* Dahleh, Munther A.) A class of adaptive controllers with application to robust adaptive control. **89k:93130**
Dahleh, Munther A. *see* **Dahleh, Mohammed, 89k:93130**
DeBrunner, Victor E. (*with* Beex, A. A. (Louis)) Sensitivity analysis of digital filter structures. (*see* **89f:00025**)
De La Salle, S. *see* **Grimble, M. J.; et al., 89k:93090**
Delfour, M. C. (*with* Zolésio, J.-P.) Further development in shape sensitivity analysis via penalization method. **89h:49009**
— (*with* Zolésio, J.-P.) Shape sensitivity analysis via min max differentiability. **89h:49010**
Diduch, C. P. (*with* Doraiswami, R.) Role of sample period in transients, robustness and sensitivity in optimally designed digital control systems. (Not in MR)
Dion, J. M. *see* **Giri, F.; et al., 89k:93179** *and* (Not in MR)
Doraiswami, R. *see* **Diduch, C. P.**, (Not in MR)
Duan, Guang Ren (*with* Wu, Guang Yu; Huang, Wen Hu) Analysis of the robust stability of a discrete pole assignment control system. (Chinese. English summary) **89m:93032**
Dugard, L. *see* **Giri, F.; et al., 89k:93179** *and* (Not in MR)
Evans, Robin J. *see* **Soh, Y. C., 89k:93174**
Fang, Chong Zhi *see* **Ge, Wei, 89i:93013**
Feliachi, Ali Linear feedback control with prespecified performance measure. **89d:49034**
Feng, Chun Bo (*with* Luo, Ning Su; Li, Xiao Ming^1) Robustness of adaptive control systems. (Chinese. English summary) **89c:93049**
Ferreira, Pedro M. G. DDP and model following problem revisited. **89k:93088**
(Fielder, M.) *see* **Benzaouia, Abdellah, 89e:93162**
Fisher, D. Grant *see* **Cluett, W. R.; et al., 89b:93097**
Fletcher, L. R. *see* **Ho, W. C., 89k:93112**
Foiaş, Ciprian (*with* Tannenbaum, Allen; Zames, G.) Some explicit formulae for the singular values of certain Hankel operators with factorizable symbol. **89k:47040**
Francis, B. A. (*with* Tannenbaum, Allen) Generalized interpolation in control theory. **89k:93003**
Gachinskiĭ, È. E. (*with* Cherkashin, M. Yu.) A system of continuous search optimization with identification. **89e:93065**
Gawthrop, P. J. (*with* Kharbouch, M.) Two-loop self-tuning cascade control. (Not in MR)
Ge, Wei (*with* Fang, Chong Zhi) Existence conditions for a class of robust observers. (Chinese. English summary) **89i:93013**
Giri, F. (*with* M'Saad, M.; Dugard, L.; Dion, J. M.) Robustness of pole placement direct adaptive control for time-varying plants. **89k:93179**
— (*with* Dion, J. M.; Dugard, L.; M'Saad, M.) Robust pole placement direct adaptive control. (Not in MR)
Goodwin, Graham C. *see* **Hill, David J.; et al., 89m:93048**
Grimble, M. J. (*with* De La Salle, S.; Ho, D.) Relationship between internal model control and LQG controller structures. **89k:93090**
Guo, Lei *see* **Chen, Han Fu, 89i:93071**
Hakimi, S. Louis *see* **Lutz, William J., 89i:93020**
Hassan, M. F. *see* **Badr, R. I.; et al., 89j:93043**
Helton, J. William (*with* Sideris, Athanasios) Frequency response algorithms for H_∞ optimization with time domain constraints. **89m:93029**
Hill, David J. (*with* Wen, Changyun; Goodwin, Graham C.) Stability analysis of decentralised robust adaptive control. **89m:93048**
Ho, D. *see* **Grimble, M. J.; et al., 89k:93090**
Ho, W. C. (*with* Fletcher, L. R.) Perturbation theory of output feedback pole assignment. **89k:93112**
Ho, Yu-Chi (*with* Li, Shu) Extensions of infinitesimal perturbation analysis. **89b:93116**
Hogan, N. *see* **Colgate, J. E., 89k:93086**
Hosoe, S. (*with* Zhang, Feifei) An elementary state space approach to RH^∞ optimal control. **89m:93017**
Hsiao, Fêng Hsiang (*with* Ch'ên, Po Hsien) Robustness optimization in LQG multivariate systems with time-varying nonlinear perturbations. **89h:49031**
Huang, Wen Hu *see* **Duan, Guang Ren; et al., 89m:93032**
Hunt, K. J. General polynomial solution to the optimal feedback/feedforward stochastic tracking problem. **89g:93110**
Hwang, C. L. (*with* Ch'ên, Po Hsien) Adaptive control of optimal model matching in H^∞-norm space. **89e:93139**
Hwang, Thong Shing *see* **Yeh, Fang Bo, 89e:93080**
Ivanenko, V. I. Some questions regarding indeterminacy and dynamics in control problems. **89i:93003**
Jayasuriya, Suhada (*with* Kee, Chang-Doo) Circle-type criterion for synthesis of robust tracking controllers. **89g:93043**
Jongen, H. Th. (*with* Möbert, T.; Rückmann, Jan; Tammer, Klaus) On inertia and Schur complement in optimization. **89f:90143**
Jury, E. I. *see* **Kraus, F.; et al., 89g:93085**
Kee, Chang-Doo *see* **Jayasuriya, Suhada, 89g:93043**
Keel, L. H. (*with* Bhattcharyya, Shankar Prashad) Robust stability and stabilization in parameter space. **89m:93064**
Kharbouch, M. *see* **Gawthrop, P. J.**, (Not in MR)
Khargonekar, Pramod P. (*with* Poolla, K. R.; Tannenbaum, Allen) Periodic controllers for robust control of linear time-invariant plants. **89i:93048**
— *see also* **Zhou, Kemin, 89e:93056**
Kimura, Hidenori Directional interpolation in the state space. **89c:93032**
— Conjugation, interpolation and model-matching in H^∞. **89k:93060**
Kobayashi, Toshihiro (*with* Luo, Zheng Hua) Dynamic shape control for a flexible beam. **89e:93094**
Kraus, F. (*with* Anderson, B. D. O.; Jury, E. I.; Mansour, M.) On the robustness of low-order Schur polynomials. **89g:93085**
Kuo, Tê Shêng *see* **Yu, Fu Chao; et al., 89k:94097**
Lee, Allan Yeow-Nam (*with* Bryson, Arthur E., Jr.) Neighbouring extremals of dynamic optimization problems with parameter variations. **89k:49013**
Lee, Shiow Harn *see* **Li, Tsu T'ien, 89i:93051**
Leitmann, G. *see* **Breinl, W., 89a:93041**
Levine, William S. *see* **Yang, Jiann-Shiou, 89e:93109**
Li, Peng (*with* Ahmed, N. U.) On exponential stability of infinite-dimensional linear systems with bounded or unbounded perturbations. **89k:93172**
Li, Shu *see* **Ho, Yu-Chi, 89b:93116**
Li, Tsu T'ien (*with* Lee, Shiow Harn) Synthesis of control laws with specified gain and phase margin and poles region. **89i:93051**
Li, Xiao Ming^1 *see* **Feng, Chun Bo; et al., 89c:93049**
Lin, Teng-Pin *see* **Wang, Shun Hsiang, 89h:93048**
Ling, Yen Lei (*with* Wang, Bor Chyun) First- and second-order eigensensitivities of matrices with distinct eigenvalues. **89e:93120**
Liu, Yu Qi *see* **Wang, Hong^4, 89j:93073**
Long, Zhi Yang *see* **Zhou, Qi Jie, 89g:93050**
Longman, Richard W. *see* **Sevaston, George E., 89k:93095**
Luo, Ning Su *see* **Feng, Chun Bo; et al., 89c:93049**
Luo, Zheng Hua *see* **Kobayashi, Toshihiro, 89e:93094**
Lutz, William J. (*with* Hakimi, S. Louis) Design of multi-input multi-output systems with minimum sensitivity. **89i:93020**
Ma, C. C. H. Inherent robustness of discrete-time adaptive control systems. **89j:93071**
Maksimov, V. I. Positional modeling of unbounded controls for nonlinear distributed systems with dissipation. **89f:93015**
Maksimov, Yu. M. *see* **Brusin, V. A., 89g:93032**
Mansour, M. *see* **Kraus, F.; et al., 89g:93085**
Medrano-Cerda, G. A. (*with* Pritchard, A. J.) Parameter estimation algorithms and robust identifiability. **89k:93066**
Mitter, S. K. *see* **Zames, G., 89c:47039**
Möbert, T. *see* **Jongen, H. Th.; et al., 89f:90143**
Moore, John Barratt *see* **Obinata, G., 89i:93093**
M'Saad, M. *see* **Giri, F.; et al., 89k:93179** *and* (Not in MR)
Nash, Stephen G. *see* **Byers, Ralph, 89m:93033**
Obinata, G. (*with* Moore, John Barratt) Characterization of controllers in simultaneous stabilization. **89i:93093**
Owens, T. J. Parametric output feedback control with response insensitivity. (Not in MR)
Pandey, Sandeep *see* **Chen, Ye-Hwa, 89m:93058**
Poolla, K. R. *see* **Khargonekar, Pramod P.; et al., 89i:93048**
Pritchard, A. J. *see* **Medrano-Cerda, G. A., 89k:93066**
Rozenvasser, E. N. On the construction of a Fischer matrix for the problem of the estimation of parameters of finite-dimensional systems. **89c:93080**
Rückmann, Jan *see* **Jongen, H. Th.; et al., 89f:90143**
Schumacher, J. M. *see* **Bontsema, J.; et al., 89k:93161**
de la Sen, Manuel A robust discrete adaptive control approach based on passivity results for nonlinear systems. **89e:93143**
Sevaston, George E. (*with* Longman, Richard W.) Systematic design of robust control systems using small gain stability concepts. **89k:93095**
Shah, S. L. *see* **Cluett, W. R.; et al., 89b:93097**
Shan, Yun Sheng Synthesis of systems of variable structure in the frequency domain. (Chinese. English summary) (Not in MR)
Shi, Song Jiao *see* **Xu, Dong Ling; et al.**, (**89c:00031**)
Shokin, Yu. I. (*with* Zakharov, Aleksandr Vasil'evich) Design of control systems under interval determinacy of the parameters of their mathematical models. **89g:93046**
Sideris, Athanasios *see* **Helton, J. William, 89m:93029**
Sims, Craig S. A class of reduced order filters designed for state dependent noise. (*see* **89c:00031**)
Soh, Y. C. (*with* Evans, Robin J.) Characterization of robust controllers. **89k:93174**
Sokołowski, Jan Sensitivity analysis of control constrained optimal control problems for distributed parameter systems. **89c:49017**
— (*with* Zolésio, J.-P.) Shape sensitivity analysis of contact problem with prescribed friction. **89m:73033**
— *see also* **Bendsøe, Martin P., 89f:73044** *and* **89j:73077**
Spong, Mark W. Robust stabilization for a class of nonlinear systems. **89h:93046**
Sun, Shi Qian A new algorithm for matrix decomposition in linear, time-invariant singular systems and its applications in sensitivity calculations. (Chinese. English summary) (Not in MR)
Swamy, M. N. S. *see* **Anakwa, W. K. N.**, (Not in MR)
Tammer, Klaus *see* **Jongen, H. Th.; et al., 89f:90143**
Tang, Yu Robust adaptive control. Averaging gradient algorithm. (*see* **89c:00031**)
Tanino, Tetsuzo Sensitivity analysis in multiobjective optimization. **89i:90084**
Tannenbaum, Allen *see* **Khargonekar, Pramod P.; et al., 89i:93048; Foiaş, Ciprian; et al., 89k:47040** *and* **Francis, B. A., 89k:93003**
Tonev, M. I. *see* **Zapryanov, Ĭ. D.**, (Not in MR) *and* (Not in MR)
Vardulakis, A. I. G. Necessary and sufficient condition for stability robustness under known additive perturbation. **89b:93084**

Vicino, A. Maximal polytopic stability domains in parameter space for uncertain systems. (Not in MR)

Vinter, R. B. Optimality and sensitivity of discrete time processes. (Russian and Polish summaries) **89k:93141**

Volosov, V. V. *see* **Bakan, G. M., 89d:93041**

Wang, Bor Chyun *see* **Ling, Yen Lei, 89e:93120**

Wang, En Ping (*with* Yan, Wei Yong) On the strictly positive real lemma. (Chinese summary) **89a:93016**

Wang, Hong^4 (*with* Liu, Yu Qi) A study of adaptive robust control systems. (Chinese. English summary) **89j:93073**

— An adaptive robust control system—stability and robustness. (Chinese. English summary) **89g:93060**

Wang, Shun Hsiang (*with* Lin, Teng-Pin) Robust stabilization of uncertain time-delay systems with sampled feedback. **89h:93048**

Wen, Changyun *see* **Hill, David J.; et al., 89m:93048**

Wu, Guang Yu *see* **Duan, Guang Ren; et al., 89m:93032**

Wu, Yen P'ei *see* **Yu, Fu Chao; et al., 89k:94097**

Xu, Dong Ling (*with* Yang, Jian Bo; Shi, Song Jiao) Theory and method for designing feedback controllers of SISO descriptor systems with H^∞-optimal sensitivity. (*see* **89c:00031**)

Yan, Wei Yong *see* **Wang, En Ping, 89a:93016**

Yang, Jian Bo *see* **Xu, Dong Ling; et al.,** (**89c:00031**)

Yang, Jiann-Shiou (*with* Levine, William S.) An H^∞ method for the design of linear time-invariant multivariable sampled-data control systems. **89e:93109**

Yasuda, Kazunori Decentralized optimal control for large-scale interconnected systems. **89e:93011**

Yedavalli, Rama K. Robust nonlinear computed torque control for robot manipulators. **89j:70004**

Yeh, Fang Bo (*with* Hwang, Thong Shing) A computational algorithm for the super-optimal solution of the model matching problem. **89e:93080**

Yu, Fu Chao (*with* Wu, Yen P'ei; Kuo, Tê Shêng) A fast recursive method for sensitivity analysis of nonlinear networks. (Chinese summary) **89k:94097**

Yuan, Zhen Dong An overview on robustness of adaptive control. (Chinese. English summary) (Not in MR)

Zadrozny, Peter Analytic derivatives for estimation of discrete-time, linear-quadratic, dynamic, optimization models. **89e:49028**

Zakharov, Aleksandr Vasil'evich *see* **Shokin, Yu. I., 89g:93046**

Zames, G. (*with* Mitter, S. K.) A note on essential spectra and norms of mixed Hankel-Toeplitz operators. **89c:47039**

— *see also* **Foiaş, Ciprian; et al., 89k:47040**

Zapryanov, Ĭ. D. (*with* Tonev, M. I.) Design of decentralized robust control for a class of nonlinear dynamic objects. (Bulgarian. English and Russian summaries) (Not in MR)

— (*with* Tonev, M. I.) Robust automatic control systems. Design methods. (Bulgarian. English and Russian summaries) (Not in MR)

Zhang, Feifei *see* **Hosoe, S., 89m:93017**

Zhou, Kemin (*with* Khargonekar, Pramod P.) An algebraic Riccati equation approach to H^∞ optimization. **89e:93056**

Zhou, Qi Jie (*with* Long, Zhi Yang) Robust pole assignment by output feedback. (Chinese. English summary) **89g:93050**

Zolésio, J.-P. *see* **Delfour, M. C., 89h:49009; 89h:49010** *and* **Sokołowski, Jan, 89m:73033**

Zuazua, Enrike Robustesse du feedback de stabilisation par contrôle frontière. (English summary) [Robustness of stabilization feedback via boundary control] **89i:93095**

93B40 Computational methods

Aniţa, Sebastian^2 Approximating linear optimal control problems via Trotter formula. **89k:93077**

Apte, Y. S. New minimal order design algorithm for linear multivariable systems. **89k:93078**

Arutyunov, A. V. (*with* Ber, G. Z.; Tynyanskiĭ, N. T.) A numerical method of solving complete-dimensional optimal-control problems. **89b:93054**

Ber, G. Z. *see* **Arutyunov, A. V.; et al., 89b:93054**

Bhattacharyya, Shankar Prashad *see* **Shafai, B., 89j:93041**

Bordyug, B. A. Computer algebra methods in problems of the control of the motion of walking apparatus. (Russian) **89k:93079**

Chen, Chun Hui On a numerical method for robust pole assignment by output feedback. (Chinese. English summary) **89j:93039**

Clarke, D. W. *see* **Liann, F. R.,** (Not in MR) *and* **Tsang, T. T. C.,** (Not in MR)

El Alami, Jamila *see* **El Alami, Noureddine,** (**89c:00031**)

El Alami, Noureddine (*with* El Alami, Jamila) Algorithme de commande pour les systèmes énergétiques "presque bilinéaires" distribués (SPB) conductifs, convectifs, radiatifs. (English summary) [Control algorithm for conductive, convective, radiative "almost bilinear" distributed energy systems] (*see* **89c:00031**)

Gajic, Z. Quasi-decentralized multimodel estimation of linear systems. (*see* **89c:00031**)

— (*with* Petkovski, Dj.; Harkara, N.) The recursive algorithm for the optimal static output feedback control problem of linear singularly perturbed systems. (Not in MR)

— *see also* **Grodt, T., 89d:93039**

Gibson, James S. (*with* Rosen, I. G.) Numerical approximation for the infinite-dimensional discrete-time optimal linear-quadratic regulator problem. **89a:93020**

Goh, C. J. (*with* Teo, Kok-Lay) Control parametrization: a unified approach to optimal control problems with general constraints. **89a:93021**

Grodt, T. (*with* Gajic, Z.) The recursive reduced-order numerical solution of the singularly perturbed matrix differential Riccati equation. **89d:93039**

Guo, Lei (*with* Xia, Lige; Liu, Yi) Recursive algorithm for the computation of the H^∞-norm of polynomials. **89i:93043**

Harkara, N. *see* **Gajic, Z.; et al.,** (Not in MR)

Huang, Dao Ping *see* **Zhu, Xue Feng; et al.,** (Not in MR)

Hwang, Thong Shing *see* **Yeh, Fang Bo, 89e:93080**

Ishchenko, A. A. (*with* Liberol', B. D.; Rudenko, O. G.) Investigation of the convergence of identification algorithms with memory. (Not in MR)

Janecki, Dariusz Parameter convergence of adaptive control algorithms for plants with purely deterministic disturbances. (Russian and Polish summaries) **89k:93080**

Javorský, Petr An algorithm for optimal control of nonlinear systems. (*see* **89g:00018**)

Jiang, Zhi Hua Block pulse function approach for the identification of Hammerstein model nonlinear systems. **89k:93081**

Kacewicz, B. Z. (*with* Milanese, M.; Vicino, A.) Conditionally optimal algorithms and estimation of reduced order models. **89c:93039**

Kalinin, A. I. An algorithm for the asymptotic solution of a quasilinear time-optimality problem. (Russian. English summary) **89d:93040**

Kapustyan, V. E. *see* **Zaĭtsev, V. G.,** (Not in MR)

Kimura, Morishige Convergence of the doubling algorithm for the discrete-time algebraic Riccati equation. **89j:93040**

Liann, F. R. (*with* Clarke, D. W.) Application of explicit criterion minimization in adaptive control. (Not in MR)

Liberol', B. D. *see* **Ishchenko, A. A.; et al.,** (Not in MR)

Lim, Cheng-Chew *see* **Teo, Kok-Lay, 89a:93022**

Liu, Yi *see* **Guo, Lei; et al., 89i:93043**

Liu, Yong Qing *see* **Zhu, Xue Feng; et al.,** (Not in MR)

Milanese, M. *see* **Kacewicz, B. Z.; et al., 89c:93039**

Outrata, Jiří V. On numerical solution of optimal control problems with nonsmooth objectives: application to economic models. **89m:93027**

Petkovski, Dj. *see* **Gajic, Z.; et al.,** (Not in MR)

Polderman, J. W. Avoiding the nonadmissible region of the parameter space in indirect adaptive control algorithms. (*see* **89c:00031**)

Pytlak, Radosław Strong variation algorithm for minimax control. (*see* **89c:00031**)

Rosen, I. G. *see* **Gibson, James S., 89a:93020**

Rudenko, O. G. *see* **Ishchenko, A. A.; et al.,** (Not in MR)

Shafai, B. (*with* Bhattacharyya, Shankar Prashad) An algorithm for pole assignment in high order multivariable systems. **89j:93041**

Sukhov, E. G. Cellular parallel method for solving linear algebraic systems of equations. (Not in MR)

Sun, Ji Guang On numerical methods for robust pole assignment in control system design. II. **89j:93042**

Teo, Kok-Lay (*with* Lim, Cheng-Chew) Time optimal control computation with application to ship steering. **89a:93022**

— *see also* **Goh, C. J., 89a:93021**

Thibault, R. Closed invariant curves of a noncontinuously differentiable recurrence. **89k:93082**

Tkachev, A. M. A numerical solution method for a linear optimal response speed problem. (Not in MR)

Tsang, T. T. C. (*with* Clarke, D. W.) Generalised predictive control with input constraints. (Not in MR)

Tu, Jian (*with* Wang, Yong Ji) A new method for solving Riccati matrix equations—the matrix sign function method. (Chinese. English summary) **89k:93083**

Tynyanskiĭ, N. T. *see* **Arutyunov, A. V.; et al., 89b:93054**

Vicino, A. *see* **Kacewicz, B. Z.; et al., 89c:93039**

Vlassenbroeck, Jacques A Chebyshev polynomial method for optimal control with state constraints. **89f:93013**

Wang, Yong Ji *see* **Tu, Jian, 89k:93083**

Wu, Guang Yu *see* **Zhang, Yu Ming^1,** (Not in MR)

Xia, Lige *see* **Guo, Lei; et al., 89i:93043**

Yeh, Fang Bo (*with* Hwang, Thong Shing) A computational algorithm for the super-optimal solution of the model matching problem. **89e:93080**

Zaĭtsev, V. G. (*with* Kapustyan, V. E.) Application of the method of characteristics for constructing optimal controls in the one-phase Stefan problem. (Not in MR)

Zhang, Yu Ming^1 (*with* Wu, Guang Yu) An exact recursive algorithm for computing the parameters of linear difference models of increasing orders. (Chinese. English summary) (Not in MR)

Zhou, Yuan The RSO method for solving Riccati equations and its application to optimal control of power systems. (Chinese. English summary) **89g:93040**

Zhu, Xue Feng (*with* Huang, Dao Ping; Liu, Yong Qing) Modified dynamic matrix control. (Chinese summary) (Not in MR)

Items with secondary classifications in 93B40

Aĭsagaliev, S. A. *see* **Dzholdasbekov, U. A., 89a:49031**

Akian, Marianne Résolution numérique d'équations d'Hamilton-Jacobi-Bellman au moyen d'algorithmes multigrilles et d'itérations sur les politiques. (English summary) [Numerical solution of Hamilton-Jacobi-Bellman equations by means of multigrid algorithms and policy iterations] **89i:93122**

Aleksandrov, Vladimir Mikhaĭlovich Solution of optimal control problems on the basis of the quasi-optimal control method. (Russian) **89e:93081**

Amin, M. H. (*with* Hassan, M. M.) Determination of invariant zeros and zero directions of the system $S(A,B,C,E)$. **89k:93099**

Ammar, Gregory S. (*with* Gragg, William B.) The implementation and use of the generalized Schur algorithm. **89b:65112**

Aoki, Takashi *see* **Ohta, Hirobumi; et al.,** (Not in MR)

Apostolyuk, A. S. (*with* Bobrov, B. F.; Bordyug, B. A.; Gradetskiĭ, A. V.; Larin, V. B.; Safronov, Yu. G.; Solov'ev, V. S.) Optimization of the de Prony method for the identification of linear dynamical systems. (Russian) (Not in MR)

Baginov, I. P. *see* **Gurman, V. I.; et al., 89h:65099**

Banks, H. T. (*with* Rosen, I. G.) Computational methods for the identification of spatially varying stiffness and damping in beams. **89c:93034**

Barbu, Viorel A product formula approach to nonlinear optimal control problems. **89f:93023**

Baturin, V. A. *see* **Gurman, V. I.; et al., 89h:65099**

Bauman, E. V. Variational methods of piecewise approximation. (*see* **89c:00031**)

Beelen, Th. G. J. (*with* Van Dooren, Paul) A numerical method for deadbeat control of generalized state-space systems. **89b:93062**

— (*with* van den Hurk, G. J.; Praagman, C.) A new method for computing a column reduced polynomial matrix. (Not in MR)

Beĭko, I. V. (*with* Zin′ko, P. N.; Lepekha, N. P.) Problems of multiple identification of control systems with incomplete data. (Russian) (Not in MR)

Bernussou, J. *see* **Geromel, J. C., 89c:93007**

Bertoni, G. *see* **Penati, M. E.; et al., 89f:93016**

Binder, Z. *see* **Noyer, P., 89j:93003**

Bingulac, S. (*with* Chow, J. H.; Winkelman, J. R.) Simultaneous generation of sensitivity functions—transfer function matrix approach. **89i:93036**

Bistrickas, V. Approximate solution of a discrete control optimization problem. **89k:93139**

Bobrov, B. F. *see* **Apostolyuk, A. S.; et al.,** (Not in MR)

Bobryshev, A. G. *see* **Gurman, V. I.; et al., 89h:65099**

Bordyug, B. A. *see* **Apostolyuk, A. S.; et al.,** (Not in MR)

Botkin, N. D. (*with* Patsko, V. S.) Numerical solution of linear differential games. **89g:90258**

Bourdache-Siguerdidjane, Houria On the synthesis of optimal nonlinear feedback laws. **89a:93025**

Butin, A. A. *see* **Gurman, V. I.; et al., 89h:65099**

Cameron, R. G. New pole assignment algorithm with reduced norm feedback matrix. **89b:93059**

Campbell, Stephen L. Control problem structure and the numerical solution of linear singular systems. **89h:34061**

Chang, Shi Chung (*with* Chang, Tsu Shuan; Luh, Peter B.) A hierarchical decomposition for large-scale optimal control problems with parallel processing structure. **89k:93009**

Chang, Tsu Shuan *see* **Chang, Shi Chung; et al., 89k:93009**

Ch'ên, Ch'i Chung *see* **Huang, Ch'i; et al., 89k:93140**

Chen, Goong (*with* Tsai, Ying-Liang) The boundary element numerical method for two-dimensional linear quadratic elliptic problems. I. Neumann control. **89a:65145**

Cherneva-Popova, Z. (*with* Genov, Yu.) Optimal control of an active vibration-resistant system. (Russian) **89h:49025**

Chernous′ko, F. L. ★ Оценивание фазового состояния динамических систем. (Russian) [Estimation of the phase state of dynamical systems] **89k:49028**

Chow, J. H. *see* **Bingulac, S.; et al., 89i:93036**

Cristi, Roberto Parallel processing in the adaptive control of linear systems. **89d:93059**

Cybenko, George Load balancing and partitioning for parallel signal processing and control algorithms. **89m:68056**

Danilina, E. V. *see* **Gurman, V. I.; et al., 89h:65099**

Danković, B. *see* **Kocić, Ljubiša M., 89g:93033**

Demmel, James W. (*with* Kågström, Bo) Accurate solutions of ill-posed problems in control theory. **89b:65131**

Derenko, N. V. *see* **Gurman, V. I.; et al., 89h:65099**

Doraiswami, R. *see* **Jiang, Jin, 89k:93064**

Dunn, J. C. *see* **Gawande, M., 89h:90198**

Dushin, K. B. *see* **Gurman, V. I.; et al., 89h:65099**

Dykhta, V. A. *see* **Gurman, V. I.; et al., 89h:65099**

Dzholdasbekov, U. A. (*with* Aĭsagaliev, S. A.) On the investigation of the dynamics of the control of robots. Stabilization of motion. (Russian. Kazakh summary) **89a:49031**

Eid, Shawki Z. *see* **Mahmoud, Magdi S., 89b:90084**

El Bagdouri, M. Commande en temps optimal de l'équation non linéaire de la chaleur. (English summary) [Time-optimal control of the nonlinear heat equation] **89f:93022**

Fedorova, E. Yu. *see* **Gurman, V. I.; et al., 89h:65099**

Forsling, Göran (*with* Järmark, Bernt) Optimal fuselage aiming of a modern fighter aircraft. (*see* **89b:93010**)

Fowler, Thomas B. Application of stochastic control techniques to chaotic nonlinear systems. **89j:93140**

Fuhrmann, Daniel R. An algorithm for subspace computation, with applications in signal processing. **89m:65039**

Gabasov, R. (*with* Kostyukova, O. I.; Kruchenok, Yu. L.) Optimization of a linear dynamical system with nonlinear input. (Russian. English summary) **89h:49002**

Gardiner, Judith D. *see* **Laub, Alan J., (89g:93002)**

Gawande, M. (*with* Dunn, J. C.) A projected Newton method in a Cartesian product of balls. **89h:90198**

Genov, Yu. *see* **Cherneva-Popova, Z., 89h:49025**

Geromel, J. C. (*with* Bernussou, J.) Parametrical optimization approach for decentralized regulation of discrete systems. **89c:93007**

Ghosh, Bijoy Kumar *see* **Lirov, Yuval, 89a:93018**

Gibson, James S. (*with* Rosen, I. G.) Approximation of discrete-time LQG compensators for distributed systems with boundary input and unbounded measurement. **89e:93090**

Goh, C. J. *see* **Teo, Kok-Lay, 89g:49031**

Golichev, I. I. Solution of some optimal control problems by the iterative method. (Russian) **89h:49003**

Goodwin, Graham C. *see* **de Souza, Carlos E.; et al., 89d:34130**

Gourishankar, V. G. *see* **Zaheer-uddin, M.; et al.,** (Not in MR)

Gradetskiĭ, A. V. *see* **Apostolyuk, A. S.; et al.,** (Not in MR)

Gragg, William B. *see* **Ammar, Gregory S., 89b:65112**

Graham, John W. (*with* Sarwal, S. N.) A computational model for a class of distributed parameter system. **89a:35049**

Gregory, John Numerical methods for extremal problems in the calculus of variations and optimal control theory. **89a:49003**

Gurman, V. I. (*with* Baturin, V. A.; Moskalenko, A. I.; Baginov, I. P.; Bobryshev, A. G.; Butin, A. A.; Danilina, E. V.; Derenko, N. V.; Dushin, K. B.; Dykhta, V. A.; Kolokol′nikova, G. A.; Konstantinov, G. N.; Mel′nik, V. V.; Nikiforova, L. N.; Ovsyannikova, N. A.; Rasina, I. V.; Rozenraukh, D. M.; Urbanovich, D. E.; Fedorova, E. Yu.) ★ Методы улучшения в вычислительном эксперименте. (Russian) [Methods of improving [control] in numerical experiments] **89h:65099**

Hara, Shinji (*with* Yamamoto, Yutaka; Omata, Tohru; Nakano, Michio) Repetitive control system: a new type servo system for periodic exogenous signals. **89d:93056**

Hassan, M. M. *see* **Amin, M. H., 89k:93099**

Hendawy, Z. M. *see* **Lin, Jie; et al., 89d:93003** *and* (Not in MR)

Hosoe, S. (*with* Zhang, Feifei) An elementary state space approach to RH^∞ optimal control. **89m:93017**

Huang, Ch'i (*with* Ch'ên, Ch'i Chung; Shih, Yen P'ing) Analysis and optimal control of discrete time-varying systems via Hahn polynomials. (Chinese summary) **89k:93140**

van den Hurk, G. J. *see* **Beelen, Th. G. J.; et al.,** (Not in MR)

Hwang, C. C. (*with* Pan, Ching Tsai) Comparison of finite element methods for the diffusion problem. **89d:49030**

Ibiejugba, M. A. (*with* Rubio, J. E.) A penalty optimization technique for a class of regulator problems. **89k:49025**

Icart, S. (*with* Lafay, J. F.) Design of a minimal precompensator for the decoupling problem. **89c:93042**

Järmark, Bernt Optimal turn of an aircraft. (*see* **89b:93010**)

— *see also* **Forsling, Göran, (89b:93010)**

Jiang, Jin (*with* Doraiswami, R.) Direct and blockwise identification of decomposable systems using recursive least-squares algorithm. **89k:93064**

Johansson, Rolf Stability of direct adaptive control with RLS-identification. **89c:93050**

Kågström, Bo *see* **Demmel, James W., 89b:65131**

Kandilakis, Dimitrios (*with* Papageorgiou, Nikolaos S.) Nonsmooth analysis and approximation. **89c:49012**

Khripunov, A. P. *see* **Taras′ev, A. M.; et al., 89h:90280**

Kocić, Ljubiša M. (*with* Danković, B.) Process identification using *B*-splines. **89g:93033**

Kolokol′nikova, G. A. *see* **Gurman, V. I.; et al., 89h:65099**

Konstantinov, G. N. Sufficient conditions for optimality involving the Krotov vector function. I. (Russian. English summary) **89a:49020**

— *see also* **Gurman, V. I.; et al., 89h:65099**

Kortmann, M. (*with* Unbehauen, H.) Structure detection in the identification of nonlinear systems. (French summary) (Not in MR)

Kostyukova, O. I. *see* **Gabasov, R.; et al., 89h:49002**

Kovchin, S. A. Analysis of component errors in discrete automatic control systems. (Russian) **89i:93077**

Krotov, V. F. A technique of global bounds in optimal control theory. (Russian and Polish summaries) **89k:93004**

Kruchenok, Yu. L. *see* **Gabasov, R.; et al., 89h:49002**

Krut′ko, P. D. (*with* Lakota, N. A.) Algorithms for the trajectory control of the movement of manipulation robots. (Russian) **89h:70011**

Kryazhimskiĭ, A. V. (*with* Osipov, Yu. S.) Inverse problems in dynamics and control models. (Russian) **89m:93010**

Lafay, J. F. *see* **Icart, S., 89c:93042**

Lakota, N. A. *see* **Krut′ko, P. D., 89h:70011**

Larin, V. B. *see* **Apostolyuk, A. S.; et al.,** (Not in MR)

Laub, Alan J. (*with* Gardiner, Judith D.) Hypercube implementation of some parallel algorithms in control. (*see* **89g:93002**)

Lebedev, A. L. Convergence with respect to a functional of discrete approximations in controllable systems with delay. (Russian. English summary) **89e:34134**

Lee, Allan Yeow-Nam Neighboring extremals of dynamic optimization problems with path equality constraints. **89h:49021**

Lepekha, N. P. *see* **Beĭko, I. V.; et al.,** (Not in MR)

Li, Tsu T'ien *see* **Tsay, Shuh Chuan; et al., 89d:93024**

Lin, Jie (*with* Hendawy, Z. M.; Roberts, P. D.) Extension of integrated system optimization and parameter estimation to hierarchical control of steady state systems with output-dependent constraints. **89d:93003**

— (*with* Hendawy, Z. M.; Roberts, P. D.) New model-based double-loop iterative strategy for integrated system optimization and parameter estimation of large-scale industrial processes. (Not in MR)

Lirov, Yuval (*with* Ghosh, Bijoy Kumar) Simultaneous identification of linear systems: a heuristic approach. **89a:93018**

Luh, Peter B. *see* **Chang, Shi Chung; et al., 89k:93009**

Mahmoud, Magdi S. (*with* Eid, Shawki Z.) Optimization of freeway traffic control problems. **89b:90084**

Maksimov, V. I. Positional modeling of some parameters of functional-differential systems. (Russian) **89d:93037**

— Positional modeling of unbounded controls for nonlinear distributed systems with dissipation. **89f:93015**

Marple, S. Lawrence, Jr. ★ Digital spectral analysis with applications. **89c:93001**

Martynyuk, D. I. (*with* Yurchik, A. I.) Solution of a periodic control problem for a system of difference equations by a method of two-sided approximations. (Russian) **89d:49039**

Mayne, D. Q. *see* **de Souza, Carlos E.; et al., 89d:34130**

Mel′nik, V. V. *see* **Gurman, V. I.; et al., 89h:65099**

Melvin, W. W. *see* **Miele, A.; et al., 89k:93147**

Menaldi, José-Luis (*with* Rofman, Edmundo) An algorithm to compute the viscosity solution of the Hamilton-Jacobi-Bellman equation. **89h:49024**

Miele, A. (*with* Wang, Tong; Tzeng, C. Y.; Melvin, W. W.) Abort landing guidance trajectories in the presence of windshear. **89k:93147**

Miminis, George S. (*with* Paige, Chris C.) A direct algorithm for pole assignment of time-invariant multi-input linear systems using state feedback. **89e:93116**

Moskalenko, A. I. *see* **Gurman, V. I.; et al., 89h:65099**

Murota, Kazuo ★ Systems analysis by graphs and matroids. **89b:93017**

Nakano, Michio *see* **Hara, Shinji; et al., 89d:93056**

Neittaanmäki, Pekka (*with* Tiba, D.) On the approximation of the boundary control in two-phase Stefan-type problems. (Russian and Polish summaries) **89j:49025**

Nikiforova, L. N. *see* **Gurman, V. I.; et al., 89h:65099**

Nikiforuk, P. N. *see* **Ohta, Hirobumi; et al.,** (Not in MR)

Niu, Shao Hua *see* **Xiao, De Yun,** (Not in MR)

Nour Eldin, H. A. (*with* Stelter, R.) A fast algorithm for the simulation of gas flow in long pipelines. (Russian summary) (Not in MR)

Noyer, P. (*with* Binder, Z.) An augmented Lagrangian tracking method in hierarchical optimization. **89j:93003**

Ohta, Hirobumi (*with* Aoki, Takashi; Nikiforuk, P. N.) Spillover prevention and control of flexible structures using modal filters. (Not in MR)

Omata, Tohru *see* **Hara, Shinji; et al., 89d:93056**

Osipov, Yu. S. *see* **Kryazhimskiĭ, A. V., 89m:93010**

Ovsyannikova, N. A. *see* **Gurman, V. I.; et al., 89h:65099**

Paige, Chris C. *see* **Miminis, George S., 89e:93116**
Palaniswami, M. *see* **de Souza, Carlos E.; et al., 89d:34130**
Pan, Ching Tsai *see* **Hwang, C. C., 89d:49030**
Pan, Ya Ming (*with* Zhao, Xiao Ming) The use of the "partitioned matrix method" for the fast calculation of the pole placement adaptive control law. (Chinese. English summary) **89c:93046**
Papageorgiou, Nikolaos S. *see* **Kandilakis, Dimitrios, 89c:49012**
Patsko, V. S. *see* **Botkin, N. D., 89g:90258** *and* **Zarkh, M. A., 89g:90260**
Penati, M. E. (*with* Tibaldi, M.; Bertoni, G.) Reduced order regulators for large scale systems: a numerical implementation for stochastic and deterministic systems. **89f:93016**
Petrov, V. P. *see* **Vyazovik, A. P., 89e:93028**
Polak, Elijah (*with* Stimler, Daniel M.) Majorization: a computational complexity reduction technique in control system design. **89m:49061**
Potts, Renfrey B. *see* **Tan, H. H., 89h:49030**
Praagman, C. *see* **Beelen, Th. G. J.; et al.,** (Not in MR)
Rao, Nageswara S. V. (*with* Viswanadham, N.) An efficient level-structuring algorithm for large scale systems. (Not in MR)
Rasina, I. V. *see* **Gurman, V. I.; et al., 89h:65099**
Razumikhin, B. S. ★ Classical principles and optimization problems. **89b:90116**
Rink, R. E. *see* **Zaheer-uddin, M.; et al.,** (Not in MR)
Roberts, P. D. *see* **Lin, Jie; et al., 89d:93003** *and* (Not in MR)
Rofman, Edmundo *see* **Menaldi, José-Luis, 89h:49024**
Rosen, I. G. *see* **Banks, H. T., 89c:93034** *and* **Gibson, James S., 89e:93090**
Rozenraukh, D. M. *see* **Gurman, V. I.; et al., 89h:65099**
Rubio, J. E. (*with* Wilson, D. A.) Theory of moments and the control of heat flow. (Not in MR)
— *see also* **Ibiejugba, M. A., 89k:49025**
Saeki, Masami Methods of solving a polynomial equation for an H_∞ optimal control problem for a single-input single-output discrete-time system. **89j:93025**
Safronov, Yu. G. *see* **Apostolyuk, A. S.; et al.,** (Not in MR)
Sarwal, S. N. *see* **Graham, John W., 89a:35049**
Schlöder, Johannes P. ★ Numerische Methoden zur Behandlung hochdimensionaler Aufgaben der Parameteridentifizierung. (German) [Numerical methods for the treatment of high-dimensional problems in parameter identification] **89b:93049**
de la Sen, Manuel Application of iterative suboptimal strategies for improving adaptation transients in adaptive systems. **89b:93071**
Shih, Yen P'ing *see* **Huang, Ch'i; et al., 89k:93140**
Solov'ev, V. S. *see* **Apostolyuk, A. S.; et al.,** (Not in MR)
de Souza, Carlos E. (*with* Goodwin, Graham C.; Mayne, D. Q.; Palaniswami, M.) An adaptive control algorithm for linear systems having unknown time delay. **89d:34130**
Spathopoulos, M. P. A two-level parameter estimation algorithm for large-scale systems. **89d:93096**
Stelter, R. *see* **Nour Eldin, H. A.,** (Not in MR)
Stimler, Daniel M. *see* **Polak, Elijah, 89m:49061**
Styczeń, Krystyn Algebraic approximation of smooth optimal cyclic control problems. **89k:93054**
Sun, Shi Qian A new algorithm for matrix decomposition in linear, time-invariant singular systems and its applications in sensitivity calculations. (Chinese. English summary) (Not in MR)
Tagiev, R. K. Discretization and regularization of an optimal control problem for a hyperbolic equation. (Russian) **89g:49044**
Tan, H. H. (*with* Potts, Renfrey B.) A discrete calculus of variations algorithm. **89h:49030**
Taras'ev, A. M. (*with* Ushakov, V. N.; Khripunov, A. P.) On a computational algorithm for solving game control problems. **89h:90280**
Teo, Kok-Lay (*with* Goh, C. J.) On constrained optimization problems with nonsmooth cost functionals. **89g:49031**
Tiba, D. *see* **Neittaanmäki, Pekka, 89j:49025**
Tibaldi, M. *see* **Penati, M. E.; et al., 89f:93016**
Tsai, M.-C. *see* **Yeh, Fang Bo; et al., 89a:93019**
Tsai, Ying-Liang *see* **Chen, Goong, 89a:65145**
Tsay, Shuh Chuan (*with* Wu, I. Long; Li, Tsu T'ien) Optimal control of linear time-delay systems via general orthogonal polynomials. **89d:93024**
Tzeng, C. Y. *see* **Miele, A.; et al., 89k:93147**
Unbehauen, H. *see* **Kortmann, M.,** (Not in MR)
Urbanovich, D. E. *see* **Gurman, V. I.; et al., 89h:65099**
Ushakov, V. N. *see* **Taras'ev, A. M.; et al., 89h:90280**
Van Dooren, Paul *see* **Beelen, Th. G. J., 89b:93062**
Van Dooren, R. Numerical study of the controlled van der Pol oscillator in Chebyshev series. (French summary) **89a:49033**
Viswanadham, N. *see* **Rao, Nageswara S. V.,** (Not in MR)
Vyazovik, A. P. (*with* Petrov, V. P.) A nonlinear control-observation problem. (Russian) **89e:93028**
Wang, Tong *see* **Miele, A.; et al., 89k:93147**
Wang, Xia Chao *see* **Yang, Xue Shi,** (Not in MR)
Wilson, D. A. *see* **Rubio, J. E.,** (Not in MR)
Winkelman, J. R. *see* **Bingulac, S.; et al., 89i:93036**
Wong, K. H. Convergence analysis of a computational method for time-lag optimal control problems. **89e:34136**
Wu, I. Long *see* **Tsay, Shuh Chuan; et al., 89d:93024**
Xiao, De Yun (*with* Niu, Shao Hua) An implementation of the instrumental variable method for simultaneous identification of model order and parameters. (Chinese. English summary) (Not in MR)
Yamamoto, Yutaka *see* **Hara, Shinji; et al., 89d:93056**
Yang, Ciann Dong *see* **Yeh, Fang Bo; et al., 89a:93019**
Yang, Xue Shi (*with* Wang, Xia Chao) A numerical analysis of dynamic responses for transpiration control. (Chinese. English summary) (Not in MR)
Yeh, Fang Bo (*with* Yang, Ciann Dong; Tsai, M.-C.) Unified approach to H^∞-optimization, Hankel approximation and balanced realization problems. **89a:93019**
Yurchik, A. I. *see* **Martynyuk, D. I., 89d:49039**
Zaheer-uddin, M. (*with* Gourishankar, V. G.; Rink, R. E.) Dynamic suboptimal control of a heat pump/heat storage system. (Not in MR)
Zarkh, M. A. (*with* Patsko, V. S.) The second player's strategy in a linear differential game. **89g:90260**
Zhang, A Bu Model algorithmic control with time delay compensator. (Chinese. English summary) **89a:34091**
Zhang, Feifei *see* **Hosoe, S., 89m:93017**
Zhao, Xiao Ming *see* **Pan, Ya Ming, 89c:93046**
Zin'ko, P. N. *see* **Beĭko, I. V.; et al.,** (Not in MR)

93B50 Synthesis and design problems

Ackermann, J. E. Design of robust controllers by multimodel methods. **89c:93040**
Aleksandrov, Vladimir Mikhaĭlovich Solution of optimal control problems on the basis of the quasi-optimal control method. (Russian) **89e:93081**
Al'khamov, R. R. A problem of the terminal control of composite systems. (Russian) (*see* **89c:00022**)
Aminov, A. B. *see* **Sirazetdinov, T. K.; et al., 89e:93104**
Anakwa, W. K. N. (*with* Swamy, M. N. S.) Equivalent cascade versions of observer-based controllers for SISO and MIMO linear systems. (Not in MR)
Aplevich, J. D. (*with* Morris, Kirsten Anna) Controller parameterization and recursive design using implicity systems. **89i:93044**
Araki, Mituhiko *see* **Hagiwara, Tomomichi, 89e:93091**
Artyushin, L. M. Search for optimal laws for the change of controlling forces in problems of the control of dynamical systems. **89e:93082**
Arutyunov, S. K. Design of nonlinear structurally stable control systems (an adaptive modeling method). (Russian) **89k:93084**
Badr, R. I. (*with* Hassan, M. F.; Bernussou, J.; Bilal, A. Y.) Time-domain robustness and performance optimisation of linear quadratic control problems. **89j:93043**
Bakan, G. M. (*with* Volosov, V. V.) On the solution of the problem of the design of a system of programmed control when the noise in the channel of measurement is bounded in modulus. (Russian) **89d:93041**
Bartolini, G. (*with* Zolezzi, T.) Asymptotic linearization of uncertain systems by variable structure control. **89a:93023**
Beale, Guy O. *see* **Polites, Michael E.,** (Not in MR)
Belyanin, P. N. (*with* Bobrova, I. V.; Gonsales-Sabater, A.) The problem of synthesizing engineering CAD for flexible manufacturing systems. (Not in MR)
Benzaouia, Abdellah (*with* Burgat, Christian) Regulator problem for linear discrete-time systems with nonsymmetrical constrained control. **89i:93045**
— (*with* Burgat, Christian) The regulator problem for a class of linear systems with constrained control. **89d:93042**
Bernstein, Dennis S. *see* **Haddad, Wassim M.,** (Not in MR)
Bernussou, J. *see* **Badr, R. I.; et al., 89j:93043**
Bertoni, G. *see* **Penati, M. E.; et al., 89f:93016**
Bessonov, G. A. (*with* Korobov, V. I.; Sklyar, G. M.) The problem of the stable synthesis of bounded controls for a class of nonstationary systems. **89k:93085**
Bilal, A. Y. *see* **Badr, R. I.; et al., 89j:93043**
Bitsoris, G. *see* **Vassilaki, M.; et al.,** (Not in MR)
Bobrova, I. V. *see* **Belyanin, P. N.; et al.,** (Not in MR)
Bodyanskiĭ, E. V. Synthesis of multidimensional adaptive regulators on the basis of a multilevel approach. (Russian) **89e:93083**
— Design of multidimensional pseudodual adaptive controllers. (Russian. English summary) **89e:93084**
Boĭchuk, B. G. Deductive synthesis of linear automatic control systems. (Not in MR)
Boĭchuk, L. M. Synthesis of two-level coordinating control systems using adjoint projection operators. **89a:93024**
Bonnard, Bernard On singular extremals in the time minimal control problem. (*see* **89b:93010**)
Bourdache-Siguerdidjane, Houria On the synthesis of optimal nonlinear feedback laws. **89a:93025**
Burev, D. D. A discrete analytic solution of a smooth nonlinear problem of optimal control. (Russian) **89i:93046**
Burgat, Christian *see* **Benzaouia, Abdellah, 89d:93042** *and* **89i:93045**
Byrnes, Christopher I. (*with* Castro-Linares, Rafael; Isidori, A.) Linear model matching with prescribed tracking error and internal stability for nonlinear systems. **89e:93085**
Byun, Kuk-Whan *see* **Wie, Bong,** (Not in MR)
Caines, Peter E. *see* **Sabourin, Michael G., 89e:93102**
Calise, Anthony J. *see* **Moerder, Daniel D., 89e:93099** *and* **Kramer, Friedrich S., 89i:93049**
Castro-Linares, Rafael *see* **Byrnes, Christopher I.; et al., 89e:93085**
Chang, Fu Chüeh *see* **T'u, Shih Hsiung; et al.,** (Not in MR)
Chang, Hsiang *see* **T'u, Shih Hsiung; et al.,** (Not in MR)
Ch'ên, Miao Shêng (*with* Li, Tsu T'ien) Performance improvement of optimal regulators incorporating Kalman filters. **89e:93086**
Ch'ên, Po Hsien (*with* Kuo, Chih Tsung) Multivariable control design for stochastic systems with saturated driving: LQG optimal approach. **89a:93026**
Ch'ên, Wu T'ung *see* **T'u, Shih Hsiung; et al.,** (Not in MR)
Chen, Ye-Hwa Robust output feedback controller: direct design. **89h:93021**
— Decentralized robust control system design for large-scale uncertain systems. (Not in MR)
Chiang, Hsing Ya *see* **Lin, Chung Ch'ê,** (Not in MR)
Chotai, A. (*with* Owens, D. H.) Nonadaptative control of unknown multivariable systems. (Russian summary) **89e:93087**
Chuang, Yao T'ang *see* **Wang, Shêng Tê; et al., 89a:93028**
Colgate, J. E. (*with* Hogan, N.) Robust control of dynamically interacting systems. **89k:93086**
Commault, C. (*with* Descusse, J.; Dion, J. M.; Lafay, J. F.; Malabre, M.) Influence de la structure à l'infini des systèmes linéaires sur la solution des problèmes de commande. (English summary) [Influence of the structure at infinity of linear systems on the solution of control problems] **89k:93087**
Cui, Ping Yuan *see* **Wu, Guang Yu,** (Not in MR)

Dai, Li Yi (*with* Wang, Chao Zhu) Design of a normal dynamic compensator for generalized systems. (Chinese) (Not in MR)

Darwish, M. G. (*with* Soliman, Hisham M.) Design of decentralized reliable controllers for large-scale systems. (Not in MR)

Dauphin-Tanguy, G. (*with* Rotella, F.) Improvement in near-optimum regulators for singularly perturbed systems. **89j:93044**

Davis, J. H. *see* **Hirschorn, Ronald M., 89k:93092**

Deĭch, V. G. Controllers with optimal structure in systems with lumped and distributed parameters. **89j:93045**

De La Salle, S. *see* **Grimble, M. J.; et al., 89k:93090**

Demircioğlu, H. (*with* Gawthrop, P. J.) Continuous-time relay self-tuning control. (Not in MR)

Descusse, J. *see* **Commault, C.; et al., 89k:93087**

Desoer, C. A. (*with* Gündeş, A. N.) Bicoprime factorizations of the plant and their relation to right- and left-coprime factorizations. (Not in MR)

Dib, H. M. *see* **Shieh, L. S.; et al., 89e:93103**

Diduch, C. P. (*with* Doraiswami, R.) Role of sample period in transients, robustness and sensitivity in optimally designed digital control systems. (Not in MR)

Dion, J. M. *see* **Commault, C.; et al., 89k:93087**

Doraiswami, R. *see* **Diduch, C. P.**, (Not in MR)

Dzieliński, Andrzej Simple method for two-dimensional deadbeat controller design from $N \cdot M$ impulse response values. (Not in MR)

El Arabawy, I. F. *see* **Sebakhy, O. A.; et al.**, (Not in MR)

El Singaby, M. I. *see* **Sebakhy, O. A.; et al.**, (Not in MR)

Endrikat, C. (*with* Hartmann, I.) Optimal design of discrete-time MIMO systems in the frequency domain. (Not in MR)

Engell, Sebastian (*with* Konik, Dieter) Decoupling techniques for decentralized control systems design. **89e:93088**

Ferreira, Pedro M. G. Optimal robust multi-purpose general feedback systems. (*see* **89c:00031**)

— DDP and model following problem revisited. **89k:93088**

Gasanov, È. È. (*with* Kazymov, S. S.) Modal control of multidimensional objects. (Russian. English and Azerbaijani summaries) **89e:93089**

Gawthrop, P. J. *see* **Demircioğlu, H.**, (Not in MR)

Ghosh, Bijoy Kumar A geometric approach to simultaneous system design: parameter insensitive disturbance decoupling by state and output feedback. **89c:93041**

Ghosh, Dipankar (*with* Knapp, Charles H.) Measurement selection for linear multivariable control systems. **89k:93089**

Gibson, James S. (*with* Rosen, I. G.) Approximation of discrete-time LQG compensators for distributed systems with boundary input and unbounded measurement. **89e:93090**

Gol'dman, A. Yu. Asymptotic design of control systems with an identifiable coordinate. (Russian. English summary) (Not in MR)

Gonsales-Sabater, A. *see* **Belyanin, P. N.; et al.**, (Not in MR)

Gostev, V. I. Determination of optimal controls for linear controlled objects in digital-regulator control systems. (Not in MR)

Grasselli, Osvaldo Maria (*with* Longhi, Sauro) Disturbance localization by measurement feedback for linear periodic discrete-time systems. **89g:93041**

Grimble, M. J. (*with* De La Salle, S.; Ho, D.) Relationship between internal model control and LQG controller structures. **89k:93090**

Gudzenko, A. B. A method for the synthesis of sliding modes in one-dimensional systems using observers. **89i:93047**

Gündeş, A. N. *see* **Desoer, C. A.**, (Not in MR)

Ha, In Joong The standard decomposed system and noninteracting feedback control of nonlinear systems. **89k:93091**

Haddad, Wassim M. (*with* Bernstein, Dennis S.) Unified optimal projection equations for simultaneous reduced-order, robust modelling, estimation and control. (Not in MR)

Hagiwara, Tomomichi (*with* Araki, Mituhiko) Design of a stable state feedback controller based on the multirate sampling of the plant output. **89e:93091**

Hamanaka, Takashi *see* **Hinamoto, Takao; et al., 89d:93043**

Hammer, Jacob Assignment of dynamics for nonlinear recursive feedback systems. **89m:93028**

Han, Kuang Wei *see* **Tsay, Tain Sou**, (Not in MR)

Hartmann, I. *see* **Endrikat, C.**, (Not in MR)

Hassan, M. F. *see* **Badr, R. I.; et al., 89j:93043**

Helton, J. William (*with* Sideris, Athanasios) Frequency response algorithms for H_∞ optimization with time domain constraints. **89m:93029**

Hennet, J.-C. *see* **Vassilaki, M.; et al.**, (Not in MR)

Hinamoto, Takao (*with* Hamanaka, Takashi; Maekawa, Sadao; Venetsanopoulos, Anastasios N.) Approximation and minimum roundoff noise synthesis of 3-D separable-denominator recursive digital filters. **89d:93043**

Hirschorn, Ronald M. (*with* Davis, J. H.) Global output tracking for nonlinear systems. **89k:93092**

Ho, D. *see* **Grimble, M. J.; et al., 89k:93090**

Hogan, N. *see* **Colgate, J. E., 89k:93086**

Hsü, Chên Fa *see* **Wang, Shêng Tê; et al., 89a:93028**

Hunt, K. J. (*with* Šebek, M.) Optimal multivariable regulation with disturbance measurement feedforward. (Not in MR)

Icart, S. (*with* Lafay, J. F.) Design of a minimal precompensator for the decoupling problem. **89c:93042**

Imanaliev, Z. K. Asymptotic construction of an optimal control for systems with a small parameter. (Russian) **89g:93042**

Ioannou, P. A. (*with* Sun, J.) Theory and design of robust direct and indirect adaptive-control schemes. **89f:93014**

Ishihara, Hirokazu *see* **Konishi, Katsunobu; et al.**, (Not in MR)

Isidori, A. *see* **Byrnes, Christopher I.; et al., 89e:93085**

Izmaĭlov, R. N. Transient processes in linear stationary systems. **89e:93092**

Janecki, Dariusz Stability analysis of Elliott's direct adaptive pole placement. **89m:93030**

Jayasuriya, Suhada (*with* Kee, Chang-Doo) Circle-type criterion for synthesis of robust tracking controllers. **89g:93043**

Karabutov, N. N. *see* **Salyga, V. I., 89k:93094**

Karulina, N. I. Design of an optimal control for a class of bilinear systems. (Russian. English summary) **89b:93055**

Kazerooni, H. Loop shaping design related to LQG/LTR for SISO minimum phase plants. (Not in MR)

Kazymov, S. S. *see* **Gasanov, È. È., 89e:93089**

Kee, Chang-Doo *see* **Jayasuriya, Suhada, 89g:93043**

Khalil, Hassan K. *see* **Kokotović, P. V.; et al., 89h:93022**

Kharalanova, E. A. (*with* Madzharov, N. E.) An adaptive aperiodic regulator. (Bulgarian. English and Russian summaries) (Not in MR)

Khargonekar, Pramod P. (*with* Poolla, K. R.; Tannenbaum, Allen) Periodic controllers for robust control of linear time-invariant plants. **89i:93048**

Khorasani, K. An optimal feedback regulation of nonlinear singularly perturbed systems via slow manifold approach. **89e:93093**

Knapp, Charles H. *see* **Ghosh, Dipankar, 89k:93089**

Kobayashi, Toshihiro (*with* Luo, Zheng Hua) Dynamic shape control for a flexible beam. **89e:93094**

— Remarks on discrete-time servomechanism design for parabolic distributed parameter systems. **89e:93095**

Kokotović, P. V. (*with* Khalil, Hassan K.; O'Reilly, John) ★ Singular perturbation methods in control: analysis and design. **89h:93022**

Konik, Dieter *see* **Engell, Sebastian, 89e:93088**

Konishi, Katsunobu (*with* Maegawa, Kouji; Yoshimura, Toshio; Ishihara, Hirokazu) Multivariable discrete-time model reference adaptive control with input-smoothing property and its application. (Not in MR)

Kopets, M. M. Synthesis of a terminal control in the case of a linear infinite-dimensional system with constant delay in the control. **89d:93044**

Korobov, V. I. (*with* Sklyar, G. M.) A constructive method for solving the problem of synthesis. (Russian) **89j:93046**

— (*with* Sklyar, G. M.) Exact solution of an n-dimensional time-optimality problem. **89g:93044**

— (*with* Sklyar, G. M.) Time-optimality and the power moment problem. **89b:93056**

— *see also* **Bessonov, G. A.; et al., 89k:93085**

Kramer, Friedrich S. (*with* Calise, Anthony J.) Fixed-order dynamic compensation for multivariable linear systems. **89i:93049**

Kubic, William L., Jr. (*with* Stein, Fred P.) A theory of design reliability using probability and fuzzy sets. **89d:93045**

Kuhn, Udo (*with* Schmidt, Günther) Fresh look into the design and computation of optimal output feedback controls for linear multivariable systems. **89e:93096**

Kuo, Chih Tsung *see* **Ch'ên, Po Hsien, 89a:93026**

Kuo, Tê Shêng *see* **Wang, Shêng Tê; et al., 89a:93028**

Kurbanshoev, S. Z. Design of optimal control for systems of differential equations with holomorphic right-hand side. (Russian. Tajiki summary) (Not in MR)

Lafay, J. F. *see* **Icart, S., 89c:93042** *and* **Commault, C.; et al., 89k:93087**

Lee, E. B. (*with* You, Yun Cheng) Optimal syntheses for infinite-dimensional linear delayed state-output systems: a semicausality approach. **89i:93050**

Lee, Shiow Harn *see* **Li, Tsu T'ien, 89i:93051**

Levine, William S. *see* **Yang, Jiann-Shiou, 89e:93109**

Li, Tsu T'ien (*with* Lee, Shiow Harn) Synthesis of control laws with specified gain and phase margin and poles region. **89i:93051**

— *see also* **Ch'ên, Miao Shêng, 89e:93086**

Lin, Chung Ch'ê (*with* Chiang, Hsing Ya) Adaptive model following control with variable structure control system. (Chinese summary) (Not in MR)

Lin, Yu-Hwan *see* **Wang, Shêng Tê; et al., 89a:93028**

Locatelli, A. Some aspects of the optimal synthesis of multivariate regulators. (Italian. English summary) **89a:93027**

Longhi, Sauro *see* **Grasselli, Osvaldo Maria, 89g:93041**

Longman, Richard W. *see* **Sevaston, George E., 89k:93095**

Luce, Ethan Craig *see* **Viswanadham, N.; et al.**, (Not in MR)

Luo, Zheng Hua *see* **Kobayashi, Toshihiro, 89e:93094**

Madzharov, N. E. *see* **Kharalanova, E. A.**, (Not in MR)

Maegawa, Kouji *see* **Konishi, Katsunobu; et al.**, (Not in MR)

Maekawa, Sadao *see* **Hinamoto, Takao; et al., 89d:93043**

Maksimov, V. I. Positional modeling of unbounded controls for nonlinear distributed systems with dissipation. **89f:93015**

Malabre, M. *see* **Commault, C.; et al., 89k:93087**

Manuĭlov, Yu. S. A logical-analytic method for the design of controllers in the form of feedback. (Russian. English summary) **89e:93097**

Marino, Riccardo (*with* Respondek, Witold; van der Schaft, A. J.) Almost disturbance decoupling for multivariable nonlinear systems: a sufficient condition. **89k:93093**

Martynenko, V. V. Solution of a time-optimality problem for a class of nonlinear dynamical systems. **89g:93045**

Medanic, J. (*with* Uskokovic, Zdravko) Design of coupled decentralized output regulators. **89e:93098**

— *see also* **Tharp, H. S.; et al., 89e:93106**

Moerder, Daniel D. (*with* Calise, Anthony J.) Near-optimal output feedback regulation of ill-conditioned linear systems. **89e:93099**

Morari, Manfred *see* **Zafiriou, Evanghelos, 89a:93029**

Morris, Kirsten Anna *see* **Aplevich, J. D., 89i:93044**

Naidu, D. S. *see* **Sen, Siddhartha**^{2}, (Not in MR)

Nwokah, Osita D. I. Quantitative design of robust multivariable control systems. **89e:93100**

O'Reilly, John *see* **Kokotović, P. V.; et al., 89h:93022**

Owens, D. H. *see* **Chotai, A., 89e:93087**

Owens, T. J. Parametric output feedback control with response insensitivity. (Not in MR)

Pan, Ji Qin *see* **Zhang, Yun, 89c:93044**

Pang, Guo Zhong The design of a class of multivariable control systems. (Chinese) (Not in MR)

Pasynkov, V. N. A direct scheme for solving an optimal synthesis problem for a singularly perturbed parabolic equation. (Russian. English summary) **89e:93101**

Pełczewski, Jerzy Computation of the time-optimal control for some linear systems. (Russian and Polish summaries) **89i:93052**

Penati, M. E. (*with* Tibaldi, M.; Bertoni, G.) Reduced order regulators for large scale systems: a numerical implementation for stochastic and deterministic systems. **89f:93016**

Perkins, W. R. *see* **Tharp, H. S.; et al., 89e:93106**

Polites, Michael E. (*with* Beale, Guy O.) Modelling and designing digital control systems with averaged measurements. (Not in MR)

Poolla, K. R. *see* **Khargonekar, Pramod P.; et al., 89i:93048**

Popescu, Mihai-Emilian Optimal transfer from collinear libration points with limited rotation speed. (Not in MR)

Pyatnitskiĭ, E. S. Synthesis of the control of manipulator robots based on the decomposition principle. (Not in MR)

Quinn, Stanley B., Jr. (*with* Sanathanan, C. K.) Flexible compensator design for unity-feedback control loops. (Not in MR)

Radoslav, Stojić On inverse problem of nonlinear system dynamics. (*see* **89c:00031**)

Respondek, Witold *see* **Marino, Riccardo; et al., 89k:93093**

Ronge, Peter Locally optimal feedback strategy for nonlinear systems with uncertain parameters. (Not in MR)

Rosen, I. G. *see* **Gibson, James S., 89e:93090**

Rotella, F. *see* **Dauphin-Tanguy, G., 89j:93044**

Rugh, Wilson J. *see* **Wang, Jianliang**, (Not in MR)

Sabourin, Michael G. (*with* Caines, Peter E.) An information theoretic approach to regulation systems. **89e:93102**

Salyga, V. I. (*with* Karabutov, N. N.) The method of φ-algorithms, and its application in control problems. (Russian) **89k:93094**

Sanathanan, C. K. *see* **Quinn, Stanley B., Jr.**, (Not in MR)

van der Schaft, A. J. *see* **Marino, Riccardo; et al., 89k:93093**

Schmidt, Günther *see* **Kuhn, Udo, 89e:93096**

Sebakhy, O. A. (*with* El Singaby, M. I.; El Arabawy, I. F.) Shaping of the output response in a class of linear multivariable systems. (Not in MR)

Šebek, M. *see* **Hunt, K. J.**, (Not in MR)

de la Sen, Manuel On the extension of Rosenbrock's theory in algebraic design of multivariable controllers. **89b:93057**

— Extensions of Rosenbrock's theory for algebraic design of controllers. (Spanish summary) **89b:93058**

Sen, Siddhartha^2 (*with* Naidu, D. S.) Time-optimal control algorithm for two-time-scale discrete system. (Not in MR)

Sevaston, George E. (*with* Longman, Richard W.) Systematic design of robust control systems using small gain stability concepts. **89k:93095**

Shan, Yun Sheng Synthesis of systems of variable structure in the frequency domain. (Chinese. English summary) (Not in MR)

Shao, Shi Huang Fuzzy self-organizing controller and its application for dynamic processes. **89c:93043**

Shi, Song Jiao *see* **Wang, Yue Yun; et al., 89e:93108** *and* **Xu, Dong Ling; et al., (89c:00031)**

Shieh, L. S. (*with* Dib, H. M.; Yates, R. E.) Sequential design of linear quadratic state regulators via the optimal root-locus techniques. **89e:93103**

Shokin, Yu. I. (*with* Zakharov, Aleksandr Vasil′evich) Design of control systems under interval determinacy of the parameters of their mathematical models. **89g:93046**

Shubladze, A. M. Methods for calculating proportional-integral-differential control laws that are optimal with respect to the degree of stability. II. (Russian. English summary) **89d:93046**

Sideris, Athanasios *see* **Helton, J. William, 89m:93029**

Sira-Ramirez, Hebertt J. Sliding regimes on slow manifolds of systems with fast actuators. **89j:93047**

Sirazetdinov, T. K. (*with* Aminov, A. B.; Surkin, N. R.) Application of the method of Lyapunov functions to the parametric synthesis of stable systems under large initial perturbations. (Russian) **89e:93104**

Skelton, Robert E. *see* **de Villemagne, Christian, 89d:93047**

Sklyar, G. M. *see* **Korobov, V. I., 89b:93056; 89g:93044; 89j:93046** *and* **Bessonov, G. A.; et al., 89k:93085**

Solay Rakotonirainy, Georges *see* **Spinelli, Patricia, 89e:93105**

Soliman, Hisham M. *see* **Darwish, M. G.**, (Not in MR)

Spinelli, Patricia (*with* Solay Rakotonirainy, Georges) Minimum time problem synthesis. **89e:93105**

Stein, Fred P. *see* **Kubic, William L., Jr., 89d:93045**

Sun, J. *see* **Ioannou, P. A., 89f:93014**

Surkin, N. R. *see* **Sirazetdinov, T. K.; et al., 89e:93104**

Swamy, M. N. S. *see* **Anakwa, W. K. N.**, (Not in MR)

Tannenbaum, Allen *see* **Khargonekar, Pramod P.; et al., 89i:93048**

Taylor, James Hugh *see* **Viswanadham, N.; et al.**, (Not in MR)

Tharp, H. S. (*with* Medanic, J.; Perkins, W. R.) Parameterization of frequency weighting for a two-stage linear quadratic regulator based design. **89e:93106**

Ti, Zhao Xu A design method for a PID autotuning system. (Chinese. English summary) (Not in MR)

Tibaldi, M. *see* **Penati, M. E.; et al., 89f:93016**

Tonev, M. I. *see* **Zapryanov, Ĭ. D.**, (Not in MR)

Trentelman, H. L. (*with* van der Woude, J. W.) Almost invariance and noninteracting control: a frequency-domain analysis. **89e:93107**

Tsay, Tain Sou (*with* Han, Kuang Wei) Diagonal dominance design of multivariable feedback control systems using the stability-equation method. (Not in MR)

Tsonkov, Stoyan M. Control of objects with distributed parameters in a class of systems with variable structure. (Russian. English summary) **89k:93096**

T'u, Shih Hsiung (*with* Ch'ên, Wu T'ung; Chang, Fu Chüeh; Chang, Hsiang) Chattering alleviation of variable structure control for a certain class of nonlinear systems. (Chinese summary) (Not in MR)

Unbehauen, H. (*with* Vakilzadeh, I.) Optimal synchronization of n identical double-integral plants with identical inputs but different initial conditions. **89k:93097**

Uskokovic, Zdravko *see* **Medanic, J., 89e:93098**

Vakilzadeh, I. *see* **Unbehauen, H., 89k:93097**

Vassilaki, M. (*with* Hennet, J.-C.; Bitsoris, G.) Feedback control of linear discrete-time systems under state and control constraints. (Not in MR)

Venetsanopoulos, Anastasios N. *see* **Hinamoto, Takao; et al., 89d:93043**

de Villemagne, Christian (*with* Skelton, Robert E.) Controller reduction using canonical interactions. **89d:93047**

Viswanadham, N. (*with* Taylor, James Hugh; Luce, Ethan Craig) A frequency-domain approach to failure detection and isolation with application to GE-21 turbine engine control systems. (Not in MR)

Volosov, V. V. *see* **Bakan, G. M., 89d:93041**

Vyazgin, V. A. A hierarchical scheme for designing dynamical systems. (Not in MR)

Wang, Chao Zhu *see* **Dai, Li Yi**, (Not in MR)

Wang, Jianliang (*with* Rugh, Wilson J.) Linearized model matching for single-input nonlinear systems. (Not in MR)

Wang, Shêng Tê (*with* Kuo, Tê Shêng; Lin, Yu-Hwan; Hsü, Chên Fa; Chuang, Yao T'ang) Robust control design for linear systems with uncertain parameters. **89a:93028**

Wang, Yue Yun (*with* Shi, Song Jiao; Zhang, Zhong Jun) Design of optimal regulators for generalized systems. (Chinese. English summary) **89e:93108**

Wie, Bong (*with* Byun, Kuk-Whan) New generalized structural filtering concept for active vibration control synthesis. (Not in MR)

van der Woude, J. W. *see* **Trentelman, H. L., 89e:93107**

Wu, Guang Yu (*with* Cui, Ping Yuan) A fast adaptive self-tuning regulator with delay compensator. (Chinese. English summary) (Not in MR)

Xi, Yu Geng New design method for discrete-time multi-variable predictive controllers. (Not in MR)

— *see also* **Xu, Xiao Ming, 89k:93098**

Xiong, Guang Leng (*with* Yang, Tai Cheng) The development of expert systems for the computer-aided design of control systems. (Chinese. English summary) (Not in MR)

Xu, Dong Ling (*with* Yang, Jian Bo; Shi, Song Jiao) Theory and method for designing feedback controllers of SISO descriptor systems with H^∞-optimal sensitivity. (*see* **89c:00031**)

Xu, Xiao Ming (*with* Xi, Yu Geng) The synthesis of decentralized control systems with the most economical information structure. (Chinese. English summary) **89k:93098**

Yang, Jian Bo *see* **Xu, Dong Ling; et al., (89c:00031)**

Yang, Jiann-Shiou (*with* Levine, William S.) An H^∞ method for the design of linear time-invariant multivariable sampled-data control systems. **89e:93109**

Yang, Tai Cheng *see* **Xiong, Guang Leng**, (Not in MR)

Yates, R. E. *see* **Shieh, L. S.; et al., 89e:93103**

Yoshimura, Toshio *see* **Konishi, Katsunobu; et al.**, (Not in MR)

You, Yun Cheng *see* **Lee, E. B., 89i:93050**

Zafiriou, Evanghelos (*with* Morari, Manfred) Digital controller design for multivariable systems with structural closed-loop performance specifications. **89a:93029**

Zakharov, Aleksandr Vasil′evich *see* **Shokin, Yu. I., 89g:93046**

Zapryanov, Ĭ. D. (*with* Tonev, M. I.) Design of decentralized robust control for a class of nonlinear dynamic objects. (Bulgarian. English and Russian summaries) (Not in MR)

Zemlyakov, A. S. Investigation of complex control systems on the basis of the method of vector Lyapunov functions. (Russian) **89f:93017**

Zhang, Yun (*with* Pan, Ji Qin) An improvement on the adaptive model following control. (Chinese. English summary) **89c:93044**

Zhang, Zhong Jun *see* **Wang, Yue Yun; et al., 89e:93108**

Zhao, Su Xia On the inconsistency of the S-procedure. (Chinese. English summary) **89g:93047**

Zolezzi, T. *see* **Bartolini, G., 89a:93023**

Items with secondary classifications in 93B50

Abdel-Salam, M. *see* **Fetih, N.; et al.**, (Not in MR)

Abe, Naoto *see* **Uchida, Kenko; et al., 89a:34090a; 89a:34090b** *and* **89i:34111**

Adali, S. (*with* Bruch, J. C., Jr.; Sadek, Ibrahim S.; Sloss, J. M.) Feedback control of a vibrating beam by stiffening action. **89e:93124**

Akulenko, L. D. ★ Асимптотические методы оптимального управления. (Russian) [Asymptotic methods for optimal control] **89b:49002**

Aniculăesei, G. (*with* Popa, Cătălin) Hamilton-Jacobi equations and synthesis of optimal bilinear controls in Hilbert spaces. (Italian summary) **89b:49046**

Arapostathis, Aristotle *see* **Nam, Kwanghee, 89g:93058**

(Åström, K. J.) *see* **Johnson, M. A.**, (Not in MR)

Bacon, D. W. *see* **Tade, M. O.; et al., 89f:93024** *and* **89f:93025**

Bakule, Lubomír (*with* Lunze, J.) Decentralized design of feedback control for large-scale systems. **89k:93002**

Banek, Tadeusz (*with* Gedymin, Olgierd) Stochastic production-inventory control problem with random demand. (Russian and Polish summaries) (Not in MR)

Bao, Yuan L. *see* **Shieh, L. S.; et al., 89k:93231**

Barmish, B. Ross (*with* Wei, K. H.) Simultaneous stabilizability of single input–single output systems. **89c:93063**

— *see also* **Petersen, Ian R., 89k:93190**

Barton, Geoffrey W. *see* **Nguyen, T. Chanh; et al.**, (Not in MR)

Bayard, David S. (*with* Hadaegh, F. Y.; Meldrum, D. R.) Optimal experiment design for identification of large space structures. **89d:93035**

Bayoumi, M. M. *see* **Tade, M. O.; et al., 89f:93024** *and* **89f:93025**

Bellizzi, Serge (*with* Bouc, Robert; Campillo, Fabien; Pardoux, É.) Contrôle optimal semi-actif de suspension de véhicule. (English summary) [Semi-active optimal control of vehicle suspension] (*see* **89c:00031**)

Bendsøe, Martin P. On optimal design of actively controlled distributed parameter structures. (*see* **89b:93006**)

Bhattacharyya, Shankar Prashad (*with* Keel, L. H.; Howze, J. W.) Stabilizability conditions using linear programming. (Not in MR)

Bisiacco, Mauro (*with* Fornasini, Ettore; Marchesini, Giovanni) Controller design for 2D systems. **89d:93027**

— *see also* **Šebek, M.; et al., 89e:93021**

Bitmead, Robert R. *see* **Mareels, I. M. Y., 89e:93142**

Bodyanskiĭ, E. V. (*with* Solov′eva, T. V.) Synthesis of pseudodual adaptive regulators. (Russian. English summary) **89f:93026**

Bolotin, Yu. V. Duality in a problem of the optimal distribution of forces for the control of mechanical systems. (Russian. English summary) **89c:70063**

Boothby, W. M. (*with* Dayawansa, Wijesuriya P.) Some global aspects of the feedback linearization problem. **89b:93035**

Bortakovskiĭ, A. S. *see* **Panteleev, A. V.**, (**89j:34002**)

Bouc, Robert *see* **Bellizzi, Serge; et al.**, (**89c:00031**)

Breinl, W. (*with* Leitmann, G.) State feedback for uncertain dynamical systems. **89a:93041**

Bruch, J. C., Jr. *see* **Adali, S.; et al.**, **89e:93124**

Brusin, V. A. Control of the spectrum of multidimensional oscillatory objects. **89i:93053**

Byun, Seung-Wan *see* **Lee, Chong-Won**, (Not in MR)

Campillo, Fabien *see* **Bellizzi, Serge; et al.**, (**89c:00031**)

Castelein, R. (*with* Johnson, Alan) Constrained optimal control. **89k:93041**

Chagina, O. M. *see* **Lakeev, A. V.**, **89i:93010**

Chai, Tian You A self-tuning decoupling controller for a class of multivariable systems and global convergence analysis. **89e:93136**

Chang, Fan Jên *see* **Shieh, L. S.; et al.**, **89k:93231**

Ch'ên, Po Hsien (*with* Wang, Shun Hsiang) Multivariable model matching control: perfect and imperfect cases. **89d:93057**

— (*with* Lin, Chih Min) Multipurpose adaptive control in deterministic multivariable systems. (Not in MR)

— *see also* **Hsiao, Fêng Hsiang, 89b:93081** *and* **Chiang, Chiang-Cheng, 89d:93073**

Chen, Ye-Hwa Design of robust controllers for uncertain dynamical systems. **89e:93154**

— (*with* Tomizuka, Masayoshi) Design of adaptive observer for plant under input disturbance and measurement noise. **89a:93031**

— Errata: "Deterministic control of large-scale uncertain dynamical systems" [J. Franklin Inst. **323** (1987), no. 2, 135–144; MR 88g:93012]. **89b:93016**

Chen, You Gen (*with* Wang, Ru Qu) Optimal incomplete state feedback control for discrete systems. (Chinese. English summary) (Not in MR)

Chiang, Chiang-Cheng (*with* Ch'ên, Po Hsien) Robust compensator synthesis for dynamic systems subjected to parameter perturbations. **89d:93073**

Chou, D. S. *see* **Sworder, D. D., 89a:93035**

Chou, Jyh Horng (*with* Horng, Ing Rong) Algebraic method for the design of output deadbeat controller. **89e:93046**

Christodoulou, M. A. (*with* Mertzios, B. G.) Decoupling and pole placement in singular systems using state and output feedback. **89b:49049**

— Pole placement for generalized MFDs. **89f:93018**

Cobb, J. Daniel Linear compensator designs based exclusively on input-output information are never robust with respect to unmodeled dynamics. **89e:93069**

Corless, M. J. *see* **Walcott, B. L.; et al., 89b:93027** *and* **Zeitz, M., 89b:93028**

Curtain, R. F. L_∞-approximations of complex functions and robust controllers for large flexible space structures. **89i:93001**

— *see also* **Zwart, H. J.; et al.**, (Not in MR)

Dai, Li Yi Structural stability for singular systems—a quantitative approach. **89g:93072**

Danilevich, A. B. (*with* Koshelev, V. N.) A method for introducing a correction to the solution of a system of differential equations in order to improve its accuracy. (Russian) **89k:65106**

Da Prato, G. Synthesis of optimal control for an infinite-dimensional periodic problem. **89b:49053**

Davison, E. J. *see* **Vaz, A. F., 89b:93064**

Dayawansa, Wijesuriya P. *see* **Boothby, W. M., 89b:93035**

Denham, M. J. A Petri-net approach to the control of discrete-event systems. **89m:93044**

Descusse, J. (*with* Lafay, J. F.; Malabre, M.) Solution to Morgan's problem. (Not in MR)

Dib, H. M. *see* **Shieh, L. S.; et al., 89k:93107**

Dovbysh, I. G. Estimation of noise parameters in dynamic systems. (Russian. English summary) **89b:93099**

Doyle, John C. *see* **Lenz, Kathryn E.; et al., 89b:93053**

Dzhamanbaev, A. A. *see* **Ushakov, A. V., 89j:93038**

Eldem, Vasfi (*with* Özgüler, A. Bülent) Disturbance decoupling problems by measurement feedback: a characterization of all solutions and fixed modes. **89d:93029**

El-Sakkary, Ahmed K. Design of H^∞-optimal feedback controllers for model following. **89f:93011**

El-Sayed, E. M. *see* **Fetih, N.; et al.**, (Not in MR)

Emirsajłow, Zbigniew Integral Riccati equations for a feedback solution of LQCP with a terminal inequality constraint. (*see* **89g:00018**)

Encheva, T. I. (*with* Levin, A. Yu.) Localization of zeros of quasipolynomials that arise in a linear time-optimal control problem. (Russian) **89j:49019**

Endo, K. *see* **Zhong, Yi Sheng; et al.**, (Not in MR)

Fahmẏ, Mahmoud M. (*with* O'Reilly, John) Multistage parametric eigenstructure assignment by output-feedback control. **89e:93119**

Feliachi, Ali Linear feedback control with prespecified performance measure. **89d:49034**

Fetih, N. (*with* Abdel-Salam, M.; El-Sayed, E. M.) The use of integral cycle switching for control of three-phase induction motors. (Russian summary) (Not in MR)

Fletcher, L. R. Eigenstructure assignment by output feedback in descriptor systems. (Not in MR)

Fornasini, Ettore *see* **Bisiacco, Mauro; et al., 89d:93027** *and* **Šebek, M.; et al., 89e:93021**

Francis, B. A. ★ A course in H_∞ control theory. **89i:93002**

Frank, P. M. *see* **Verde, C., 89e:93077**

Fuchs, Andreas (*with* Mukundan, Rangaswamy) Design of variable structure system controllers for large-scale multivariable systems using eigenvalue placement. **89i:93059**

Fujinaka, Toru (*with* Katayama, Tohru) Discrete-time optimal regulator with closed-loop poles in a prescribed region. **89g:93048**

Gajewski, Antoni (*with* Życzkowski, Michał) ★ Optimal structural design under stability constraints. **89i:73060**

Ganesan, Sekar *see* **Shieh, L. S.; et al., 89k:93107**

Gao, Jin Chang *see* **Zhang, Yu Lin; et al., 89e:93012**

Gao, Wei Bing *see* **Shi, Zhi Cheng, 89d:93004** *and* **Xia, Xiao Hua, 89h:93012**

Garg, Sanjay (*with* Schmidt, David K.) Cooperative synthesis of control and display augmentation. (Not in MR)

Garofalo, F. (*with* Leitmann, G.) A composite controller ensuring ultimate boundedness for a class of singularly perturbed uncertain systems. **89k:93073**

Gedymin, Olgierd *see* **Banek, Tadeusz**, (Not in MR)

Gerchev, A. V. Optimization of linear singularly perturbed systems. (Russian. English summary) **89e:49018**

Ghosh, Bijoy Kumar An approach to simultaneous system design. II. Nonswitching gain and dynamic feedback compensation by algebraic geometric methods. **89e:93058**

Giannakopoulos, C. *see* **Karcanias, N.; et al.**, (Not in MR)

Gibson, James S. (*with* Rosen, I. G.) Numerical approximation for the infinite-dimensional discrete-time optimal linear-quadratic regulator problem. **89a:93020**

Glover, Keith *see* **Zwart, H. J.; et al.**, (Not in MR)

Goodwin, Graham C. (*with* Middleton, R.) Continuous and discrete adaptive control. **89a:93032**

Gorbachëv, N. V. (*with* Safonov, A. V.) Optimal control and inverse problems of dynamics. (Russian. English summary) **89c:70065**

Gray, J. O. *see* **Valsamis, D.; et al., 89d:93089**

Grimble, M. J. Optimal H_∞ multivariable robust controllers and the relationship to LQG design problems. **89i:93028**

— *see also* **Šebek, M.; et al., 89e:93228** *and* **Johnson, M. A.**, (Not in MR)

Grishin, S. A. Synthesis of nonlinear control laws. **89m:93067**

Grizzle, Jessy W. (*with* Shor, M. H.) Sampling, infinite zeros and decoupling of linear systems. **89f:93028**

Grodzki, Z. Synthesis problem for deterministic controlled (k, m)-shift-registers. **89i:94031**

Groumpos, P. P. (*with* Leros, A. P.) A structural approach to the modelling and control problem of large scale systems. **89d:93006**

Guardabassi, G. (*with* Righettini, A.; Ruffoni, I.) Output linearizable models and nonlinear control of a distillation column. (Russian and Polish summaries) **89b:93076**

Hadaegh, F. Y. *see* **Bayard, David S.; et al., 89d:93035**

Hamanaka, Takashi *see* **Hinamoto, Takao; et al.**, (Not in MR)

Hang, C. C. *see* **Lim, Cheng-Chew; et al.**, (Not in MR)

Hara, Shinji (*with* Yamamoto, Yutaka; Omata, Tohru; Nakano, Michio) Repetitive control system: a new type servo system for periodic exogenous signals. **89d:93056**

He, Xiang Wei *see* **Ye, Xiao Ye, 89b:93078**

Hermann, Robert Invariants for feedback equivalence and Cauchy characteristic multifoliations of nonlinear control systems. **89e:93041**

Higuchi, Tatsuo *see* **Huang, Xi Yue; et al.**, (Not in MR)

Hinamoto, Takao (*with* Hamanaka, Takashi; Maekawa, Sadao) A generalized study on the synthesis of 2-D state-space digital filters with minimum roundoff noise. (Not in MR)

Horng, Ing Rong *see* **Chou, Jyh Horng, 89e:93046**

Hosoe, S. (*with* Zhang, Feifei) An elementary state space approach to RH^∞ optimal control. **89m:93017**

Howze, J. W. *see* **Bhattacharyya, Shankar Prashad; et al.**, (Not in MR)

Hsia, Kuo Hsien *see* **Hsieh, Chê Kuang, 89g:93073**

Hsiao, Fêng Hsiang (*with* Ch'ên, Po Hsien) LQG optimal and robust controller design for nonlinear stochastic systems: multivariable case. **89b:93081**

Hsieh, Chê Kuang (*with* Hsia, Kuo Hsien) Inverse problems of linear feedback control systems: stabilization, tracking and disturbance rejection. (Chinese summary) **89g:93073**

Hu, Shi Cai (*with* Zang, Jun) The disturbance decoupling problem in decentralized linear multivariable systems by local dynamic feedback. **89e:93008**

Huang, Xi Yue (*with* Kameyama, Michitaka; Higuchi, Tatsuo) Design of a time-optimal digital control system for a DC-servomotor with amplitude limitation. (Not in MR)

Hung, Y. S. H^∞ interpolation of rational matrices. **89i:93023**

Hunt, K. J. *see* **Šebek, M.; et al., 89e:93228**

Hwang, Thong Shing *see* **Yeh, Fang Bo, 89e:93080** *and* (Not in MR)

Ignatenko, V. N. (*with* Strakhova, N. V.) The number of switchings that are time optimal and fuel efficient of controls of linear discrete systems. (Russian) (Not in MR)

Ilic, Marija *see* **Sira-Ramirez, Hebertt J.**, (Not in MR)

Ivanenko, V. I. Some questions regarding indeterminacy and dynamics in control problems. **89i:93003**

Izgorev, M. Yu. *see* **Zaĭchenko, Yu. P.; et al.**, (Not in MR)

Johnson, Alan *see* **Castelein, R., 89k:93041**

Johnson, C. D. The "unreachable poles" defect in LQR theory: analysis and remedy. (Not in MR)

Johnson, M. A. (*with* Odonde, J. O.) Comments on: "Frequency-domain properties of Kalman filters" [Internat. J. Control **45** (1987), no. 3, 907–925; MR 88a:93066] by M. J. Grimble and K. J. Åström. (Not in MR)

Johnston, Richard D. *see* **Nguyen, T. Chanh; et al.**, (Not in MR)

Jonckheere, Edmond *see* **Juang, Jyh-Ching, 89j:93035**

Juang, Jyh-Ching (*with* Jonckheere, Edmond) Vector-valued versus scalar-valued figures of merit in H^∞-feedback system design. **89j:93035**

Kameyama, Michitaka *see* **Huang, Xi Yue; et al.**, (Not in MR)

Karabash, M. A. Feedback controls for stochastic equations with monotone coefficients. (Russian) **89j:49011**

Karcanias, N. (*with* Laios, B.; Giannakopoulos, C.) Decentralized determinantal assignment problem: fixed and almost fixed modes and zeros. (Not in MR)

Katayama, Tohru *see* **Fujinaka, Toru, 89g:93048**

Kawasaki, Naoya (*with* Shimemura, E.) Pole placement in a specified region based on a linear quadratic regulator. **89e:93114**

— *see also* **Kobayashi, Hisato; et al., 89e:93115**

Kazakov, I. E. Synthesis of a conditionally optimal control according to a local criterion in a nonlinear stochastic system. **89e:93223**

Keel, L. H. *see* **Bhattacharyya, Shankar Prashad; et al.**, (Not in MR)

Khargonekar, Pramod P. (*with* Petersen, Ian R.; Rotea, Mario A.) H_∞-optimal control with state-feedback. (Not in MR)

— *see also* **Lenz, Kathryn E.; et al., 89b:93053**

Khinov, Kh. M. (*with* Shishkov, G. V.; Peev, R. P.) Design of an optimal regulator for multisection tunnel kilns. (Bulgarian. English and Russian summaries) (Not in MR)

Khusainov, D. Ya. Optimization of an estimate for the time of a transient process in control problems. (Russian) **89g:93067**

Kim, A. V. The dynamic programming method and optimal synthesis in systems with aftereffect. (Russian) **89f:34117**

Kim, Sang Woo *see* **Lee, Sang Jeong; et al., 89c:34088**

Kimura, Hidenori *see* **Zhao, Yao, 89e:93078** *and* **89e:93079**

Kobayashi, Hisato (*with* Kawasaki, Naoya; Shimemura, E.) Relation between pole assignment and LQ regulator. **89e:93115**
Kobayashi, Toshihiro Input-output representations of spectral systems and adaptive controls. **89d:93060**
— Finite-dimensional adaptive control for infinite-dimensional systems. **89j:93070**
Kokame, Hideki *see* **Mori, Takehiro, 89f:93034**
Korneev, V. A. Optimal synthesis in a problem of the impulse correction of motion. (Russian) (Not in MR)
Korobov, V. I. (*with* Sklyar, G. M.; Krutin′, V. I.) Solution of an optimal design problem by means of a controllability function. (Russian) **89b:49063**
Koshelev, V. N. *see* **Danilevich, A. B., 89k:65106**
Kotta, Yu. R. The ensuring of autonomy of a nonlinear dynamical system with discrete time. (Not in MR)
Kovbasa, G. T. Exact solution of a decentralization problem and design of a system for the automatic control of nonstationary multidimensional systems with given stability characteristics. (Russian) **89e:93031**
Kovrigo, Yu. M. *see* **Zaĭchenko, Yu. P.; et al.**, (Not in MR)
Kravaris, Costas (*with* Palanki, Srinivas) Robust nonlinear state feedback under structured uncertainty. **89j:93036**
Krutin′, V. I. *see* **Korobov, V. I.; et al., 89b:49063**
Kubo, T. *see* **Shimemura, E.; et al., 89d:34129** *and* **Uchida, Kenko; et al., 89i:34111**
Kuntsevich, V. M. (*with* Lychak, M. M.; Nikitenko, A. S.) Active identification of the parameters of a linear static object (a game-theoretic problem of the design of an experiment). (Russian. English summary) **89e:93208**
— (*with* Lychak, M. M.) Control under indeterminacy conditions (synthesis of adaptive control systems). **89j:93028**
Kwon, W. H. *see* **Lee, Sang Jeong; et al., 89c:34088**
Ladde, G. S. (*with* Sirisaengtaksin, O.) Near-optimum regulators for stochastic singularly perturbed systems. **89b:93117**
Lafay, J. F. *see* **Descusse, J.; et al.**, (Not in MR)
Laios, B. *see* **Karcanias, N.; et al.**, (Not in MR)
Lakeev, A. V. (*with* Chagina, O. M.) The method of Lyapunov functions in control synthesis problems. (Russian) **89i:93010**
Lasserre, J. B. Existence of closed-loop policies for constrained discrete-time linear systems with bounded disturbances. **89f:93021**
Le, V. X. *see* **Safonov, M. G., 89e:93062**
Lee, Chong-Won (*with* Byun, Seung-Wan) Optimal complex modal-space control of rotating disc vibrations. (Not in MR)
Lee, Sang Jeong (*with* Kwon, W. H.; Kim, Sang Woo) LQG/LTR methods for linear input-delayed systems. **89c:34088**
Leitmann, G. *see* **Breinl, W., 89a:93041** *and* **Garofalo, F., 89k:93073**
Lenz, Kathryn E. (*with* Khargonekar, Pramod P.; Doyle, John C.) When is a controller H^{∞}-optimal? **89b:93053**
Leros, A. P. *see* **Groumpos, P. P., 89d:93006**
Levin, A. Yu. *see* **Encheva, T. I., 89j:49019**
Lim, Cheng-Chew (*with* Teo, Kok-Lay; Hang, C. C.) General pole restriction controller design. (Not in MR)
Lin, Chih Min *see* **Ch'ên, Po Hsien**, (Not in MR)
Lin, Feng (*with* Vaz, A. F.; Wonham, W. M.) Supervisor specification and synthesis for discrete event systems. (Not in MR)
Linder, N. V. An evasion problem. (Russian) **89b:90251**
Lozowicki, Adam On the optimization of control systems in meaning of certain class of input signals. (*see* **89a:94001**)
Lü, Yong Zai *see* **Zhu, Jian Min, 89d:93005** *and* **Xu, Cheng Wei, 89j:94052**
Lunze, J. *see* **Bakule, Lubomír, 89k:93002**
Lychak, M. M. *see* **Kuntsevich, V. M.; et al., 89e:93208** *and* **89j:93028**
Ma, C. C. H. (*with* Vidyasagar, M.) Direct globally convergent adaptive regulation of stable multivariable plants. **89c:93051**
Maeda, Mikio (*with* Murakami, Shuta) A design for a fuzzy logic controller. **89h:93032**
Maekawa, Sadao *see* **Hinamoto, Takao; et al.**, (Not in MR)
Makarov, I. M. (*with* Mikhaĭlov, A. M.; Rakhmankulov, V. Z.; Rutskov, M. V.) Software-tool package for modelling flexible manufacturing processes. **89f:68065**
Malabre, M. *see* **Descusse, J.; et al.**, (Not in MR)
Mansour, M. *see* **Xu, Ji-Han, 89m:93026**
Marchesini, Giovanni *see* **Bisiacco, Mauro; et al., 89d:93027**
Mareels, I. M. Y. (*with* Bitmead, Robert R.) Nonlinear dynamics in adaptive control: periodic and chaotic stabilization. II. Analysis. **89e:93142**
Mariton, M. Jump linear quadratic control with random state discontinuities. **89b:93119**
— On systems with non-Markovian regime changes. **89k:93145**
Mårtensson, Bengt Adaptive stabilization of general, multivariable, continuous- or discrete-time linear systems. (*see* **89b:93008**)
Meerkov, Semyon M. (*with* Runolfsson, Thordur) Residence time control. **89b:93120**
Meldrum, D. R. *see* **Bayard, David S.; et al., 89d:93035**
Mertzios, B. G. *see* **Christodoulou, M. A., 89b:49049**
Michel, A. N. *see* **Miller, Richard K.; et al.**, (Not in MR)
Middleton, R. *see* **Goodwin, Graham C., 89a:93032**
Mikhaĭlov, A. M. *see* **Makarov, I. M.; et al., 89f:68065**
Miller, Richard K. (*with* Mousa, M. S.; Michel, A. N.) Quantization and overflow effects in digital implementations of linear dynamic controllers. (Not in MR)
Milman, Mark H. A factorization on the semi-infinite interval. II. Applications to stable regulator problems. **89k:93061**
— Approximating the linear quadratic optimal control law for hereditary systems with delays in the control. **89d:34126**
Miminis, George S. (*with* Paige, Chris C.) A direct algorithm for pole assignment of time-invariant multi-input linear systems using state feedback. **89e:93116**
Misra, K. B. On optimal reliability design: a review. (Russian and Polish summaries) (Not in MR)
Mori, Takehiro (*with* Kokame, Hideki) Stabilization of perturbed systems via linear optimal regulator. **89f:93034**
Mousa, M. S. *see* **Miller, Richard K.; et al.**, (Not in MR)
Mukhopadhyay, Vivek Digital robust control law synthesis using constrained optimization. (Not in MR)
Mukundan, Rangaswamy *see* **Fuchs, Andreas, 89i:93059**
Murakami, Shuta *see* **Maeda, Mikio, 89h:93032**
Nakano, Michio *see* **Hara, Shinji; et al., 89d:93056**
Nam, Kwanghee (*with* Arapostathis, Aristotle) A model reference adaptive control scheme for pure-feedback nonlinear systems. **89g:93058**
Neittaanmäki, Pekka Methods for optimal shape design problems. (*see* **89m:78001**)
Ng, W. Y. Application of optimization-based methods in control system design. (*see* **89f:00029**)
Nguyen, T. Chanh (*with* Barton, Geoffrey W.; Perkins, John D.; Johnston, Richard D.) A condition number scaling policy for stability robustness analysis. (Not in MR)
Nikitenko, A. S. *see* **Kuntsevich, V. M.; et al., 89e:93208**
Noldus, E. Finite-dimensional approximate observers for a class of transportation systems. (Not in MR)
Odonde, J. O. *see* **Johnson, M. A.**, (Not in MR)
Omata, Tohru *see* **Hara, Shinji; et al., 89d:93056**
O'Reilly, John *see* **Fahmý, Mahmoud M., 89e:93119** *and* **Multivariable control for industrial applications**, (Not in MR)
Osipov, Yu. S. Problems of dynamical reconstruction. (Russian) **89e:93187**
Owens, D. H. *see* **Valsamis, D.; et al., 89d:93089**
Owens, T. J. Parametric state-feedback control with model reduction. (Not in MR)
Özgüler, A. Bülent *see* **Eldem, Vasfi, 89d:93029**
Paige, Chris C. *see* **Miminis, George S., 89e:93116**
Palanki, Srinivas *see* **Kravaris, Costas, 89j:93036**
Panteleev, A. V. (*with* Bortakovskiĭ, A. S.) Optimal control of continuous-discrete systems. (Russian) (*see* **89j:34002**)
Pardoux, É. *see* **Bellizzi, Serge; et al.**, (**89c:00031**)
Partington, J. R. *see* **Zwart, H. J.; et al.**, (Not in MR)
Peev, R. P. *see* **Khinov, Kh. M.; et al.**, (Not in MR)
Penzin, K. V. Synthesis of multiple-scale measuring systems. **89j:93054**
Perkins, John D. *see* **Nguyen, T. Chanh; et al.**, (Not in MR)
Petersen, Ian R. (*with* Barmish, B. Ross) Control effort considerations in the stabilization of uncertain dynamical systems. **89k:93190**
— *see also* **Khargonekar, Pramod P.; et al.**, (Not in MR)
Pimenov, V. G. On the problem of the control of a system with delay in the control. (Russian) **89f:34119**
Polak, Elijah (*with* Stimler, Daniel M.) Majorization: a computational complexity reduction technique in control system design. **89m:49061**
Polderman, J. W. Adaptive pole assignment by state feedback. **89k:93135**
Popa, Cătălin *see* **Aniculăesei, G., 89b:49046**
Putyatin, V. P. *see* **Stoyan, Yu. G., 89k:93150**
Pyatnitskiĭ, E. S. The decomposition principle in the control of mechanical systems. **89j:49028**
Qin, Hua Shu On the asymptotic expression of a solution of uniformly positive-definite symmetric solution to time-varying Riccati matrix differential equation. (Russian summary) **89b:93042**
Rafatov, R. R. Optimal control of a process of particle transport under incomplete measurement. (Russian) **89e:93149**
Rakhmankulov, V. Z. *see* **Makarov, I. M.; et al., 89f:68065**
Ramadge, P. J. Some tractable supervisory control problems for discrete-event systems modeled by Büchi automata. **89k:93126**
Righettini, A. *see* **Guardabassi, G.; et al., 89b:93076**
Romanenko, V. D. The principle of asynchronous discretization in the synthesis of multidimensional self-tuning digital regulators for objects with unknown different delays. (Russian) (Not in MR)
Rosen, I. G. *see* **Gibson, James S., 89a:93020**
Rotea, Mario A. *see* **Khargonekar, Pramod P.; et al.**, (Not in MR)
Ruffoni, I. *see* **Guardabassi, G.; et al., 89b:93076**
Runolfsson, Thordur *see* **Meerkov, Semyon M., 89b:93120**
Rutskov, M. V. *see* **Makarov, I. M.; et al., 89f:68065**
Sadek, Ibrahim S. *see* **Adali, S.; et al., 89e:93124**
Safonov, A. V. *see* **Gorbachëv, N. V., 89c:70065**
Safonov, M. G. (*with* Le, V. X.) An alternative solution to the H_{∞}-optimal control problem. **89e:93062**
Schättler, Heinz The local structure of time-optimal trajectories in dimension three under generic conditions. **89g:49034**
Scherer, Carsten Almost disturbance decoupling with stability by dynamic output feedback: a sufficient condition. **89e:93043**
Schmidt, David K. *see* **Garg, Sanjay**, (Not in MR)
Schmitendorf, W. E. Design of observer-based robust stabilizing controllers. (Not in MR)
— Designing stabilizing controllers for uncertain systems using the Riccati equation approach. **89b:93090**
Šebek, M. (*with* Bisiacco, Mauro; Fornasini, Ettore) Controllability and reconstructibility conditions for 2-D systems. **89e:93021**
— (*with* Hunt, K. J.; Grimble, M. J.) LQG regulation with disturbance measurement feedforward. **89e:93228**
Seborg, Dale E. *see* **Wong, Stephen K. P., 89j:34112**
de la Sen, Manuel A robust discrete adaptive control approach based on passivity results for nonlinear systems. **89e:93143**
Shahian, B. Decentralized control using observers. **89k:93013**
Shen, Cheng Zhi A new method for the design of automatic regulative systems. (Chinese. English summary) (Not in MR)
Shi, Zhi Cheng (*with* Gao, Wei Bing) Dynamic hierarchical control for large-scale systems. (Chinese. English summary) **89d:93004**
Shieh, L. S. (*with* Dib, H. M.; Ganesan, Sekar; Yates, R. E.) Optimal pole-placement for state-feedback systems possessing integrity. **89k:93107**
— (*with* Bao, Yuan L.; Chang, Fan Jên) State-space self-tuning regulators for general multivariable stochastic systems. **89k:93231**

Shimemura, E. (*with* Uchida, Kenko; Kubo, T.) LQ regulator design method for system with delay based on spectral decomposition of the Hamiltonian. **89d:34129**

— *see also* **Uchida, Kenko; et al., 89a:34090a; 89a:34090b; Kawasaki, Naoya, 89e:93114; Kobayashi, Hisato; et al., 89e:93115** *and* **Uchida, Kenko; et al., 89i:34111**

Shishkov, G. V. *see* **Khinov, Kh. M.; et al.**, (Not in MR)

Shor, M. H. *see* **Grizzle, Jessy W., 89f:93028**

Shu, Song Gui *see* **Zhang, Heng, 89j:49032**

Sims, Craig S. A class of reduced order filters designed for state dependent noise. (*see* 89c:00031)

Singh, N. P. (*with* Singh, Yashwant P.) Power system excitation and governor control design via time-scale decomposition. (Not in MR)

Singh, Yashwant P. *see* **Singh, N. P.**, (Not in MR)

Sira-Ramirez, Hebertt J. (*with* Ilic, Marija) A geometric approach to the feedback control of switch mode DC-to-DC power supplies. (Not in MR)

Sirazetdinov, T. K. ★ Методы решения многокритериальных задач синтеза технических систем. (Russian) [Methods for solving multicriterial problems of the design of engineering systems] **89d:90125**

Sirisaengtaksin, O. *see* **Ladde, G. S., 89b:93117**

Sklyar, G. M. *see* **Korobov, V. I.; et al., 89b:49063**

Skowronski, Janisław M. Adaptive nonlinear model following and avoidance under uncertainty. (Not in MR)

Skvortsov, L. M. Synthesis of a control law from given poles and zeros of a transfer function. **89k:93108**

Sloss, J. M. *see* **Adali, S.; et al., 89e:93124**

Sokolov, V. I. Synthesis of a decomposing control in nonlinear dynamical systems. **89g:93030**

Solodovnikov, V. V. (*with* Tumarkin, V. I.) Theory of complexity, systems design and computer-aided design. (Russian) **89h:93005**

Solov'eva, T. V. *see* **Bodyanskii, E. V., 89f:93026**

Speyer, Jason L. The linear-quadratic control problem. **89b:49051**

Stimler, Daniel M. *see* **Polak, Elijah, 89m:49061**

Stoyan, Yu. G. (*with* Putyatin, V. P.) ★ Оптимизация технических систем с источниками физических полей. (Russian) [Optimization of technical systems with sources of physical fields] **89k:93150**

Strakhova, N. V. *see* **Ignatenko, V. N.**, (Not in MR)

Strejc, V. Discrete version of model-in-the-system control. (Russian summary) **89d:93050**

Su, Xue Cheng *see* **Wang, Ji Hong, 89i:93056**

Sun, Lai Xiang The influence of the sampling period on the stability of an optimal sampled-data regulator. (Chinese. English summary) (Not in MR)

Sun, You Xian (*with* Wang, Qing Guo) Observer design for bilinear multivariable systems with unknown disturbance. (Chinese summary) **89k:93028**

Sun, Zeng Qi Sensitivity computation of quadratic performance and its application in suboptimal control. (Chinese. English summary) (Not in MR)

Sworder, D. D. (*with* Chou, D. S.) Passive adaptation in control system design. **89a:93035**

Tade, M. O. (*with* Bayoumi, M. M.; Bacon, D. W.) Self-tuning controller design for systems with arbitrary time delays. I. Theoretical development. **89f:93024**

— (*with* Bayoumi, M. M.; Bacon, D. W.) Self-tuning controller design for systems with arbitrary time delays. II. Algorithms and simulation examples. **89f:93025**

Takeuchi, Tomoyoshi *see* **Zhong, Yi Sheng; et al.**, (Not in MR)

Tchoń, Krzysztof Generic properties of linear and nonlinear systems: a comparative study. **89c:93005**

Teo, Kok-Lay *see* **Lim, Cheng-Chew; et al.**, (Not in MR)

Tomizuka, Masayoshi *see* **Chen, Ye-Hwa, 89a:93031**

Tonev, M. I. *see* **Zapryanov, Ĭ. D.**, (Not in MR)

Tönsing, H. *see* **Yavin, Y., 89j:93103**

Torkey, F. A. (*with* Walker, P. A. W.) Time optimal self-tuning controller. (Not in MR)

Tret'yakov, V. E. Synthesis of optimal guaranteeing control. (Russian summary) **89i:93126**

Tsui, Chia-Chi New approach to robust observer design. **89d:93017**

Tumarkin, V. I. *see* **Solodovnikov, V. V., 89h:93005**

Uchida, Kenko (*with* Shimemura, E.; Abe, Naoto) Circle condition and stability margin of the optimal regulator for systems with delays. **89a:34090a**

— (*with* Shimemura, E.; Kubo, T.; Abe, Naoto) Optimal regulator for linear systems with delays in state and control. Spectrum decomposition and prediction approach. **89i:34111**

— (*with* Shimemura, E.; Abe, Naoto) Corrigendum: "Circle condition and stability margin of the optimal regulator for systems with delays". **89a:34090b**

— *see also* **Shimemura, E.; et al., 89d:34129**

Unbehauen, H. (*with* Vakilzadeh, I.) Synchronization of "n" identical integral-plus-time constant plants. (Not in MR)

Ushakov, A. V. (*with* Dzhamanbaev, A. A.) A geometrical approach in the problem of finding a class of regulators that ensure zero parametric sensitivity. **89j:93038**

Vakilzadeh, I. *see* **Unbehauen, H.**, (Not in MR)

Valsamis, D. (*with* Owens, D. H.; Gray, J. O.) Stability and performance bounds for the linearisation-based analysis and design of multivariable nonlinear systems. **89d:93089**

Vaz, A. F. (*with* Davison, E. J.) A measure for the decentralized assignability of eigenvalues. **89b:93064**

— *see also* **Lin, Feng; et al.**, (Not in MR)

Verde, C. (*with* Frank, P. M.) Sensitivity reduction of the linear quadratic regulator by matrix modification. **89e:93077**

Vidyasagar, M. *see* **Ma, C. C. H., 89c:93051**

Vlasyuk, B. A. Closed-loop control of a multiproduct system of manufacturing elements. **89j:90072**

Walcott, B. L. (*with* Corless, M. J.; Żak, S. H.) Comparative study of nonlinear state-observation techniques. **89b:93027**

— *see also* **Zeitz, M., 89b:93028**

Walker, P. A. W. *see* **Torkey, F. A.**, (Not in MR)

Wang, Chao Zhu (*with* Wang, En Ping) Control system design for singular systems with an impulse model. (Chinese. English summary) **89k:93127**

Wang, En Ping *see* **Wang, Chao Zhu, 89k:93127**

Wang, Ji Hong (*with* Su, Xue Cheng) A new quasi-analytical method for designing quadratic performance target optimal systems. (Chinese. English summary) **89i:93056**

Wang, P. K. C. Feedback control of vibrations in an extendible cantilever sweptback wing. (*see* 89c:00031)

Wang, Qing Guo *see* **Sun, You Xian, 89k:93028**

Wang, Ru Qu *see* **Chen, You Gen**, (Not in MR)

Wang, Sheng Guo A synthesis algorithm for general compensation with invariant asymptotic behavior of the multivariable root locus. (Chinese. English summary) **89e:93055**

Wang, Shun Hsiang *see* **Ch'ên, Po Hsien, 89d:93057**

Wang, Yuan^2 Resistance of generalized linear systems to disturbances. (Chinese) **89e:93135**

Wei, K. H. *see* **Barmish, B. Ross, 89c:93063**

Wong, Stephen K. P. (*with* Seborg, Dale E.) Control strategy for single-input single-output nonlinear systems with time delays. **89j:34112**

Wonham, W. M. *see* **Lin, Feng; et al.**, (Not in MR)

van der Woude, J. W. Disturbance decoupling and output stabilization by measurement feedback: a combined approach. **89c:93060**

Wu, Yuan Da The design and application of an optimal quadratic system and state observer. (Chinese. English summary) (Not in MR)

Xia, Xiao Hua (*with* Gao, Wei Bing) Nonlinear observer design by observer canonical forms. **89h:93012**

Xu, Cheng Wei (*with* Lü, Yong Zai) Identification and self-learning of fuzzy models for dynamical systems. (Chinese. English summary) **89j:94052**

Xu, Ji-Han (*with* Mansour, M.) H^∞-optimal robust regulation of MIMO systems. **89m:93026**

Xu, Ke Kang An optimal regulator for singular systems. (Chinese. English summary) **89i:93069**

Yakubovich, V. A. Adaptive stabilization of continuous linear objects. **89m:93053**

Yamamoto, Yutaka *see* **Hara, Shinji; et al., 89d:93056**

Yates, R. E. *see* **Shieh, L. S.; et al., 89k:93107**

Yavin, Y. (*with* Tönsing, H.) Game of two cars with containment probability as cost function. **89j:93103**

Ye, Xiao Ye (*with* He, Xiang Wei) Feedback control for the attitude control system of an elastic space vehicle. (Chinese. English summary) **89b:93078**

Yedavalli, Rama K. Robust nonlinear computed torque control for robot manipulators. **89j:70004**

Yeh, Fang Bo (*with* Hwang, Thong Shing) Optimal sensitivity bound estimation and controller design. (Not in MR)

— (*with* Hwang, Thong Shing) A computational algorithm for the super-optimal solution of the model matching problem. **89e:93080**

Zadrozny, Peter Analytic derivatives for estimation of discrete-time, linear-quadratic, dynamic, optimization models. **89e:49028**

Zaĭchenko, Yu. P. (*with* Kovrigo, Yu. M.; Izgorev, M. Yu.) Features of the application of the modal control principle to the synthesis of automatic control systems for a technological process. (Not in MR)

Żak, S. H. *see* **Walcott, B. L.; et al., 89b:93027** *and* **Zeitz, M., 89b:93028**

Zang, Jun *see* **Hu, Shi Cai, 89e:93008**

Zapryanov, Ĭ. D. (*with* Tonev, M. I.) Robust automatic control systems. Design methods. (Bulgarian. English and Russian summaries) (Not in MR)

Zavalishchin, S. T. Programming of singular controls in the Lagrange problem in Pontryagin form. (Russian) **89a:49025**

Zeitz, M. Comments on: "Comparative study of nonlinear state-observation techniques" [Internat. J. Control **45** (1987), no. 6, 2109–2132] by B. L. Walcott, M. J. Corless and S. H. Żak. **89b:93028**

Zelikin, M. I. Group symmetry in degenerate extremal problems. **89g:49057**

Zhang, Feifei *see* **Hosoe, S., 89m:93017**

Zhang, Heng (*with* Shu, Song Gui) Analytic approach to quadratic control with prescribed relative stability. **89j:49032**

Zhang, Yu Lin (*with* Gao, Jin Chang; Zhou, Chun Hui) Static decoupling of interconnected systems. **89e:93012**

Zhao, Yao (*with* Kimura, Hidenori) Multivariable dead-beat control with robustness. **89e:93078**

— (*with* Kimura, Hidenori) Two-degrees-of-freedom dead-beat control system with robustness. **89e:93079**

Zhong, Yi Sheng (*with* Takeuchi, Tomoyoshi; Endo, K.) Decoupling control for multivariable systems with amplitude limitation on the inputs. (Not in MR)

Zhou, Chun Hui *see* **Zhang, Yu Lin; et al., 89e:93012**

Zhu, Jian Min (*with* Lü, Yong Zai) Hierarchical strategy for nonlinear optimal control systems via STWS approach. **89d:93005**

Zwart, H. J. (*with* Curtain, R. F.; Partington, J. R.; Glover, Keith) Partial fraction expansions for delay systems. (Not in MR)

Życzkowski, Michał *see* **Gajewski, Antoni, 89i:73060**

Items listed otherwise than by author

Multivariable control for industrial applications ★ Multivariable control for industrial applications. (Not in MR)

93B55 Pole and zero placement problems

Amin, M. H. (*with* Hassan, M. M.) Determination of invariant zeros and zero directions of the system $S(A,B,C,E)$. **89k:93099**

Bayoumi, M. M. *see* **Mo, Li, 89k:93106**

Berger, C. S. Robust pole-placement algorithm for adaptive control. **89k:93100**

Brusin, V. A. Control of the spectrum of multidimensional oscillatory objects. **89i:93053**

Cameron, R. G. New pole assignment algorithm with reduced norm feedback matrix. **89b:93059**

Chen, Chieh-Li (*with* Yang, Tai Cheng; Munro, N.) Output feedback pole-assignment procedure. **89m:93031**

Ch'ên, Kuo Hsien *see* **Chuang, Yao T'ang, 89k:93101**

Christodoulou, M. A. Pole placement for generalized MFDs. **89f:93018**

Chuang, Yao T'ang (*with* Ch'ên, Kuo Hsien) Robust pole-assignment for dynamic systems with uncertain parameters. (Chinese summary) **89k:93101**

Dib, H. M. *see* **Shieh, L. S.; et al., 89k:93107**

Dion, J. M. *see* **Giri, F.; et al., 89e:93110; 89k:93103** *and* (Not in MR)
Duan, Guang Ren (*with* Wu, Guang Yu; Huang, Wen Hu) Analysis of the robust stability of a discrete pole assignment control system. (Chinese. English summary) **89m:93032**
Dugard, L. *see* **Giri, F.; et al., 89e:93110; 89k:93103** *and* (Not in MR)
Emre, E. On globally stable adaptive stabilization/pole placement. **89c:93045**
Evans, M. E. Pole-assignment with periodic output feedback: computer assisted study on a 2-dimensional linear system. **89k:93102**
Feliachi, Ali Output feedback control using reduced order models. **89j:93048**
Feng, Suo Fu A generalized pole placement self-tuning controller for a class of multivariable systems. (Chinese. English summary) **89d:93048**
Fujinaka, Toru (*with* Katayama, Tohru) Discrete-time optimal regulator with closed-loop poles in a prescribed region. **89g:93048**
Ganesan, Sekar *see* **Shieh, L. S.; et al., 89k:93107**
Giannakopoulos, C. *see* **Karcanias, N.; et al.**, (Not in MR)
Giri, F. (*with* Dugard, L.; Dion, J. M.; M'Saad, M.) Stable pole placement direct adaptive control for systems with arbitrary zeros. **89e:93110**
— (*with* Dion, J. M.; M'Saad, M.; Dugard, L.) A globally convergent pole placement indirect adaptive controller. **89k:93103**
— (*with* Dion, J. M.; Dugard, L.; M'Saad, M.) Robust pole placement direct adaptive control. (Not in MR)
Grasselli, Osvaldo Maria (*with* Longhi, Sauro) Zeros and poles of linear periodic multivariable discrete-time systems. **89k:93104**
Hang, C. C. *see* **Lim, Cheng-Chew; et al.**, (Not in MR)
Hara, Shinji (*with* Kondō, R.; Katori, H.) Properties of zeros in digital control systems with computational time delay. **89k:93105**
Hassan, M. M. *see* **Amin, M. H., 89k:93099**
Hernández, Vicente García (*with* Urbano, Ana) Pole-assignment problem for discrete-time linear periodic systems. **89e:93111**
Hinamoto, Takao (*with* Maekawa, Sadao; Shimonishi, Jiro) Pole assignment for two-dimensional systems using a multifunctional observer. **89h:93023**
Ho, Lop Fat Spectral assignability of systems with scalar control and application to a degenerate hyperbolic system. **89b:93060**
Huang, Wen Hu *see* **Duan, Guang Ren; et al., 89m:93032**
Huang, Y. J. *see* **Yeung, K. S.**, (Not in MR)
Izgorev, M. Yu. *see* **Zaĭchenko, Yu. P.; et al.**, (Not in MR)
Jezierski, Edward Remarks on pole assignment by constant output feedback. (*see* **89g:00018**)
Johnson, C. D. The "unreachable poles" defect in LQR theory: analysis and remedy. (Not in MR)
Kaczorek, T. Zero-degree solutions to $AX + BY = C$ and invariant factors assignment problem. (Russian summary) **89e:93112**
Kamen, Edward W. The poles and zeros of a linear time-varying system. **89e:93113**
Karcanias, N. (*with* Laios, B.; Giannakopoulos, C.) Decentralized determinantal assignment problem: fixed and almost fixed modes and zeros. (Not in MR)
Katayama, Tohru *see* **Fujinaka, Toru, 89g:93048**
Katori, H. *see* **Hara, Shinji; et al., 89k:93105**
Kawasaki, Naoya (*with* Shimemura, E.) Pole placement in a specified region based on a linear quadratic regulator. **89e:93114**
— *see also* **Kobayashi, Hisato; et al., 89e:93115**
Kobayashi, Hisato (*with* Kawasaki, Naoya; Shimemura, E.) Relation between pole assignment and LQ regulator. **89e:93115**
Kondō, R. *see* **Hara, Shinji; et al., 89k:93105**
Kovrigo, Yu. M. *see* **Zaĭchenko, Yu. P.; et al.**, (Not in MR)
Laios, B. *see* **Karcanias, N.; et al.**, (Not in MR)
Lim, Cheng-Chew (*with* Teo, Kok-Lay; Hang, C. C.) General pole restriction controller design. (Not in MR)
Lindner, D. K. Near aggregation, the dual GHR and pole-zero cancellation. **89j:93049**
Liu, Hong Cai *see* **Wang, Jing; et al.**, (Not in MR)
Long, Zhi Yang *see* **Zhou, Qi Jie, 89g:93050**
Longhi, Sauro *see* **Grasselli, Osvaldo Maria, 89k:93104**
Maekawa, Sadao *see* **Hinamoto, Takao; et al., 89h:93023**
Maione, Bruno (*with* Turchiano, Biagio) Characterization of decoupling structural zeros of Rosenbrock's polynomial matrices. **89b:93061**
Medanic, J. (*with* Tharp, H. S.; Perkins, W. R.) Pole placement by performance criterion modification. (Not in MR)
Miminis, George S. (*with* Paige, Chris C.) A direct algorithm for pole assignment of time-invariant multi-input linear systems using state feedback. **89e:93116**
Mo, Li (*with* Bayoumi, M. M.) A novel approach to the explicit pole assignment self-tuning controller design. **89k:93106**
Moore, John Barratt (*with* Ryall, Tom; Xia, Lige) Central tendency adaptive pole assignment. (Not in MR)
M'Saad, M. *see* **Giri, F.; et al., 89e:93110; 89k:93103** *and* (Not in MR)
Munro, N. *see* **Chen, Chieh-Li; et al., 89m:93031**
Ouibrahim, H. Prony, Pisarenko, and the matrix pencil: a unified presentation. **89j:93050**
Paige, Chris C. *see* **Miminis, George S., 89e:93116**
Pan, Ya Ming (*with* Zhao, Xiao Ming) The use of the "partitioned matrix method" for the fast calculation of the pole placement adaptive control law. (Chinese. English summary) **89c:93046**
Perkins, W. R. *see* **Medanic, J.; et al.**, (Not in MR)
Polderman, J. W. A state space approach to the problem of adaptive pole assignment. **89j:93051**
Reinschke, K. J. Algebraic characterization of arbitrary pole assignability by static output feedback. **89h:93024**
Ryall, Tom *see* **Moore, John Barratt; et al.**, (Not in MR)
Shayman, Mark A. Pole placement by dynamic compensation for descriptor systems. **89i:93054**
Shen, Cheng Zhi A new method for the design of automatic regulative systems. (Chinese. English summary) (Not in MR)
Shieh, L. S. (*with* Dib, H. M.; Ganesan, Sekar; Yates, R. E.) Optimal pole-placement for state-feedback systems possessing integrity. **89k:93107**
Shimemura, E. *see* **Kawasaki, Naoya, 89e:93114** *and* **Kobayashi, Hisato; et al., 89e:93115**
Shimonishi, Jiro *see* **Hinamoto, Takao; et al., 89h:93023**
Shu, Di Qian *see* **Wang, Jing; et al.**, (Not in MR)
Sirazetdinov, R. T. Construction of a guaranteed domain for the distribution of zeros and poles of transfer functions of dynamic systems. (Not in MR)
Skvortsov, L. M. Synthesis of a control law from given poles and zeros of a transfer function. **89k:93108**
Smagina, E. M. Calculation and specification of the zeros of a linear multidimensional system. (Russian. English summary) **89f:93019**
Su, Chun Yi *see* **Zhong, Mu Liang, 89g:93049**
Su, Xue Cheng *see* **Wang, Ji Hong, 89i:93056**
Teo, Kok-Lay *see* **Lim, Cheng-Chew; et al.**, (Not in MR)
Tharp, H. S. *see* **Medanic, J.; et al.**, (Not in MR)
Turchiano, Biagio *see* **Maione, Bruno, 89b:93061**
Urbano, Ana *see* **Hernández, Vicente García, 89e:93111**
Wang, En Ping *see* **Yan, Wei Yong**, (Not in MR)
Wang, Hong^4 A pole-assignment self-tuning robust control for a class of nonlinear systems. (Chinese. English summary) **89i:93055**
Wang, Ji Hong (*with* Su, Xue Cheng) A new quasi-analytical method for designing quadratic performance target optimal systems. (Chinese. English summary) **89i:93056**
Wang, Jing (*with* Shu, Di Qian; Wu, Bao Liang; Zheng, Fu Jian; Liu, Hong Cai) A multivariable pole assignment self-tuning regulator with integrator and its application to cover annealing furnaces. (Chinese. English summary) (Not in MR)
Watanabe, Keiji Finite spectrum assignment of linear systems with a class of noncommensurate delays. **89k:93109**
Willems, Jacques L. Time-varying feedback for the stabilization of fixed modes in decentralized control systems. **89k:93110**
Williams, Trevor Transmission-zero bounds for large space structures, with applications. (Not in MR)
van der Woude, J. W. A note on pole placement by static output feedback for single-input systems. (Not in MR)
Wu, Bao Liang *see* **Wang, Jing; et al.**, (Not in MR)
Wu, Guang Yu *see* **Duan, Guang Ren; et al., 89m:93032**
Xia, Lige *see* **Moore, John Barratt; et al.**, (Not in MR)
Yan, Wei Yong (*with* Wang, En Ping) A method for dispersed pole placement using algebraic geometry. (Chinese) (Not in MR)
Yang, Tai Cheng *see* **Chen, Chieh-Li; et al., 89m:93031**
Yates, R. E. *see* **Shieh, L. S.; et al., 89k:93107**
Yeung, K. S. (*with* Huang, Y. J.) On the determination of the zeros of a SISO system. (Not in MR)
Zaĭchenko, Yu. P. (*with* Kovrigo, Yu. M.; Izgorev, M. Yu.) Features of the application of the modal control principle to the synthesis of automatic control systems for a technological process. (Not in MR)
Zhang, Fu En A direct method for pole assignment using output feedback. (Chinese. English summary) **89e:93117**
Zhang, Fue En Design of PI and PDI compensators. (Chinese. English summary) **89h:93025**
Zhao, Xiao Ming *see* **Pan, Ya Ming, 89c:93046**
Zheng, Fu Jian *see* **Wang, Jing; et al.**, (Not in MR)
Zhong, Mu Liang (*with* Su, Chun Yi) A multivariable pole-assignment self-tuning dynamic decoupling controller. (Chinese. English summary) **89g:93049**
Zhou, Qi Jie (*with* Long, Zhi Yang) Robust pole assignment by output feedback. (Chinese. English summary) **89g:93050**

Items with secondary classifications in 93B55

Abdul-Wahab, Abdul-Amir A. (*with* Zohdy, M. A.) Eigenvalue clustering in subregions of the complex plane. **89i:93057**
Abe, Naoto *see* **Uchida, Kenko; et al., 89i:34111**
Araki, Mituhiko *see* **Hagiwara, Tomomichi, 89e:93091**
Baghat, Ahmed *see* **Soliman, Hisham M., 89k:93075**
Bhattacharyya, Shankar Prashad *see* **Shafai, B., 89j:93041**
Brewer, James W. (*with* Klingler, Lee) Pole shifting for families of systems: the dimension one case. **89k:93047**
Brierley, S. D. (*with* Lee, E. B.) Coefficient assignment for generalized linear systems. (Russian and Polish summaries) **89b:93040**
Bryson, Arthur E., Jr. *see* **Wie, Bong, 89k:73055**
Byun, Kuk-Whan *see* **Wie, Bong**, (Not in MR)
Chen, Chun Hui On a numerical method for robust pole assignment by output feedback. (Chinese. English summary) **89j:93039**
Ch'ên, Po Hsien (*with* Lin, Chih Min) Multipurpose adaptive control in deterministic multivariable systems. (Not in MR)
Christodoulou, M. A. (*with* Mertzios, B. G.) Decoupling and pole placement in singular systems using state and output feedback. **89b:49049**
Chuang, Yao T'ang *see* **Lin, Shui Hsiu; et al., 89m:93074**
Dai, Guan Zhong *see* **Zhu, Zhi Xiang; et al., 89k:93138**
Dion, J. M. *see* **Giri, F.; et al., 89k:93179**
Dugard, L. *see* **Giri, F.; et al., 89k:93179**
Fahmy, Mahmoud M. (*with* O'Reilly, John) Parametric eigenstructure assignment by output-feedback control: the case of multiple eigenvalues. **89i:93058**
Fanti, Maria Pia (*with* Maione, Bruno; Turchiano, Biagio) Structurally fixed modes of systems described by Rosenbrock's polynomial matrices. **89j:93063**
Fedenia, M. M. *see* **Stojić, M. R.; et al., 89i:93041**
Fêng, I Kang *see* **Lin, Shui Hsiu; et al., 89m:93074**
Fletcher, L. R. *see* **Ho, W. C., 89k:93112**
Francis, B. A. (*with* Georgiou, Tryphon T.) Stability theory of linear time-invariant plants with periodic digital controllers. **89f:93031**
Ganesan, Sekar *see* **Mehio, M. M.; et al.**, (Not in MR)
Gao, Wei Bing *see* **Shi, Zhi Cheng, 89d:93004**
Gasanov, È. È. (*with* Kazymov, S. S.) Modal control of multidimensional objects. (Russian. English and Azerbaijani summaries) **89e:93089**

Georgiou, Tryphon T. *see* **Francis, B. A., 89f:93031**

Ghosh, Bijoy Kumar An approach to simultaneous system design. II. Nonswitching gain and dynamic feedback compensation by algebraic geometric methods. **89e:93058**

Giri, F. (*with* M'Saad, M.; Dugard, L.; Dion, J. M.) Robustness of pole placement direct adaptive control for time-varying plants. **89k:93179**

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Hayton, G. E. *see* **Pugh, A. C.; et al., 89k:93114**

He, Xiang Wei *see* **Ye, Xiao Ye, 89b:93078**

Ho, W. C. (*with* Fletcher, L. R.) Perturbation theory of output feedback pole assignment. **89k:93112**

Inaba, Hiroshi *see* **Wakayama, Takeshi, 89k:93142**

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Janecki, Dariusz Stability analysis of Elliott's direct adaptive pole placement. **89m:93030**

Jayasuriya, Suhada (*with* Kee, Chang-Doo) Circle-type criterion for synthesis of robust tracking controllers. **89g:93043**

Jin, Zhong Ji *see* **Wang, Yue Yun; et al., 89i:93068**

Kafai, A. *see* **Pugh, A. C.; et al., 89k:93114**

Kazymov, S. S. *see* **Gasanov, È. È., 89e:93089**

Kee, Chang-Doo *see* **Jayasuriya, Suhada, 89g:93043**

Klingler, Lee *see* **Brewer, James W., 89k:93047**

Kubo, T. *see* **Shimemura, E.; et al., 89d:34129** *and* **Uchida, Kenko; et al., 89i:34111**

Kuo, Tê Shêng *see* **Lin, Shui Hsiu; et al., 89m:93074**

Lee, E. B. *see* **Brierley, S. D., 89b:93040**

Lee, Shiow Harn *see* **Li, Tsu T'ien, 89i:93051**

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Li, Wen Qing Applications of number theory to control systems. (Chinese. English summary) **89j:93055**

Lin, Chih Min *see* **Ch'ên, Po Hsien,** (Not in MR)

Lin, Shui Hsiu (*with* Chuang, Yao T'ang; Fêng, I Kang; Kuo, Tê Shêng) Dynamic interval systems analysis and design. **89m:93074**

Linkens, D. A. *see* **Mansour, N. E., 89i:93083**

Luo, Zong Qian (*with* Zhou, Quan Gen) A generalized minimum variance self-tuning controller with pole assignment. (Chinese. English summary) **89g:93055**

Maione, Bruno *see* **Fanti, Maria Pia; et al., 89j:93063**

Mansour, M. *see* **Xu, Ji-Han, 89m:93026**

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Moog, Claude H. *see* **Isidori, A., 89e:93121**

M'Saad, M. *see* **Giri, F.; et al., 89k:93179**

Murotsu, Yoshisada (*with* Okubo, Hiroshi; Okawa, Yoshiyuki; Terui, Fuyuto) An approach to optimum design of output feedback control system for flexible space structures. **89k:49024**

Naudé, Cornelia Polynomial rings that are bcs-rings. **89m:13004**

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Naudé, G. *see* **Minnaar, F.; et al., 89c:13023**

Okawa, Yoshiyuki *see* **Murotsu, Yoshisada; et al., 89k:49024**

Okubo, Hiroshi *see* **Murotsu, Yoshisada; et al., 89k:49024**

Omani, F. K. Adaptive pole-placement control with filtered states and steady-state disturbance rejection. **89k:93229**

O'Reilly, John *see* **Fahmŷ, Mahmoud M., 89i:93058**

Polderman, J. W. Adaptive pole assignment by state feedback. **89k:93135**

Pugh, A. C. (*with* Kafai, A.; Hayton, G. E.) Some local results for linear systems and implications for state variable feedback. **89k:93114**

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Shi, Zhi Cheng (*with* Gao, Wei Bing) Dynamic hierarchical control for large-scale systems. (Chinese. English summary) **89d:93004**

Shieh, L. S. *see* **Mehio, M. M.; et al.,** (Not in MR)

Shimemura, E. (*with* Uchida, Kenko; Kubo, T.) LQ regulator design method for system with delay based on spectral decomposition of the Hamiltonian. **89d:34129**

— *see also* **Uchida, Kenko; et al., 89i:34111**

Soliman, Hisham M. (*with* Baghat, Ahmed) Minimum sensitivity pole placer. **89k:93075**

Stojić, M. R. (*with* Fedenia, M. M.; Stojić, R.) Sensitivities of the prescribed pole spectrum in a closed-loop control system. **89i:93041**

Stojić, R. *see* **Stojić, M. R.; et al., 89i:93041**

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(Sun, You Xian) *see* **Tarokh, M.,** (Not in MR)

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Turchiano, Biagio *see* **Fanti, Maria Pia; et al., 89j:93063**

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Vasconcelos, W. V. (*with* Weibel, C.) bcs rings. **89h:13015**

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(Wang, Qing Guo) *see* **Tarokh, M.,** (Not in MR)

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Wei, Jian Guo *see* **Zhu, Zhi Xiang; et al., 89k:93138**

Weibel, C. *see* **Vasconcelos, W. V., 89h:13015**

Wie, Bong (*with* Bryson, Arthur E., Jr.) Pole-zero modeling of flexible space structures. **89k:73055**

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Xu, Cheng Wei A novel pole-assignment self-tuning controller algorithm. (Chinese. English summary) **89m:93052**

Xu, Ji-Han (*with* Mansour, M.) H^∞-optimal robust regulation of MIMO systems. **89m:93026**

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Zeheb, Ezra On polynomials having all zeros in a half strip of the complex plane. **89g:30014**

Zhang, Zhong Jun *see* **Wang, Yue Yun; et al., 89i:93068**

(Zhou, Chun Hui) *see* **Tarokh, M.,** (Not in MR)

Zhou, Jun *see* **Tu, Jian, 89g:49047**

Zhou, Quan Gen *see* **Luo, Zong Qian, 89g:93055**

Zhu, Zhi Xiang (*with* Dai, Guan Zhong; Wei, Jian Guo) A self-tuning control system for an optical fiber drawing process. (Chinese. English summary) **89k:93138**

Zohdy, M. A. *see* **Abdul-Wahab, Abdul-Amir A., 89i:93057**

93B60 Eigenvalue problems

Abdul-Wahab, Abdul-Amir A. (*with* Zohdy, M. A.) Eigenvalue clustering in subregions of the complex plane. **89i:93057**

Al-Rahmani, Hamed M. (*with* Franklin, Gene F.) Linear periodic systems: eigenvalue assignment using discrete periodic feedback. **89j:93052**

Beelen, Th. G. J. (*with* Van Dooren, Paul) A numerical method for deadbeat control of generalized state-space systems. **89b:93062**

Byers, Ralph (*with* Nash, Stephen G.) Approaches to robust pole assignment. **89m:93033**

Chen, Chun Hui An algorithm for pole assignment by output feedback. (Chinese. English summary) (Not in MR)

Cheng, Peng An $(n-l)$th order compensator using eigenstructure assignment. (Chinese. English summary) **89e:93118**

Davison, E. J. *see* **Vaz, A. F., 89b:93064**

Eastep, F. E. *see* **Khot, N. S.; et al.,** (Not in MR)

Fahmŷ, Mahmoud M. (*with* O'Reilly, John) Multistage parametric eigenstructure assignment by output-feedback control. **89e:93119**

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Fletcher, L. R. Eigenstructure assignment by output feedback in descriptor systems. (Not in MR)

— *see also* **Ho, W. C., 89k:93112**

Franklin, Gene F. *see* **Al-Rahmani, Hamed M., 89j:93052**

Fuchs, Andreas (*with* Mukundan, Rangaswamy) Design of variable structure system controllers for large-scale multivariable systems using eigenvalue placement. **89i:93059**

Ganesan, Sekar *see* **Mehio, M. M.; et al.,** (Not in MR)

Goh, C. J. (*with* Teo, Kok-Lay) On minimax eigenvalue problems via constrained optimization. **89b:93063**

Grandhi, R. V. *see* **Khot, N. S.; et al.,** (Not in MR)

Ho, W. C. (*with* Fletcher, L. R.) Perturbation theory of output feedback pole assignment. **89k:93112**

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Mukundan, Rangaswamy *see* **Fuchs, Andreas, 89i:93059**

Murdoch, P. (*with* Salman, R. A.) Eigenvalue assignment in a single-input linear system. (Not in MR)

Nash, Stephen G. *see* **Byers, Ralph, 89m:93033**

O'Reilly, John *see* **Fahmŷ, Mahmoud M., 89e:93119; 89i:93058** *and* **89k:93111**

Öz, H. *see* **Khot, N. S.; et al.,** (Not in MR)

Patton, R. J. *see* **Mudge, S. K.,** (Not in MR)

Salman, R. A. *see* **Murdoch, P.,** (Not in MR)

Sawan, M. E. *see* **Tran, Minh T.,** (Not in MR)

Shieh, L. S. *see* **Mehio, M. M.; et al.,** (Not in MR)

Teo, Kok-Lay *see* **Goh, C. J., 89b:93063**

Tran, Minh T. (*with* Sawan, M. E.) Exact eigenvalue placement for two-time-scale discrete-time systems. (Not in MR)

Van Dooren, Paul *see* **Beelen, Th. G. J., 89b:93062**

Vaz, A. F. (*with* Davison, E. J.) A measure for the decentralized assignability of eigenvalues. **89b:93064**

Venkayya, V. B. *see* **Khot, N. S.; et al.**, (Not in MR)

Wang, Bor Chyun *see* **Ling, Yen Lei, 89e:93120**

Wang, Da Hai The uniformity of eigenstructure assignment capability. (Chinese. English summary) (Not in MR)

Wiid, F. G. J. Approximating PA. **89j:93053**

Youn, Myung-Joong *see* **Kwon, Bong-Hwan**, (Not in MR)

Zohdy, M. A. *see* **Abdul-Wahab, Abdul-Amir A., 89i:93057**

Items with secondary classifications in 93B60

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Arapostathis, Aristotle *see* **Sernik, Enrique, 89g:34055**

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Behtash, S. (*with* Sastry, S. Shankar) Stabilization of nonlinear systems with uncontrollable linearization. **89i:93086**

Berman, N. *see* **Bar-Itzhack, I. Y., 89j:93077**

Botha, J. D. *see* **Shapiro, Alexander, 89g:15016**

Bratus′, A. S. (*with* Myshkis, A. D.) Extremum conditions in spectral isoperimetric problems with a varying boundary. (Russian) **89e:49016**

Brusin, V. A. Control of the spectrum of multidimensional oscillatory objects. **89i:93053**

Byun, Seung-Wan *see* **Lee, Chong-Won**, (Not in MR)

Cerrada, C. *see* **Feliu, V.; et al.**, (Not in MR)

Cerrada, J. A. *see* **Feliu, V.; et al.**, (Not in MR)

Ch'ên, Kuo Hsien *see* **Chuang, Yao T'ang, 89k:93101**

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— *see also* **Lin, Shui Hsiu; et al., 89m:93074**

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Dib, H. M. *see* **Shieh, L. S.; et al., 89e:93103**; (Not in MR) *and* **89d:93008**

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Fêng, I Kang *see* **Lin, Shui Hsiu; et al., 89m:93074**

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Fujinaka, Toru (*with* Katayama, Tohru) Discrete-time optimal regulator with closed-loop poles in a prescribed region. **89g:93048**

Ganesan, Sekar *see* **Shieh, L. S.; et al.**, (Not in MR)

Gayek, Jonathan E. *see* **Fisher, Michael Ernest, 89b:49058**

Genesio, R. (*with* Tesi, A.) Results on the stability robustness of systems with state space perturbations. **89j:93083**

He, Xiang Wei *see* **Ye, Xiao Ye, 89b:93078**

Ho, Lop Fat Spectral assignability of systems with scalar control and application to a degenerate hyperbolic system. **89b:93060**

Horváth, M. Vibrating strings with free ends. **89e:49031**

Huang, Garng *see* **Zaborszky, John; et al., 89a:93037**

Izmailov, R. N. Eigenvectors of matrices of asymptotic identifiers. **89e:93049**

Junkins, John L. *see* **Lim, K. B., 89b:93082**

Kågström, Bo *see* **Demmel, James W., 89b:65131**

Katayama, Tohru *see* **Fujinaka, Toru, 89g:93048**

Kobayashi, Toshihiro Model reference adaptive control for spectral systems. **89i:93074**

Kuo, Tê Shêng *see* **Lin, Shui Hsiu; et al., 89m:93074**

Lastman, G. J. (*with* Sinha, N. K.) Worst-case error analysis of the aggregation method, with application to the selection of reduced-order models. **89g:93009**

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Leung, Tin-Chi *see* **Zaborszky, John; et al., 89a:93037**

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Long, Zhi Yang *see* **Zhou, Qi Jie, 89g:93050**

Martin, Clyde Franklin *see* **Dayawansa, Wijesuriya P., 89a:93013**

McWilliams, Joseph G. *see* **Anderson, David Hezekiah; et al., 89h:92003**

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— *see also* **Tharp, H. S.; et al., 89e:93106**

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Myshkis, A. D. *see* **Bratus′, A. S., 89e:49016**

Paige, Chris C. *see* **Miminis, George S., 89e:93116**

Perkins, W. R. *see* **Tharp, H. S.; et al., 89e:93106** *and* **Medanic, J.; et al.**, (Not in MR)

Ray, Goshaidas On the decentralized stabilization of interconnected discrete time systems. **89c:93004**

Rebarber, Richard Spectral assignability for distributed parameter systems with unbounded scalar control. **89m:93042**

Roller, Towanna *see* **Anderson, David Hezekiah; et al., 89h:92003**

Sastry, S. Shankar *see* **Behtash, S., 89i:93086**

Sernik, Enrique (*with* Arapostathis, Aristotle) Remarks on the periodic orbits of the matrix Riccati equation. **89g:34055**

Shaked, U. *see* **Baram, Yoram, 89j:93015**

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Tahraoui, R. Quelques remarques sur le contrôle des valeurs propres. [Some remarks on the control of eigenvalues] **89h:49004**

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Sira-Ramirez, Hebertt J. Sliding motions in bilinear switched networks. **89d:94056**

93Cxx Control systems, guided systems

93C05 Linear

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Badr, A. *see* **Aly, G.; et al.**, (Not in MR)
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Dontchev, Asen L. (*with* Vel′ov, V. M.) Singular perturbations in linear differential inclusions. I. Convergence of the trajectories. (Bulgarian. English and Russian summaries) **89h:93026a**
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Hayton, G. E. *see* **Pugh, A. C.; et al., 89k:93114**
Hinamoto, Takao *see* **Maekawa, Sadao; et al., 89j:93056**
Hoàng Xuân Phú Solution of some high-dimensional linear optimal control problems by the method of region-analysis. **89k:93113**
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Imanov, M. G. A linear time-optimality problem with a phase constraint. (Russian. English and Azerbaijani summaries) **89b:93065**
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Nakamura, Yoshinari *see* **Maekawa, Sadao; et al., 89j:93056**
Nguyễn Huỳnh Phán Topology of the spaces of symmetric linear systems. (Vietnamese. English summary) **89m:93036**
Pełczewski, Jerzy Computation of the straightforward solution of some linear state equation. (Russian summary) **89c:93047**
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Strejc, V. Discrete version of model-in-the-system control. (Russian summary) **89d:93050**
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— *see also* **Elabdalla, A. M., 89m:93054**
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Apte, Y. S. New minimal order design algorithm for linear multivariable systems. **89k:93078**
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Benzaid, Z. (*with* Lutz, D. A.) Constrained controllability of perturbed discrete-time systems. **89i:49027**
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— (*with* Keel, L. H.; Howze, J. W.) Stabilizability conditions using linear programming. (Not in MR)
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Bien, Zeungnam *see* **Kim, Young Seog**, (Not in MR)
Bisiacco, Mauro *see* **Šebek, M.; et al., 89e:93021**
(Bissell, C. C.) *see* **Kremer, H., 89f:65033**
Bitsoris, G. Positively invariant polyhedral sets of discrete-time linear systems. **89d:93031**
— *see also* **Vassilaki, M.; et al.**, (Not in MR)
Brewer, James W. (*with* Klingler, Lee) Pole shifting for families of systems: the dimension one case. **89k:93047**
Bruckstein, Alfred M. (*with* Citron, T. K.; Kailath, Thomas) Inverse scattering and minimal partial realizations. **89k:93032**
Bukov, V. N. (*with* Khorvat, Ya.) A comparative analysis of some algorithms for the identification of parameters of a linear dynamic object. (Russian summary) **89i:93111**
Burgat, Christian *see* **Benzaouia, Abdellah, 89d:93042** *and* **89i:93045**
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Byrnes, Christopher I. (*with* Castro-Linares, Rafael; Isidori, A.) Linear model matching with prescribed tracking error and internal stability for nonlinear systems. **89e:93085**
Caines, Peter E. ★ Linear stochastic systems. **89f:93037**
Calise, Anthony J. *see* **Moerder, Daniel D., 89e:93099**
Campbell, Stephen L. Control problem structure and the numerical solution of linear singular systems. **89h:34061**
Cârjă, O. On constraint controllability of linear systems in Banach spaces. **89b:49057**
Carotenuto, L. (*with* Muraca, P.; Raiconi, G.) Observation strategy for a parallel connection of discrete-time linear systems. **89m:93080**
Castro-Linares, Rafael *see* **Byrnes, Christopher I.; et al., 89e:93085**
Chakalov, Vladimir L. Extremal elements of normed spaces and some related extremal problems. I. (Russian) **89b:41040**
Chang, Jung Yü *see* **Wang, Mao Ling; et al., 89d:93038**
Chatterjee, J. *see* **Mukherjee, Rathindra Nath^2, 89e:93128**
Chen, Chieh-Li (*with* Yang, Tai Cheng; Munro, N.) Output feedback pole-assignment procedure. **89m:93031**
Chen, Dong *see* **Tu, Feng Sheng, 89b:93029**
Chen, Guan Rong *see* **Chui, C. K., 89m:93001**
Ch'ên, Po Hsien (*with* Wang, Shun Hsiang) Multivariable model matching control: perfect and imperfect cases. **89d:93057**
Chentsov, A. G. *see* **Tarasova, S. I., 89i:49020**
Cheremenskiĭ, Aleksandr G. Technical stabilization of linear control systems. (Russian. English summary) **89k:93183**
— Stabilization of linear stationary distributed systems with fixed space variables. (Russian. English and Bulgarian summaries) (Not in MR)
Chidambara, M. R. *see* **Satyanarayana, P. S.**, (Not in MR)
Christodoulou, M. A. (*with* Mertzios, B. G.) Decoupling and pole placement in singular systems using state and output feedback. **89b:49049**
— Pole placement for generalized MFDs. **89f:93018**
Chuang, Yao T'ang (*with* Hsü, Chên Fa; Kuo, Tê Shêng; Wu, Chin Fu) Allowable perturbations for the stability robustness of systems with uncertain parameters. (Chinese summary) **89a:93040**
— *see also* **Wang, Shêng Tê; et al., 89a:93028**
Chui, C. K. (*with* Chen, Guan Rong) ★ Linear systems and optimal control. **89m:93001**
Citron, T. K. *see* **Bruckstein, Alfred M.; et al., 89k:93032**
Cobb, J. Daniel Fundamental properties of the manifold of singular and regular linear systems. **89d:93001**
Cobelli, Claudio (*with* Thomaseth, Karl) On optimality of the impulse input for linear system identification. **89g:93101**
Commault, C. (*with* Descusse, J.; Dion, J. M.; Lafay, J. F.; Malabre, M.) Influence de la structure à l'infini des systèmes linéaires sur la solution des problèmes de commande. (English summary) [Influence of the structure at infinity of linear systems on the solution of control problems] **89k:93087**
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Cristi, Roberto Parallel processing in the adaptive control of linear systems. **89d:93059**
Cullen, D. J. Underlying algebraic framework of equivalence relations on linear systems. **89d:93028**
Dai, Li Yi Control problem for linear systems with input derivatives control. **89e:93131**
— Observer problem for linear systems with input derivatives control. **89k:93022**
Da Prato, G. (*with* Ichikawa, Akira) Quadratic control for linear periodic systems. **89e:49029**
Dauphin-Tanguy, G. (*with* Rotella, F.) Improvement in near-optimum regulators for singularly perturbed systems. **89j:93044**
Dayawansa, Wijesuriya P. (*with* Martin, Clyde Franklin) Observing linear dynamics with polynomial output functions. **89a:93013**
— *see also* **Ghosh, Bijoy Kumar, 89i:93027**
Deistler, Manfred *see* **Hannan, E. J., 89m:60085**
Desai, U. B. *see* **King, A. M.; et al., 89e:93181**
Descusse, J. *see* **Commault, C.; et al., 89k:93087**
Dion, J. M. (*with* Commault, C.) The minimal delay decoupling problem: feedback implementation with stability. **89a:49034**
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Doraiswami, R. On-line identification scheme using adaptive filters. **89e:93205**
Doran, Andrei L. Coordinate selection issues in the order reduction of linear systems. **89h:93016**
Dovbysh, I. G. On the problem of the stabilization of motion up to practical stability. (Russian) **89d:49045**
Duncan, T. E. (*with* Pasik-Duncan, B.) Adaptive control of linear delay time systems. **89j:93068**
Dzhamanbaev, A. A. *see* **Ushakov, A. V., 89j:93038**
Elabdalla, A. M. (*with* Amin, M. H.) Minimum-gain minimum-time deadbeat controllers. **89m:93054**
El Arabawy, I. F. *see* **Sebakhy, O. A.; et al.**, (Not in MR)
Eldem, Vasfi *see* **Selbuz, Hasan, 89i:93094**
El Singaby, M. I. *see* **Sebakhy, O. A.; et al.**, (Not in MR)
Emel′yanov, S. V. (*with* Burovoĭ, I. A.; Kirilychev, V. N.) Controllability of linear dynamical systems. **89j:93005**
Encheva, T. I. (*with* Levin, A. Yu.) Localization of zeros of quasipolynomials that arise in a linear time-optimal control problem. (Russian) **89j:49019**
Engwerda, Jacob Christiaan ★ Regulation of linear discrete time-varying systems. **89g:93061**
Everitt, W. N. Linear control theory and quasidifferential equations. **89c:93010**
Farison, J. B. *see* **Kolla, S. R.**, (Not in MR)
Feliachi, Ali Output feedback control using reduced order models. **89j:93048**
Fêng, I Kang *see* **Su, Te-Jen; et al., 89i:93100**
Feng, Weining Characterization and computation for the bound ε^* in linear time-invariant singularly perturbed systems. **89i:93096**
Ferreira, Pedro M. G. DDP and model following problem revisited. **89k:93088**
(Fidler, J. K.) *see* **Kremer, H., 89f:65033**
Filipović, Vojislav Ž. *see* **Kovačević, Branko D.**, (Not in MR)
Fisher, Michael Ernest (*with* Gayek, Jonathan E.) Estimating reachable sets for two-dimensional linear discrete systems. **89b:49058**
Fornasini, Ettore *see* **Šebek, M.; et al., 89e:93021**
Fortuna, L. (*with* Gallo, Antonio; Guglielmino, C.; Nunnari, G.) On the solution of a nonlinear matrix equation for MIMO symmetric realizations. **89e:93036**
Francis, B. A. ★ A course in H_∞ control theory. **89i:93002**
Franklin, Gene F. *see* **Al-Rahmani, Hamed M., 89j:93052**
Furuta, K. (*with* Yamakita, M.; Sato, Yoshiya) Computation of optimal control for linear systems with delay. **89m:49052**
Fúster, Amparo An extended linear model for nonuniformly sampled systems. (Spanish) (Not in MR)
Gabasov, R. (*with* Kirillova, F. M.; Nguen Chan) An approach to the solution of an optimal control problem with trajectory retention for a linear system with delay. (Russian. English summary) **89b:34171**
Gabelaya, A. G. A frequency criterion for the stabilizability of linear autonomous systems with incomplete information. (Russian. English and Georgian summaries) **89k:93160**
Gallo, Antonio *see* **Fortuna, L.; et al., 89e:93036**
Gao, Wei Bing *see* **Shi, Zhi Cheng, 89m:93005**
Gasanov, È. È. (*with* Kazymov, S. S.) Modal control of multidimensional objects. (Russian. English and Azerbaijani summaries) **89e:93089**
Gayek, Jonathan E. *see* **Fisher, Michael Ernest, 89b:49058**
Geerts, A. H. W. ★ A new method to determine the infinite zero structure of a linear time-invariant system. **89e:93030**
Genesio, R. (*with* Tesi, A.) Results on the stability robustness of systems with state space perturbations. **89j:93083**
Georgiev, Alexander A. On the identification of time-varying dynamic systems by nonparametric procedures. **89j:93127**
Gerencsér, László Parameter tracking of time-varying continuous-time linear stochastic systems. (*see* **89b:93008**)
Germani, A. (*with* Jetto, L.; Piccioni, M.) Galerkin approximation for optimal linear filtering of infinite-dimensional linear systems. **89j:93117**
Geromel, J. C. (*with* Silva Filho, O. S.) Partial closed-loop control structure for linear stochastic systems. (Not in MR)
Gevers, M. *see* **Mareels, I. M. Y., 89j:93098**
Ghosh, Bijoy Kumar (*with* Dayawansa, Wijesuriya P.) Differential geometric methods in hybrid parametrization of linear dynamical systems. **89i:93027**
— *see also* **Lirov, Yuval, 89a:93018**
Gibson, James S. (*with* Rosen, I. G.) Approximation of discrete-time LQG compensators for distributed systems with boundary input and unbounded measurement. **89e:93090**
Gol′dman, A. Yu. Asymptotic design of control systems with an identifiable coordinate. (Russian. English summary) (Not in MR)
Golubev, G. A. Design of minimax linear filters on the basis of a local and an integral criterion. **89j:93118**
Goodwin, Graham C. *see* **de Souza, Carlos E.; et al., 89d:34130**
Gorez, R. *see* **Lamba, S. S.; et al., 89e:93042**
Gostev, V. I. A table of transfer functions of optimal digital regulators for linearly varying inputs. (Not in MR)
Grasse, Kevin A. Sufficient conditions for the functional reproducibility of time-varying, input-output systems. **89c:93014**
Grasselli, Osvaldo Maria (*with* Longhi, Sauro) Disturbance localization by measurement feedback for linear periodic discrete-time systems. **89g:93041**
— (*with* Longhi, Sauro) Zeros and poles of linear periodic multivariable discrete-time systems. **89k:93104**
Green, W. L. (*with* Morley, T. D.) Four variational formulations of the contraharmonic mean of operators. **89b:47029**
Grizzle, Jessy W. (*with* Shor, M. H.) Sampling, infinite zeros and decoupling of linear systems. **89f:93028**
Gubin, S. V. (*with* Kovalev, A. M.) Gauge function of the domain of attainability of a linear control system and its application in estimation problems. (Russian. English summary) **89a:49037**
— (*with* Kovalev, A. M.) On constructing the attainability sets of linear nonautonomous systems with resource constraints. **89b:49059**
Guglielmino, C. *see* **Fortuna, L.; et al., 89e:93036**
Halikias, G. D. *see* **Limebeer, D. J. N., 89e:93073**
Hamano, Fumio Necessary and sufficient conditions for subspace reachability and controllability of discrete-time, time-invariant linear dynamical systems. **89j:49037**
Han, Jia-Yuan (*with* Wyman, Bostwick F.) Reachability of linear systems with subspace open constraints. (*see* **89f:00025**)
Han, Jian Xun *see* **Qin, Xia**, (Not in MR)
Han, Zheng Zhi The consistent condition of disturbance decoupling of decentralized control. (Chinese summary) **89j:93024**
Hannan, E. J. (*with* Deistler, Manfred) ★ The statistical theory of linear systems. **89m:60085**
Hanzon, B. On a coordinate free prediction error algorithm for system identification. **89c:93077**
Hassan, M. F. New multi-level algorithm for linear dynamical systems. **89k:93010**
Hassan, M. M. *see* **Amin, M. H., 89k:93050** *and* **89k:93099**
Heij, C. *see* **Willems, J. C., 89c:93025**
Hennet, J.-C. *see* **Vassilaki, M.; et al.**, (Not in MR)
Hernández, Vicente García (*with* Urbano, Ana) Pole-assignment problem for discrete-time linear periodic systems. **89e:93111**
Hikita, H. Servomechanisms based on sliding mode control. (Not in MR)
Hoàng Xuân Phú Zur Lösung des linearisierten Knickstab-Problems mit beschränkter Ausbiegung. (English and Russian summaries) [On the solution of the linearized buckling-rod problem with restricted bending] **89a:73037**
— Linear optimal control problem of a system with circuit-free graph structure. **89m:49035**
Hopkins, William E., Jr. Optimal stabilization of families of linear stochastic differential equations with jump coefficients and multiplicative noise. **89d:93080**
Howze, J. W. *see* **Bhattacharyya, Shankar Prashad; et al., 89b:93086** *and* (Not in MR)
Hsieh, Ch'ing Hsieh (*with* Huang, Ch'i) An algorithm for evaluating Schwarz form. (Chinese summary) (Not in MR)
Hsü, Chên Fa *see* **Wang, Shêng Tê; et al., 89a:93028** *and* **Chuang, Yao T'ang; et al., 89a:93040**
Hu, Shi Cai (*with* Zang, Jun) The disturbance decoupling problem in decentralized linear multivariable systems by local dynamic feedback. **89e:93008**
Huang, Ch'i *see* **Shyu, Kuo Kai, 89e:93053** *and* **Hsieh, Ch'ing Hsieh**, (Not in MR)
Huang, Lin Some new results in multivariable linear system. Some achievements in China, 1980–1984. **89c:93048**
Humbert, C. *see* **Mehdi, D., 89g:93092**
Hunt, K. J. (*with* Šebek, M.) Optimal multivariable regulation with disturbance measurement feedforward. (Not in MR)
Ichikawa, Akira *see* **Da Prato, G., 89e:49029**
Imanov, M. G. Sufficient conditions for optimality in a linear time-optimality problem with phase constraints. (Russian. English and Azerbaijani summaries) **89h:49012**
Inaba, Hiroshi *see* **Wakayama, Takeshi, 89k:93142**
Inouye, Yujiro (*with* Kato, Koichi) Matrix-fraction descriptions and the McMillan form of a transfer function meromorphic in the unit disk. **89k:93051**
Ionescu, D. *see* **Rabah, R., 89c:93059**
Isidori, A. *see* **Byrnes, Christopher I.; et al., 89e:93085**
Iskra, K. K. *see* **Minyuk, S. A., 89e:93020**
Ivonis, È. A method for the optimization of a multidimensional linear nonstationary dynamical system with a variable set of controls. (Russian) **89f:49022**
Izhvanov, Yu. L. *see* **Kusov, I. F.; et al., 89i:93019**
Izmaĭlov, R. N. Transient processes in linear stationary systems. **89e:93092**
Jacobson, Clas A. (*with* Nett, Carl N.) Linear state-space systems in infinite-dimensional space: the role and characterization of joint stabilizability/detectability. **89e:93127**
Jakubczyk, B. Feedback linearization of discrete-time systems. **89g:93020**
Jan, Yih-Jena *see* **Wang, Mao Ling; et al., 89d:93038**
Jasinski, Heinrich (*with* Wagner, Peter) Zur Erreichbarkeitsmenge eines linearen dynamischen Systems mit unterschiedlicher Zeitverzögerung in den Phasenkoordinaten. (English and Russian summaries) [On the attainable set of a linear dynamic system with different time lag in the phase coordinates] **89e:49032**
Jetto, L. *see* **Germani, A.; et al., 89j:93117**
Jiang, Chung Li Sufficient and necessary condition for the asymptotic stability of discrete linear interval systems. (Not in MR)
— *see also* **Kolla, S. R.**, (Not in MR) *and* **Karl, W. Clem**, (Not in MR)
Jódar, Lucas Integral equations and time varying linear systems. **89d:45020**
Johnson, C. D. A singular condition in linear adaptive control theory. **89i:93073**
Jonckheere, Edmond *see* **Kitapçi, Aysin; et al., 89a:93049**
Junkins, John L. *see* **Lim, K. B., 89b:93082**
Jurdjevic, V. (*with* Kupka, I. A. K.) Linear systems with degenerate quadratic costs. **89d:49018**
Kaczorek, T. Straight line reachability of two-dimensional linear systems. **89b:49060**
— Sufficient conditions for impulse uncontrollability and impulse unobservability of singular systems. **89k:93121**
— The singular general model of 2-D systems and its solution. (Not in MR)
— (*with* Świerkosz, M.) General model of n-D system with variable coefficients and its reduction to 1-D system with variable structure. **89j:93019**
Kailath, Thomas *see* **Bruckstein, Alfred M.; et al., 89k:93032**
Kamen, Edward W. The poles and zeros of a linear time-varying system. **89e:93113**
— *see also* **Poolla, K. R.; et al., 89d:93020**
Kaminskas, Vytautas (*with* Sakalauskas, Eligijus) An algorithm for the identification of linear distributed-parameters systems. (Not in MR)
Karl, W. Clem (*with* Verghese, George C.) Comments on: "Sufficient and necessary condition for the asymptotic stability of discrete linear interval systems" [Internat. J. Control **47** (1988), no. 5, 1563–1565] by C. L. Jiang. (Not in MR)
Kato, Koichi *see* **Inouye, Yujiro, 89k:93051**
Kazymov, S. S. *see* **Gasanov, È. È., 89e:93089**
Keel, L. H. *see* **Bhattacharyya, Shankar Prashad; et al., 89b:93086** *and* (Not in MR)
Khaĭlov, E. N. Analytic parametrization of the set of controllability in a linear control problem. (Russian) **89j:49038**

Khargonekar, Pramod P. *see* **Zhou, Kemin, 89c:93061**; **Poolla, K. R.; et al., 89d:93020** *and* **Rotea, Mario A., 89j:93092**
Khorvat, Ya. *see* **Bukov, V. N., 89i:93111**
Khristov, Nikolaĭ D. *see* **Petkov, Petko Khr.; et al.**, (Not in MR)
Kim, Sang Woo *see* **Lee, Sang Jeong.; et al., 89c:34088**
Kim, Young Seog (*with* Bien, Zeungnam) Two stable MRAC algorithms for linear discrete-time multivariable plants. (Not in MR)
Kimura, Hidenori Conjugation, interpolation and model-matching in H^∞. **89k:93060**
Kimura, Morishige Convergence of the doubling algorithm for the discrete-time algebraic Riccati equation. **89j:93040**
King, A. M. (*with* Desai, U. B.; Skelton, Robert E.) A generalized approach to q-Markov covariance equivalent realizations for discrete systems. **89e:93181**
Kirillova, F. M. *see* **Gabasov, R.; et al., 89b:34171**
Kirilychev, V. N. *see* **Emel′yanov, S. V.; et al., 89j:93005**
Kitapçi, Aysin (*with* Jonckheere, Edmond; Silverman, Leonard) Singular optimal filtering. **89a:93049**
Klingler, Lee *see* **Brewer, James W., 89k:93047**
Kocięcki, M. *see* **Banaszuk, A.; et al., 89c:93008**
Kolesov, N. V. The diagnosis of linear discrete time-dependent systems. (Not in MR)
Kolla, S. R. (*with* Farison, J. B.) Counter-examples to: "Sufficient and necessary condition for the asymptotic stability of discrete linear interval systems" [Internat. J. Control **47** (1988), no. 5, 1563–1565] by C. L. Jiang. (Not in MR)
— *see also* **Yedavalli, Rama K.**, (Not in MR)
Kolodziej, Wojciech J. (*with* Mohler, Ronald R.) On structurally decomposing processes. **89m:93091**
Konstantinov, Mikhail M. *see* **Petkov, Petko Khr.; et al.**, (Not in MR)
Kopets, M. M. Synthesis of a terminal control in the case of a linear infinite-dimensional system with constant delay in the control. **89d:93044**
Korobov, V. I. (*with* Sklyar, G. M.) A constructive method for solving the problem of synthesis. (Russian) **89j:93046**
— (*with* Sklyar, G. M.) Time-optimality and the power moment problem. **89b:93056**
Kovačević, Branko D. (*with* Filipović, Vojislav Ž.) Robust real-time identification of linear systems with correlated noise. (Not in MR)
Kovalev, A. M. *see* **Gubin, S. V., 89a:4^{0}037** *and* **89b:49059**
Kremer, H. ★ Numerical analysis of linear networks and systems. **89f:65033**
Krutin′, V. I. Stabilization of output signals in linear controllable systems within a finite time. **89i:93090**
Kryazhimskiĭ, A. V. (*with* Osipov, Yu. S.) On the regularization of a convex extremal problem with inexactly given constraints. Application to an optimal control problem with phase constraints. (Russian) **89f:49032**
Kuhn, Udo (*with* Schmidt, Günther) Fresh look into the design and computation of optimal output feedback controls for linear multivariable systems. **89e:93096**
Kuntsevich, V. M. Determination of guaranteed estimates for the state vectors and parameters of discrete dynamical systems. (Russian) **89e:93067**
Kuo, Tê Shêng *see* **Wang, Shêng Tê; et al., 89a:93028**; **Chuang, Yao T'ang; et al., 89a:93040** *and* **Su, Te-Jen; et al., 89i:93100**
Kupka, I. A. K. *see* **Jurdjevic, V., 89d:49018**
Kurzhanskiĭ, A. B. Set-valued calculus in problems of adaptive control. **89m:93049**
Kushner, Harold J. (*with* Runggaldier, Wolfgang J.) Filtering and control for wide bandwidth noise and "nearly" linear systems. **89j:93121**
Kusov, I. F. (*with* Tumanov, M. P.; Izhvanov, Yu. L.) An algebraic approach to the analysis of nonstationary dynamical systems. (Russian) **89i:93019**
Kwakernaak, Huibert A polynomial approach to minimax frequency domain optimization. **89c:93028**
Kwon, W. H. *see* **Lee, Sang Jeong; et al., 89c:34088**
Lafay, J. F. *see* **Commault, C.; et al., 89k:93087**
Lamba, S. S. (*with* Gorez, R.; Bandyopadhyay, B.) New reduction technique by step error minimization for multivariable systems. **89e:93042**
Laptinskiĭ, V. N. A method for stabilizing linear periodic control systems. (Russian. English summary) **89m:93068**
Lee, Sang Jeong (*with* Rao, A. N. V.) Stochastic optimal control problem with nonstandard boundary conditions. **89b:93118**
— (*with* Kwon, W. H.; Kim, Sang Woo) LQG/LTR methods for linear input-delayed systems. **89c:34088**
Lee, T. N. (*with* Radovic, U. L.) Decentralized stabilization of linear continuous and discrete-time systems with delays in interconnections. **89k:93171**
Levin, A. Yu. *see* **Encheva, T. I., 89j:49019**
Li, Si Fu An improvement of model algorithmic control. (Chinese. English summary) **89j:93064**
Li, Tsu T'ien (*with* Tsay, Shuh Chuan) Approximate solutions for linear time-delay systems via the Padé approximation and orthogonal polynomials expansions. **89h:34071**
— (*with* Tsay, Shuh Chuan) Solution of linear dynamic systems with initial or boundary value conditions by shifted Chebyshev approximations. **89e:93051**
— *see also* **Tsay, Shuh Chuan; et al., 89d:93024**
Lidov, M. L. An algorithm for the estimation of parameters of motion in problems with nonmodelable acceleration. **89j:93029**
Lim, K. B. (*with* Junkins, John L.) Probability of stability: new measures of stability robustness for linear dynamical systems. **89b:93082**
Limebeer, D. J. N. (*with* Halikias, G. D.) A controller degree bound for $\mathscr{H}^\infty$-optimal control problems of the second kind. **89e:93073**
Lin, Yu-Hwan *see* **Wang, Shêng Tê; et al., 89a:93028**
Lin, Zhi Ping Feedback stabilization of multivariable two-dimensional linear systems. **89k:93123**
Lindner, D. K. (*with* Perkins, W. R.) The generalized Hessenberg representation and near aggregation. **89k:93025**
Lirov, Yuval (*with* Ghosh, Bijoy Kumar) Simultaneous identification of linear systems: a heuristic approach. **89a:93018**
Littman, Walter (*with* Markus, Lawrence) Exact boundary controllability of a hybrid system of elasticity. **89j:93007**
Litvin, I. N. Controllability of systems with random parameters. (Russian) **89d:93010**
Ljung, Lennart Frequency and time domain methods in system identification. **89c:93079**
Lomadze, V. G. Generalized linear autonomous dynamical systems. (Russian. English and Georgian summaries) **89a:58101**
Longhi, Sauro *see* **Grasselli, Osvaldo Maria, 89g:93041** *and* **89k:93104**
Lü, Yong Zai *see* **Zhu, Jian Min, 89k:93056** *and* **Zheng, Jian De, 89m:93006**
Lubochkin, A. V. An algorithm for the construction of admissible control of minimal intensity for a linear system. (Russian) (Not in MR)
Lutz, D. A. *see* **Benzaid, Z., 89i:49027**
Ma, Jin On state estimation with infinite duration. (Chinese. English summary) **89e:93186**
Mahmoud, Magdi S. (*with* Bahnasawi, Ahmed A.) Asymptotic stability for a class of linear discrete systems with bounded uncertainties. (Not in MR)
Mäkilä, P. M. *see* **Toivonen, H. T.**, (Not in MR)
Malabre, M. *see* **Commault, C.; et al., 89k:93087**
Marchenko, Vladimir Matveevich Modal control in systems with aftereffect. **89m:93034**
— (*with* V″lkova, Yu. S.) Game-theoretic controllability problems for linear discrete systems. (Russian. English summary) **89c:90125**
Mareels, I. M. Y. (*with* Gevers, M.) Persistency of excitation criteria for linear, multivariable, time-varying systems. **89j:93098**
Mariton, M. Averaged dynamics and pole assignment for a class of stochastic systems. **89k:93220**
Markus, Lawrence *see* **Littman, Walter, 89j:93007**
Mårtensson, Bengt Adaptive stabilization of multivariable linear systems. **89d:93061**
— Dynamic high-gain stabilization of multivariate linear systems, with application to adaptive control. **89j:93090**
Martin, Clyde Franklin *see* **Dayawansa, Wijesuriya P., 89a:93013**
Matuzonis, Arvydas Identification of linear objects in a closed loop with noise in the input and output observations. (Russian. English and Lithuanian summaries) (Not in MR)
Mayne, D. Q. *see* **de Souza, Carlos E.; et al., 89d:34130**
Megan, M. *see* **Preda, P., 89f:93030**
Mehdi, D. (*with* Humbert, C.) Simulation studies on sample convergence in parameter estimation of discrete time stochastic process with stochastic parameters. **89g:93092**
Mellichamp, D. A. *see* **Benallou, A.; et al.**, (Not in MR)
Mertzios, B. G. *see* **Christodoulou, M. A., 89b:49049**
Michel, A. N. *see* **Miller, Richard K.; et al.**, (Not in MR)
Mikhaĭlov, F. A. ★ Теория и методы исследования нестационарных линейных систем. (Russian) [Theory and methods for investigating nonstationary linear systems] **89g:93001**
Miller, D. F. Impulse response matching for z-domain identification with application to model order reduction. **89c:93036**
Miller, Richard K. (*with* Mousa, M. S.; Michel, A. N.) Quantization and overflow effects in digital implementations of linear dynamic controllers. (Not in MR)
Miminis, George S. (*with* Paige, Chris C.) A direct algorithm for pole assignment of time-invariant multi-input linear systems using state feedback. **89e:93116**
Minyuk, S. A. On the theory of the controllability and feasibility of linear stationary differential-difference systems. (Russian) **89i:49025**
— Complete null-controllability and observability of linear systems with retarded argument. (Russian) **89k:34137**
— (*with* Iskra, K. K.) Controllability and observability of first-order linear partial differential systems. (Russian. English summary) **89e:93020**
Misra, Pradeep (*with* Patel, R. V.) A determinant identity and its applications in evaluating frequency response matrices. (*see* **89f:00025**)
Moerder, Daniel D. (*with* Calise, Anthony J.) Near-optimal output feedback regulation of ill-conditioned linear systems. **89e:93099**
Mohler, Ronald R. *see* **Kolodziej, Wojciech J., 89m:93091**
Morley, T. D. *see* **Green, W. L., 89b:47029**
Morris, Kirsten Anna *see* **Aplevich, J. D., 89i:93044**
Morse, A. Stephen Simple algorithms for adaptive stabilization. **89g:93057**
Mousa, M. S. *see* **Miller, Richard K.; et al.**, (Not in MR)
Mukherjee, Rathindra Nath^2 (*with* Chatterjee, J.) Verification of the global controllability for a certain class of time optimal control problems. **89e:93128**
Munakata, Tsunehiro (*with* Nishida, Yuso) Suboptimal minimal-time control to discrete quantized linear control systems with integer coefficients. **89k:49023**
Munro, N. *see* **Chen, Chieh-Li; et al., 89m:93031**
Muraca, P. *see* **Carotenuto, L.; et al., 89m:93080**
Murdoch, P. (*with* Salman, R. A.) Eigenvalue assignment in a single-input linear system. (Not in MR)
Nagaoka, Hiroshi Mullis-Roberts-type approximation for continuous-time linear systems. **89m:93057**
(Negoita, Constantin V.) *see* **Andrei, Neculai, 89e:93007**
Nett, Carl N. *see* **Jacobson, Clas A., 89e:93127**
Newmann, M. M. *see* **Roberts, A. P., 89i:93025**
Nguen Chan *see* **Gabasov, R.; et al., 89b:34171**
Nieuwenhuis, J. W. Some results about a Leontieff-type model. **89c:90043**
— (*with* Willems, J. C.) Duality for linear time invariant finite-dimensional systems. **89j:49009**
— Stability analysis by means of modern linear systems theory. **89k:93156**
Nishida, Yuso *see* **Munakata, Tsunehiro, 89k:49023**
Nishikawa, Yoshikazu *see* **Shirazi, M. N.; et al., 89k:93199**
Nunnari, G. *see* **Fortuna, L.; et al., 89e:93036**
Obruchev, V. L. *see* **Salyga, V. I.; et al., 89b:93110**
Odintsova, E. A. An algorithm for the control of a linear dynamic object with constraints on the rate of change and on the sum of the components of the control vector. (Russian) (*see* **89f:93002**)
Ortega, Romeo A direct adaptive controller for linear periodic plants. (Not in MR)
Osipov, Yu. S. *see* **Kryazhimskiĭ, A. V., 89f:49032**
Özveren, Cüneyt M. (*with* Verghese, George C.; Willsky, Alan S.) Asymptotic orders of reachability in perturbed linear systems. **89g:49052**
Paige, Chris C. *see* **Miminis, George S., 89e:93116**
Palanisamy, K. R. (*with* Balachandran, Krishnan; Ramaswamy, R. S.) Effect of time delay on system performance via single term Walsh series approach. **89d:34128**

Palaniswami, M. *see* **de Souza, Carlos E.; et al., 89d:34130**

Park, Youngjin (*with* Stein, Jeffrey L.) Closed-loop, state and input observer for systems with unknown inputs. (Not in MR)

Pasik-Duncan, B. *see* **Duncan, T. E., 89j:93068**

Patel, R. V. *see* **Misra, Pradeep, (89f:00025)**

Pełczewski, Jerzy Computation of the time-optimal control for some linear systems. (Russian and Polish summaries) **89i:93052**

Perkins, W. R. *see* **Lindner, D. K., 89k:93025**

Petkov, Petko Khr. (*with* Khristov, Nikolaĭ D.; Konstantinov, Mikhail M.) The interactive system SYSLAB for the analysis and design of linear multidimensional systems. (Bulgarian. English and Russian summaries) (Not in MR)

Piccioni, M. *see* **Germani, A.; et al., 89j:93117**

Polunin, I. A. Adaptive control of a nonminimal-phase linear discrete object. (Russian. English summary) **89d:93084**

Poolla, K. R. (*with* Kamen, Edward W.; Khargonekar, Pramod P.) Polynomial and stable-proper factorizations of transfer-function matrices for linear time-varying systems. **89d:93020**

Popchev, Ivan P. (*with* Savov, S.) An approach to the decentralized stabilization of linear continuous-time large scale systems. **89j:93091**

Porosiński, Zdzisław (*with* Szajowski, Krzysztof; Trybuła, Stanisław) Minimax control of a second order linear system. **89b:93121**

Preda, P. (*with* Megan, M.) On the stability of linear infinite-dimensional discrete-time systems. (Serbo-Croatian summary) **89f:93030**

Przyłuski, K. M. Stability of linear infinite-dimensional systems revisited. **89j:93101**

— Remarks on the stability of linear infinite-dimensional discrete-time systems. **89g:93087**

— *see also* **Banaszuk, A.; et al., 89c:93008**

Pugh, A. C. *see* **Taylor, G. E., 89h:93006**

Qin, Xia (*with* Han, Jian Xun) The identification of linear continuous-time systems from small samples of input-output data. (Chinese. English summary) (Not in MR)

Rabah, R. (*with* Ionescu, D.) Stabilization problem in Hilbert spaces. **89c:93059**

Radovic, U. L. *see* **Lee, T. N., 89k:93171**

Raiconi, G. *see* **Carotenuto, L.; et al., 89m:93080**

Ramaswamy, R. S. *see* **Palanisamy, K. R.; et al., 89d:34128**

Rao, A. N. V. *see* **Lee, Sung J., 89b:93118**

Roberts, A. P. (*with* Newmann, M. M.) Polynomial optimization of stochastic feedback control for stable plants. **89i:93025**

Roche-Zamboni, I. *see* **Barraud, A., 89e:93202**

Rosen, I. G. *see* **Gibson, James S., 89e:93090**

Rotea, Mario A. (*with* Khargonekar, Pramod P.) Stabilizability of linear time-varying and uncertain linear systems. **89j:93092**

Rotella, F. *see* **Dauphin-Tanguy, G., 89j:93044**

Rudenko, O. G. *see* **Salyga, V. I.; et al., 89b:93110**

Runggaldier, Wolfgang J. *see* **Kushner, Harold J., 89j:93121**

Saburov, M. S. Existence theorems in a number of optimal control problems. (Russian) **89b:49003**

Sadykov, F. R. A graphical frequency criterion for L_2-stability for multidimensional nonstationary dynamical systems. **89e:93134**

Saito, Toshio A general approach to the characterization of changes in system behaviour by output feedback. **89k:93008**

Sakalauskas, Eligijus *see* **Kaminskas, Vytautas, (Not in MR)**

Salman, R. A. *see* **Murdoch, P., (Not in MR)**

Salyga, V. I. (*with* Rudenko, O. G.; Obruchev, V. L.) Reduced multistep algorithms for identification of linear plants. (Russian summary) **89b:93110**

Sandberg, Irwin W. Integral representations for linear maps. **89b:93031**

Sannomiya, N. *see* **Shirazi, M. N.; et al., 89k:93199**

Sato, Yoshiya *see* **Furuta, K.; et al., 89m:49052**

Satyanarayana, P. S. (*with* Chidambara, M. R.) Sub-optimal control via lower order generalized aggregated models. (Not in MR)

Savona, C. Approximate nonlinear filtering for piecewise linear systems. **89j:93122**

Savov, S. *see* **Popchev, Ivan P., 89j:93091**

Schmidt, Günther *see* **Kuhn, Udo, 89e:93096**

Sebakhy, O. A. (*with* El Singaby, M. I.; El Arabawy, I. F.) Shaping of the output response in a class of linear multivariable systems. (Not in MR)

Šebek, M. (*with* Bisiacco, Mauro; Fornasini, Ettore) Controllability and reconstructibility conditions for 2-D systems. **89e:93021**

— *see also* **Hunt, K. J., (Not in MR)**

Seborg, Dale E. *see* **Benallou, A.; et al., (Not in MR)**

Segal, Mordechai (*with* Weinstein, Ehud) A new method of evaluating the log-likelihood gradient (score) of linear dynamic systems. **89d:93095**

Seidman, Thomas I. How violent are fast controls? **89a:93012**

Selbuz, Hasan (*with* Eldem, Vasfi) Kleinman's controller: a further stabilizing property. **89i:93094**

de la Sen, Manuel On the extension of Rosenbrock's theory in algebraic design of multivariable controllers. **89b:93057**

— A Lyapunov-Poincaré stability analysis for nonperiodic sampling systems. **89b:93096**

— Optimal prediction and control in the presence of unmodelled dynamics. **89e:93229**

Shafai, B. (*with* Bhattacharyya, Shankar Prashad) An algorithm for pole assignment in high order multivariable systems. **89j:93041**

Shi, Zhi Cheng (*with* Gao, Wei Bing) Decentralized control for linear time-varying systems. **89m:93005**

Shirazi, M. N. (*with* Sannomiya, N.; Nishikawa, Yoshikazu) Robust ε-contaminated Gaussian filtering of discrete-time linear systems. **89k:93199**

Shor, M. H. *see* **Grizzle, Jessy W., 89f:93028**

Shushlyapin, E. A. On the equivalence of a piecewise-constant control with a known number of switchings and an arbitrary amplitudinally bounded control in a terminal problem for a linear nonstationary system. (Russian) (*see* **89c:00012**)

Shyu, Kuo Kai (*with* Huang, Ch'i) Optimal control of linear time-varying discrete systems via discrete Legendre orthogonal polynomials. **89e:93053**

Silva Filho, O. S. *see* **Geromel, J. C., (Not in MR)**

Silverman, Leonard *see* **Kitapçi, Aysin; et al., 89a:93049**

Sinai, Massoud Suboptimality bounds on decentralized control and estimation of large-scale discrete-time linear systems. **89e:93009**

Skelton, Robert E. *see* **King, A. M.; et al., 89e:93181**

Sklyar, G. M. *see* **Korobov, V. I., 89b:93056** *and* **89j:93046**

Slavov, J. I. *see* **Dontchev, Asen L., 89m:49066**

de Souza, Carlos E. (*with* Goodwin, Graham C.; Mayne, D. Q.; Palaniswami, M.) An adaptive control algorithm for linear systems having unknown time delay. **89d:34130**

Speyer, Jason L. The linear-quadratic control problem. **89b:49051**

Stein, Jeffrey L. *see* **Park, Youngjin, (Not in MR)**

Su, Te-Jen (*with* Fêng, I Kang; Kuo, Tê Shêng; Sun, Yü I.) Robust stability for linear time-delay systems with linear parameter perturbations. **89i:93100**

Sun, Yü I. *see* **Su, Te-Jen; et al., 89i:93100**

Świerkosz, M. *see* **Kaczorek, T., 89j:93019**

Szajowski, Krzysztof *see* **Porosiński, Zdzisław; et al., 89b:93121**

Szczepaniak, P. S. Sensitivity analysis of linear systems using orthogonal functions. **89i:93042**

Tarasova, S. I. (*with* Chentsov, A. G.) Minimization of maximal deviation from a system of convex sets. (Russian. English summary) **89i:49020**

Taylor, G. E. (*with* Pugh, A. C.) Equivalence of generalised state-space systems: new results. **89h:93006**

Tesi, A. *see* **Genesio, R., 89j:93083**

Theodorou, N. *see* **Tzafestas, Spyros G., 89h:93013**

Thomaseth, Karl *see* **Cobelli, Claudio, 89g:93101**

Toivonen, H. T. (*with* Mäkilä, P. M.) Computer-aided design procedure for multiobjective LQG control problems. (Not in MR)

Topuzu, E. Some counterexamples in controllability of linear discrete time systems. (Romanian summary) **89j:93009**

Triggiani, R. Exact controllability for wave equation with Neumann boundary control. **89g:93006**

Trybuła, Stanisław *see* **Porosiński, Zdzisław; et al., 89b:93121**

Tsay, Shuh Chuan (*with* Wu, I. Long; Li, Tsu T'ien) Optimal control of linear time-delay systems via general orthogonal polynomials. **89d:93024**

— *see also* **Li, Tsu T'ien, 89e:93051** *and* **89h:34071**

Tu, Feng Sheng (*with* Chen, Dong) Jordan invariants and canonical forms for linear multivariable systems. (Chinese. English summary) **89b:93029**

Tumanov, M. P. *see* **Kusov, I. F.; et al., 89i:93019**

Tzafestas, Spyros G. (*with* Theodorou, N.) An inductive approach to the state space representation of multidimensional systems. **89h:93013**

— *see also* **Watanabe, Keigo, 89g:93104**

Unbehauen, H. (*with* Vakilzadeh, I.) Optimal synchronization of n identical double-integral plants with identical inputs but different initial conditions. **89k:93097**

Urbano, Ana *see* **Hernández, Vicente García, 89e:93111**

Ushakov, A. V. (*with* Dzhamanbaev, A. A.) A geometrical approach in the problem of finding a class of regulators that ensure zero parametric sensitivity. **89j:93038**

Vakilzadeh, I. *see* **Unbehauen, H., 89k:93097**

Varshanidze, L. Kh. On a problem on the numerical solution of a time-optimality problem for linear systems with variable structure. (Russian. English summary) (Not in MR)

Vassilaki, M. (*with* Hennet, J.-C.; Bitsoris, G.) Feedback control of linear discrete-time systems under state and control constraints. (Not in MR)

Verghese, George C. *see* **Özveren, Cüneyt M.; et al., 89g:49052** *and* **Karl, W. Clem, (Not in MR)**

V″lkova, Yu. S. *see* **Marchenko, Vladimir Matveevich, 89c:90125**

Volgin, L. N. Application of polynomial calculus to problems of the theory of automatic control. **89k:93055**

Wagner, Peter *see* **Jasinski, Heinrich, 89e:49032**

Wakayama, Takeshi (*with* Inaba, Hiroshi) Disturbance rejection of linear control systems defined over the real polynomial ring $\mathbf{R}[\lambda]$. **89k:93142**

Wang, Da Hai The uniformity of eigenstructure assignment capability. (Chinese. English summary) (Not in MR)

Wang, En Ping (*with* Yan, Wei Yong) On the strictly positive real lemma. (Chinese summary) **89a:93016**

Wang, Mao Ling (*with* Jan, Yih-Jena; Chang, Jung Yü) Analysis and parameter identification of time-delay linear systems via generalized orthogonal polynomials. **89d:93038**

Wang, Shêng Tê (*with* Kuo, Tê Shêng; Lin, Yu-Hwan; Hsü, Chên Fa; Chuang, Yao T'ang) Robust control design for linear systems with uncertain parameters. **89a:93028**

Wang, Shun Hsiang *see* **Ch'ên, Po Hsien, 89d:93057**

Wang, Xiao Jun A new geometric criterion for stability of linear control systems. (Chinese. English summary) **89e:93169**

Wang, Zhen Quan *see* **Xu, Ke Kang, 89m:93008**

Watanabe, Keigo (*with* Tzafestas, Spyros G.) Discrete-time forward-pass smoothers in distributed-sensor networks. **89g:93104**

Watanabe, Keiji Finite spectrum assignment of linear systems with a class of noncommensurate delays. **89k:93109**

Weinstein, Ehud *see* **Segal, Mordechai, 89d:93095**

Whitfield, A. H. (*with* Williams, N. G.) Integral least-squares techniques for frequency-domain model reduction. **89e:93032**

Wilde, Richard W. *see* **Yang, Fu Yu, 89i:93017**

Willems, J. C. Modelling, approximation and complexity of linear systems. **89c:93022**

— (*with* Heij, C.) Scattering theory and approximation of linear systems. **89c:93025**

— From time series to linear system. I. Finite-dimensional linear time invariant systems. **89b:93112**

— From time series to linear system. II. Exact modelling. **89b:93113**

— From time series to linear system. III. Approximate modelling. **89b:93114**

— *see also* **Nieuwenhuis, J. W., 89j:49009**

Williams, N. G. *see* **Whitfield, A. H., 89e:93032**

Willsky, Alan S. *see* **Özveren, Cüneyt M.; et al., 89g:49052**

Wilson, D. A. Convolution and Hankel operator norms for linear systems. **89k:93062**

van der Woude, J. W. Disturbance decoupling and output stabilization by measurement feedback: a combined approach. **89c:93060**

Wu, Chin Fu *see* **Chuang, Yao T'ang; et al., 89a:93040**

Wu, Guang Yu *see* **Zhang, Yu Ming^1**, (Not in MR)

Wu, I. Long *see* **Tsay, Shuh Chuan; et al., 89d:93024**

Wu, Jing Bo Some results on infinite-dimensional realization theory. **89d:93021**

Wyman, Bostwick F. *see* **Han, Jia-Yuan, (89f:00025)**

Xi, Yu Geng *see* **Xu, Xiao Ming, 89k:93098**

Xu, Ke Kang (*with* Wang, Zhen Quan) D-controllability and strong D-controllability and control of multiparameter and multiple time-scale singularly perturbed systems. **89m:93008**

— Block decoupling and stable block decoupling of linear systems. (Chinese. English summary) **89j:93020**

Xu, Xiao Ming (*with* Xi, Yu Geng) The synthesis of decentralized control systems with the most economical information structure. (Chinese. English summary) **89k:93098**

Yakubovich, V. A. Adaptive stabilization of continuous linear objects. **89m:93053**

Yamakita, M. *see* **Furuta, K.; et al., 89m:49052**

Yan, Wei Yong *see* **Wang, En Ping, 89a:93016**

Yang, Fu Yu (*with* Wilde, Richard W.) Observers for linear systems with unknown inputs. **89i:93017**

Yang, Tai Cheng *see* **Chen, Chieh-Li; et al., 89m:93031**

Yaz, Engin Feedback controllers for stochastic-parameter systems: relations among various stabilizability conditions. **89j:93136**

Yedavalli, Rama K. (*with* Kolla, S. R.) Stability analysis of linear time-varying systems. (Not in MR)

Yu, Wen Huan Necessary conditions on existence of optimal control for a class of distributed parameter systems—control in coefficients. II. **89g:49007**

Zang, Jun *see* **Hu, Shi Cai, 89e:93008**

Zhang, Fue En Design of PI and PDI compensators. (Chinese. English summary) **89h:93025**

Zhang, Yu Ming^1 (*with* Wu, Guang Yu) An exact recursive algorithm for computing the parameters of linear difference models of increasing orders. (Chinese. English summary) (Not in MR)

Zhao, Hou Jin A globally stable algorithm for MIMO self-tuning controllers. (Chinese) **89g:93083**

Zheng, Jian De (*with* Lü, Yong Zai) Novel aggregation algorithm for large-scale systems control. **89m:93006**

Zhou, Kemin (*with* Khargonekar, Pramod P.) Robust stabilization of linear systems with norm-bounded time-varying uncertainty. **89c:93061**

Zhu, Jian Min (*with* Lü, Yong Zai) Application of single-step method of block-pulse functions to the optimal control of linear distributed-parameter systems. **89k:93056**

Zinkus, Rimvidas Adaptive control of a linear dynamic object based on parallel information processing. (Russian. English and Lithuanian summaries) **89d:93063**

Zolezzi, T. *see* **Bartolini, G., 89g:93051**

Zwart, H. J. Equivalence between open-loop and closed-loop invariance for infinite-dimensional systems: a frequency domain approach. **89k:93118**

Items listed otherwise than by author

Conference:

Linear and Nonlinear Mathematical Control Theory ★ Conference on linear and nonlinear mathematical control theory. **89a:93002**

93C10 Nonlinear

Amman, Hans M. (*with* Jager, Henk) Constrained control algorithm for nonlinear control problems. **89h:93027**

Boothby, W. M. Global feedback linearizability of locally linearizable systems. **89d:93051**

Carmichael, N. (*with* Quinn, M. D.) Fixed-point methods in nonlinear control. **89d:93052**

Crouch, P. E. Graded vector spaces and applications to the approximation of nonlinear systems. **89j:93057**

— *see also* **Lamnabhi-Lagarrigue, F., 89m:93038**

Desoer, C. A. (*with* Kabuli, M. G.) Right factorization of a class of time-varying nonlinear systems. **89d:93053**

Doležal, Jaroslav On-line optimal control of nonlinear systems by singular perturbation techniques. (*see* **89g:00018**)

Elkin, V. I. Classification of affine controllable systems with a phase space of dimension $n < 4$. **89i:93061**

Filanovsky, I. M. *see* **Qiu, Shui Sheng; et al.**, (Not in MR)

Fliess, Michel Nonlinear control theory and differential algebra. **89j:93058**

Grizzle, Jessy W. (*with* Nijmeijer, Henk) On the infinite zeros of nonlinear discrete-time systems. (*see* **89b:93010**)

Han, Kuang Wei *see* **Tsay, Tain Sou, 89j:93060**

Holder, Morris E. (*with* Thomason, Virgil A.) Using time moments to determine system response. **89h:93028**

Isidori, A. (*with* Moog, Claude H.) On the nonlinear equivalent of the notion of transmission zeros. **89e:93121**

Jager, Henk *see* **Amman, Hans M., 89h:93027**

Kabuli, M. G. *see* **Desoer, C. A., 89d:93053**

Krasnosel'skiĭ, A. M. Conditions for the applicability of Fredholm theorems in the analysis of forced oscillations in nonlinear systems. (Russian. English summary) **89m:93037**

Lamnabhi-Lagarrigue, F. (*with* Crouch, P. E.) A formula for iterated derivatives along trajectories of nonlinear systems. **89m:93038**

Lozowicki, Adam On the optimization of control systems in meaning of certain class of input signals. (*see* **89a:94001**)

Martínez, Ernesto C. Hybrid connections and time-scales in nonlinear systems. (Not in MR)

Moog, Claude H. *see* **Isidori, A., 89e:93121**

Nijmeijer, Henk (*with* Respondek, Witold) Dynamic input-output decoupling of nonlinear control systems. **89j:93059**

— *see also* **Grizzle, Jessy W., (89b:93010)**

Ohtani, Yoshiharu Classifications of nonlinear control systems with one control. (Japanese. English summary) **89e:93122**

Qiu, Shui Sheng (*with* Filanovsky, I. M.; Stromsmoe, K. A.) On one combination of the harmonic balance method and perturbation techniques. (Not in MR)

Quinn, M. D. *see* **Carmichael, N., 89d:93052**

Respondek, Witold *see* **Nijmeijer, Henk, 89j:93059**

Sontag, Eduardo D. Finite-dimensional open-loop control generators for nonlinear systems. **89h:93029**

— Bilinear realizability is equivalent to existence of a singular affine differential i/o equation. **89m:93039**

Stromsmoe, K. A. *see* **Qiu, Shui Sheng; et al.**, (Not in MR)

Tarasenko, N. V. Two approaches to difference approximations of optimal control problems. (Russian) (*see* **89j:00018**)

Thomason, Virgil A. *see* **Holder, Morris E., 89h:93028**

Tsay, Tain Sou (*with* Han, Kuang Wei) Limit cycle analysis of nonlinear multivariable feedback control systems. **89j:93060**

Verma, Madanpal S. Coprime fractional representations and stability of nonlinear feedback systems. **89j:93061**

Xu, Mao Zeng Further results on solving nonlinear systems via block-pulse functions. (Chinese. English summary) (Not in MR)

Zhukov, V. P. Field methods for investigating nonlinear dynamic systems. II. **89i:93062**

Items with secondary classifications in 93C10

Abulesz, E.-M. (*with* Lyberatos, G.) Periodic impulse-forcing of nonlinear systems: a new method. **89e:34069**

Aeyels, Dirk Local and global stabilizability for nonlinear systems. **89d:93077**

Aĭsagaliev, S. A. Controllability of nonlinear control systems. (Russian. Kazakh summary) **89d:49041**

Arkun, Yaman *see* **Calvet, Jean-Paul**, (Not in MR)

Arutyunov, S. K. Design of nonlinear structurally stable control systems (an adaptive modeling method). (Russian) **89k:93084**

Avramenko, L. G. (*with* Bordyug, B. A.; Larin, V. B.) On weakly nonlinear measurable systems. (Russian) **89e:93023**

Bacciotti, Andrea The local stabilizability problem for nonlinear systems. **89d:93078**

Balachandran, Krishnan Controllability of a class of perturbed nonlinear systems. **89e:93015**

Balchen, Jens G. (*with* Lie, Bernt; Solberg, Ingar) Internal decoupling in nonlinear process control. (Not in MR)

Banks, S. P. (*with* Chanane, B.) A generalized frequency response for nonlinear systems. **89e:93034**

— Generalization of the Lyapunov equation to nonlinear systems. (Not in MR)

Baras, J. S. *see* **James, M. R., 89e:93026**

Barbu, Viorel A product formula approach to nonlinear optimal control problems. **89f:93023**

Bartolini, G. (*with* Zolezzi, T.) Asymptotic linearization of uncertain systems by variable structure control. **89a:93023**

Behtash, S. (*with* Sastry, S. Shankar) Stabilization of nonlinear systems with uncontrollable linearization. **89i:93086**

— (*with* Sastry, S. Shankar) Stabilization of nonlinear systems with uncontrollable linearization. **89d:93072**

Billings, S. A. *see* **Leontaritis, I. J., 89b:93100; Korenberg, M. J.; et al., 89e:93184** *and* **Chen, Sheng^2, 89k:93208**

Birk, J. (*with* Zeitz, M.) Extended Luenberger observer for nonlinear multivariable systems. (Not in MR)

Bitmead, Robert R. *see* **Mareels, I. M. Y., 89e:93142**

Böcker, J. (*with* Hartmann, I.; Zwanzig, Ch.) ★ Nichtlineare und adaptive Regelungssysteme. (German) [Nonlinear and adaptive control systems] **89h:93001**

Bogatyrev, A. V. (*with* Pyatnitskiĭ, E. S.) Construction of piecewise-quadratic Lyapunov functions for nonlinear control systems. (Russian. English summary) **89e:93172**

Bordley, Robert F. When present value equals the change in the Hamiltonian. (Not in MR)

Bordyug, B. A. *see* **Avramenko, L. G.; et al., 89e:93023**

de Brucq, D. (*with* Panzarella, L.; Rakotopara, D.) Observation d'un système non linéaire. (English summary) [Observation of a nonlinear system] (Not in MR)

Brukhtiĭ, A. V. An optimality condition of Goh type for extremals that degenerate at a point. (Russian) **89b:49023**

Bukenbaev, K. B. On the absolute stability of automatic control systems with essential nonlinearities. (Russian) (*see* **89g:00008**)

Bukov, V. N. (*with* Chudinova, V. G.) Optimization of the motion of a nonlinear object on the basis of a forecasting model. (Not in MR)

Burev, D. D. Analytic solution of a general nonlinear optimal control problem. (Russian) **89g:49046**

— A discrete analytic solution of a smooth nonlinear problem of optimal control. (Russian) **89i:93046**

Burgmeier, P. *see* **Plokhov, A. G., 89k:93019**

Byrnes, Christopher I. (*with* Isidori, A.) Heuristics for nonlinear control. **89i:93087**

— (*with* Isidori, A.) Local stabilization of minimum-phase nonlinear systems. **89g:93071**

Calvet, Jean-Paul (*with* Arkun, Yaman) Feedforward and feedback linearization of nonlinear systems with disturbances. (Not in MR)

Chanane, B. *see* **Banks, S. P., 89e:93034**

Charlet, B. (*with* Levine, Jean; Marino, Riccardo) Two sufficient conditions for dynamic feedback linearization of nonlinear systems. **89e:93039**

Ch'ên, Po Hsien *see* **Hsiao, Fêng Hsiang, 89b:93081; Wang, Wen June, 89e:93010** *and* **Chiang, Chiang-Cheng, 89e:93164**

Chen, Sheng^2 (*with* Billings, S. A.) Recursive maximum likelihood identification of a nonlinear output-affine model. **89k:93208**

Chernyshenko, S. V. *see* **Chernyshenko, V. M., (89f:00011)**

Chernyshenko, V. M. (*with* Chernyshenko, S. V.) Necessary conditions for optimality in the method of stepwise linearization in the control of nonlinear systems. (Russian) (*see* **89f:00011**)

Chiang, Chiang-Cheng (*with* Ch'ên, Po Hsien) Robust stabilization against nonlinear time-varying uncertainties. **89e:93164**

Chiang, Hsiao-Dong (*with* Hirsch, Morris W.; Wu, Felix F.) Stability regions of nonlinear autonomous dynamical systems. **89c:58064**
Chin, Philip S. M. Stability of nonlinear systems via the intrinsic method. (Not in MR)
Chou, D. S. *see* **Sworder, D. D., 89a:93035**
Chudinova, V. G. *see* **Bukov, V. N.**, (Not in MR)
Chukwu, E. N. The time optimal control theory of nonlinear systems of neutral type. **89f:34115**
Collingwood, P. C. *see* **Crouch, P. E., 89d:93019**
Conte, Giuseppe (*with* Di Benedetto, M. D.; Isidori, A.; Perdon, A.-M.) An input-output characterization of the structure at infinity for a nonlinear system. **89c:93029**
— (*with* Moog, Claude H.; Perdon, A.-M.) Un théorème sur la représentation entrée-sortie d'un système non linéaire. (English summary) [A theorem on the input-output representation of a nonlinear system] **89j:93017**
Corless, M. J. *see* **Walcott, B. L.; et al., 89b:93027** *and* **Zeitz, M., 89b:93028**
Crouch, P. E. (*with* Collingwood, P. C.) The observation space and realizations of finite Volterra series. **89d:93019**
Dannon, Vitali C. (*with* Kartsatos, Athanassios G.) The controllability of a quasilinear functional-differential system. **89e:93017**
Dauphin-Tanguy, G. *see* **Rotella, F., 89k:93068**
Deng, Zi Li (*with* Wang, Jian Guo) Adaptive extended Kalman filtering for nonlinear systems. (Chinese. English summary) **89g:93097**
Desoer, C. A. (*with* Kabuli, M. G.) Stabilization and robustness of nonlinear unity-feedback system: factorization approach. **89a:93042**
Desrochers, Alan A. *see* **Diaz, Hernando**, (Not in MR)
Diaz, Hernando (*with* Desrochers, Alan A.) Modeling of nonlinear discrete-time systems from input-output data. (Not in MR)
Di Benedetto, M. D. *see* **Conte, Giuseppe; et al., 89c:93029**
Dickinson, Bradley W. *see* **Schwartz, Carla A., 89c:93017**
Drăgan, Vasile Model reduction for exponential stability of systems of nonlinear differential equations coupled with nonlinear difference equations with small step-size. **89d:93022**
Emel′yanov, S. V. (*with* Korovin, S. K.; Nikitin, Sergei Vyacheslavovich) Controllability of nonlinear systems. Two-dimensional systems. (Russian) **89c:93009**
— (*with* Korovin, S. K.; Nikitin, Sergei Vyacheslavovich) Controllability of nonlinear systems and systems on a foliation. **89g:93003**
Falkner, A. H. Iterative technique in the identification of a nonlinear system. (Not in MR)
Fliess, Michel Esquisses pour une théorie des systèmes non linéaires en temps discret. (English summary) [Sketch of a theory of nonlinear systems in discrete time] **89e:93057**
Galperin, E. A. (*with* Zheng, Quan) Nonlinear observation via global optimization methods: measure theory approach. **89k:93023**
Gao, Wei Bing (*with* Wu, Dong Nan) Global linearization of nonlinear systems. **89k:93042**
— *see also* **Xia, Xiao Hua, 89j:93014**
Gauthier, J.-P. *see* **Hammouri, H., 89i:93021**
Gray, J. O. *see* **Valsamis, D.; et al., 89d:93089**
Grizzle, Jessy W. *see* **Moog, Claude H., 89k:93058**
Gusev, M. I. (*with* Kurzhanskiĭ, A. B.) Inverse problems in the dynamics of control systems. (Russian) **89m:93009**
Gusev, S. V. Linear stabilization of nonlinear systems program motion. **89k:93164**
Ha, In Joong The standard decomposed system and noninteracting feedback control of nonlinear systems. **89k:93091**
Hamada, Kazuyasu (*with* Suzuki, Masayuki) Robust adaptive algorithm with nonlinear decay term. **89h:93033**
Hammer, Jacob The concept of rationality and stabilization of nonlinear systems. **89e:93155**
— Assignment of dynamics for nonlinear recursive feedback systems. **89m:93028**
Hammouri, H. (*with* Gauthier, J.-P.) Bilinearization up to output injection. **89i:93021**
Hano, Kazuhiro (*with* Hirohata, Tetsuya) Controllability by two vector fields. **89f:93007**
Hartmann, I. *see* **Böcker, J.; et al., 89h:93001**
Hashizume, Hidekuni *see* **Kawabata, Hiroaki; et al., 89k:93167**
Hermes, Henry Distributions having bases which generate finite-dimensional Lie algebras. **89d:58010**
Hikita, H. Servomechanisms based on sliding mode control. (Not in MR)
Hirohata, Tetsuya *see* **Hano, Kazuhiro, 89f:93007**
Hirsch, Morris W. *see* **Chiang, Hsiao-Dong; et al., 89c:58064**
(Hirschorn, Ronald M.) *see* **Kumpera, A., 89c:49029**
Hopkins, William E., Jr. (*with* Wong, Wing Shing) Implementation issues in product formulas for nonlinear filtering. **89c:93072**
Hsiao, Fêng Hsiang (*with* Ch'ên, Po Hsien) LQG optimal and robust controller design for nonlinear stochastic systems: multivariable case. **89b:93081**
Huang, Garng *see* **Zaborszky, John; et al., 89a:93037**
Huillet, T. (*with* Monin, André-Paul-Valentin; Salut, G.) Lie algebraic canonical representations in nonlinear control systems. **89d:93018**
— (*with* Monin, André-Paul-Valentin; Salut, G.) Représentations exponentielles en commande non linéaire. (English summary) [Exponential representations in nonlinear control] **89g:93029**
Hunt, L. R. (*with* Su, Ren Jeng) Approximation of nonlinear systems having outputs. **89d:93032**
Inagaki, Yoshio *see* **Kawabata, Hiroaki; et al., 89k:93167**
Irvine, Douglas H. Efficient solution of nonlinear models expressed in S-system canonical form. **89h:92018**
Isidori, A. *see* **Conte, Giuseppe; et al., 89c:93029**; **Byrnes, Christopher I., 89g:93071** *and* **89i:93087**
Ito, Kazuho *see* **Kunimatsu, Noboru, 89k:93169**
Jakubczyk, B. Hamiltonian realizations of nonlinear systems. **89k:93037**
James, M. R. (*with* Baras, J. S.) An observer design for nonlinear control systems. **89e:93026**
Javorský, Petr An algorithm for optimal control of nonlinear systems. (*see* **89g:00018**)
Jayasuriya, Suhada (*with* Kee, Chang-Doo) Circle-type criterion for synthesis of robust tracking controllers. **89g:93043**
Jumarie, Guy Simple general method to analyse the moment stability and sensitivity of nonlinear stochastic systems with or without delay. **89d:93112**
Kabuli, M. G. *see* **Desoer, C. A., 89a:93042**
Kalinin, A. I. An algorithm for the asymptotic solution of a quasilinear time-optimality problem. (Russian. English summary) **89d:93040**
Kalouptsidis, N. *see* **Tsinias, J., 89b:93019**
Kamachkin, A. M. Qualitative analysis of a nonlinear control system with double hysteresis. (Russian) **89k:34136**
Kartsatos, Athanassios G. *see* **Dannon, Vitali C., 89e:93017**
Kaszkurewicz, E. (*with* Resende, P.) On the absolute stability of linearly interconnected nonlinear systems. **89b:93080**
Kawabata, Hiroaki (*with* Hashizume, Hidekuni; Inagaki, Yoshio; Shirao, Yoshiaki; Nagahara, Toshikuni; Kido, Masao) A method of optimal control in nonlinear systems. **89k:93167**
Kee, Chang-Doo *see* **Jayasuriya, Suhada, 89g:93043**
Khorasani, K. An optimal feedback regulation of nonlinear singularly perturbed systems via slow manifold approach. **89e:93093**
Kido, Masao *see* **Kawabata, Hiroaki; et al., 89k:93167**
Kitamori, Toshiyuki *see* **Shin, Seiichi**, (Not in MR)
Kokotović, P. V. *see* **Marino, Riccardo, 89d:93033**
Korenberg, M. J. (*with* Billings, S. A.; Liu, Yan Ping; McIlroy, P. J.) Orthogonal parameter estimation algorithm for nonlinear stochastic systems. **89e:93184**
Korovin, S. K. *see* **Emel′yanov, S. V.; et al., 89c:93009** *and* **89g:93003**
Kotta, Yu. R. The ensuring of autonomy of a nonlinear dynamical system with discrete time. (Not in MR)
Kryazhimskiĭ, A. V. (*with* Osipov, Yu. S.) Inverse problems in dynamics and control models. (Russian) **89m:93010**
Kumpera, A. Remarks on a paper: "Global controllability of nonlinear systems" [SIAM J. Control Optimization **14** (1976), no. 4, 700–711; MR **58** #15374] by R. M. Hirschorn. **89c:49029**
Kunimatsu, Noboru (*with* Ito, Kazuho) Stabilization of a nonlinear distributed parameter vibratory system. **89k:93169**
Kurzhanskiĭ, A. B. *see* **Gusev, M. I., 89m:93009**
Lane, Stephen H. (*with* Stengel, Robert F.) Flight control design using nonlinear inverse dynamics. (Not in MR)
Larin, V. B. *see* **Avramenko, L. G.; et al., 89e:93023**
Lee, T. N. (*with* Radovic, U. L.) Decentralized stabilization of nonlinear continuous time delay systems. **89k:34131**
Leontaritis, I. J. (*with* Billings, S. A.) Prediction error estimator for nonlinear stochastic systems. **89b:93100**
Leung, Tin-Chi *see* **Zaborszky, John; et al., 89a:93037**
Levine, Jean *see* **Charlet, B.; et al., 89e:93039**
Lie, Bernt *see* **Balchen, Jens G.; et al.**, (Not in MR)
Liu, Yan Ping *see* **Korenberg, M. J.; et al., 89e:93184**
Lü, Yong Zai *see* **Zhu, Jian Min, 89d:93005**
Lyberatos, G. *see* **Abulesz, E.-M., 89e:34069**
Ma, Wan Biao Global stability and exponential stability of nonautonomous motion of nonlinear automatic control systems with time-varying lags. (Chinese) **89f:34118**
Mareels, I. M. Y. (*with* Bitmead, Robert R.) Nonlinear dynamics in adaptive control: periodic and chaotic stabilization. II. Analysis. **89e:93142**
Marino, Riccardo (*with* Respondek, Witold; van der Schaft, A. J.) Almost disturbance decoupling for multivariable nonlinear systems: a sufficient condition. **89k:93093**
— (*with* Kokotović, P. V.) A geometric approach to nonlinear singularly perturbed control systems. **89d:93033**
— *see also* **Charlet, B.; et al., 89e:93039**
Martynenko, V. V. Solution of a time-optimality problem for a class of nonlinear dynamical systems. **89g:93045**
Mayne, D. Q. *see* **Smith, Stephen Bevis, 89m:49058**
McIlroy, P. J. *see* **Korenberg, M. J.; et al., 89e:93184**
Medrano-Cerda, G. A. (*with* Pritchard, A. J.) Parameter estimation algorithms and robust identifiability. **89k:93066**
Monaco, Salvatore (*with* Normand-Cyrot, Dorothée) A Lie exponential formula for the nonlinear discrete time functional expansions. **89d:93123**
Monin, André-Paul-Valentin *see* **Huillet, T.; et al., 89d:93018** *and* **89g:93029**
Moog, Claude H. (*with* Grizzle, Jessy W.) Découplage non linéaire vu de l'algèbre linéaire. (English summary) [Nonlinear decoupling from a linear algebraic viewpoint] **89k:93058**
— Nonlinear decoupling and structure at infinity. **89m:93035**
— *see also* **Conte, Giuseppe; et al., 89j:93017**
Moore, John Barratt (*with* Ryall, Tom; Xia, Lige) Central tendency adaptive pole assignment. (Not in MR)
Nagahara, Toshikuni *see* **Kawabata, Hiroaki; et al., 89k:93167**
Nikitin, Sergei Vyacheslavovich *see* **Emel′yanov, S. V.; et al., 89c:93009** *and* **89g:93003**
Normand-Cyrot, Dorothée *see* **Monaco, Salvatore, 89d:93123**
O'Reilly, John *see* **Sharkey, Paul M., 89k:93059**
Osipov, Yu. S. Control problems under insufficient information. **89k:93153**
— *see also* **Kryazhimskiĭ, A. V., 89m:93010**
Owens, D. H. *see* **Valsamis, D.; et al., 89d:93089**
Pakshin, P. V. *see* **Zelentsovskiĭ, A. L., 89d:93113**
Panasyuk, A. I. Algebraic operations that are consistent with the dynamics of continuous nonlinear control systems. **89e:93052**
Panzarella, L. *see* **de Brucq, D.; et al.**, (Not in MR)
Parodi, Franco Some nonlinear solvable universes of continuous-time devices. (Italian. English summary) **89b:93013**
Penev, G. D. Adaptive tracking of the programmed motion of nonlinear nonstationary systems. (Russian) **89a:93033**
Perdon, A.-M. *see* **Conte, Giuseppe; et al., 89c:93029** *and* **89j:93017**
Petrov, V. P. *see* **Vyazovik, A. P., 89e:93028**
Plokhov, A. G. (*with* Burgmeier, P.) An approach of approximating the ε-null-controllability set of nonlinear nonautonomous systems. (Russian summary) **89k:93019**
Pritchard, A. J. *see* **Medrano-Cerda, G. A., 89k:93066**
Pyatnitskiĭ, E. S. *see* **Bogatyrev, A. V., 89e:93172**
Radovic, U. L. *see* **Lee, T. N., 89k:34131**

Rakotopara, D. *see* **de Brucq, D.; et al.**, (Not in MR)

Ramarajan, S. Stability criterion for nonlinear systems—integral restrictions. (Not in MR)

Rapoport, L. B. Sign-definiteness of a quadratic form under quadratic constraints and the absolute stability of nonlinear control systems. **89j:93086**

Resende, P. *see* **Kaszkurewicz, E., 89b:93080**

Respondek, Witold *see* **Marino, Riccardo; et al., 89k:93093**

Ronge, Peter Locally optimal feedback strategy for nonlinear systems with uncertain parameters. (Not in MR)

Rotella, F. (*with* Dauphin-Tanguy, G.) Nonlinear systems: identification and optimal control. **89k:93068**

Rugh, Wilson J. *see* **Wang, Jianliang, 89k:93044** *and* (Not in MR)

Ryall, Tom *see* **Moore, John Barratt; et al.**, (Not in MR)

Ryan, E. P. Adaptive stabilization of a class of uncertain nonlinear systems: a differential inclusion approach. **89b:93070**

Saberi, A. (*with* Sannuti, P.) Global stabilization with almost disturbance decoupling of a class of uncertain nonlinear systems. **89b:93089**

Salut, G. *see* **Huillet, T.; et al., 89d:93018** *and* **89g:93029**

Sannuti, P. *see* **Saberi, A., 89b:93089**

Sastry, S. Shankar *see* **Behtash, S., 89d:93072** *and* **89i:93086**

Savageau, Michael A. Introduction to S-systems and the underlying power-law formalism. (*see* **89d:00007**)

van der Schaft, A. J. On realization of nonlinear systems described by higher-order differential equations. **89b:93032a**

— Correction: "On realization of nonlinear systems described by higher-order differential equations". **89b:93032b**

— *see also* **Marino, Riccardo; et al., 89k:93093**

Schättler, Heinz On the local structure of time-optimal bang-bang trajectories in $\mathbf{R}^3$. **89a:49024**

Schwartz, Carla A. (*with* Dickinson, Bradley W.) Some finite-dimensional realization theory for nonlinear systems. **89c:93017**

Seborg, Dale E. *see* **Wong, Stephen K. P., 89j:34112**

de la Sen, Manuel A robust indirect discrete adaptive-control approach based on passivity results for nonlinear systems. **89e:93075**

Sharkey, Paul M. (*with* O'Reilly, John) Composite control of nonlinear singularly perturbed systems: a geometric approach. **89k:93059**

Shi, Wei *see* **Sun, Xi, 89e:93144**

Shin, Seiichi (*with* Kitamori, Toshiyuki) Continuous-time model reference adaptive control for an unknown nonlinear system. (Not in MR)

Shirao, Yoshiaki *see* **Kawabata, Hiroaki; et al., 89k:93167**

Sira-Ramirez, Hebertt J. Algebraic condition for observability of nonlinear analytic systems. **89j:93013**

— Sliding regimes on slow manifolds of systems with fast actuators. **89j:93047**

Smith, Stephen Bevis (*with* Mayne, D. Q.) Exact penalty algorithm for optimal control problems with control and terminal constraints. **89m:49058**

Sokolov, V. I. Synthesis of a decomposing control in nonlinear dynamical systems. **89g:93030**

Solberg, Ingar *see* **Balchen, Jens G.; et al.**, (Not in MR)

Song, Jian (*with* Yu, Jing Yuan) ★ Population system control. **89f:92050**

Sontag, Eduardo D. Controllability is harder to decide than accessibility. **89j:93008**

Sorribas, Albert Alternative S-system representations for reversible biochemical pathways. (*see* **89d:00007**)

Spong, Mark W. Robust stabilization for a class of nonlinear systems. **89h:93046**

Sragovich, V. G. New problems in the adaptive control of linear equations. **89a:93034**

Srichander, R. *see* **Viswanadham, N., 89b:90097**

Stengel, Robert F. *see* **Lane, Stephen H.**, (Not in MR)

Su, Ren Jeng *see* **Hunt, L. R., 89d:93032**

Sun, Xi (*with* Shi, Wei) Discrete time adaptive control of MIMO systems with dead-zone nonlinearity. (Chinese. English summary) **89e:93144**

Suzuki, Masayuki *see* **Hamada, Kazuyasu, 89h:93033**

Sworder, D. D. (*with* Chou, D. S.) Passive adaptation in control system design. **89a:93035**

Terdik, G. Generalized Hermite polynomials and estimation of kernels for discrete I/O Wiener models. (Russian summary) **89d:93097**

Tsinias, J. (*with* Kalouptsidis, N.) Controllable cascade connections of nonlinear systems. **89b:93019**

Valsamis, D. (*with* Owens, D. H.; Gray, J. O.) Stability and performance bounds for the linearisation-based analysis and design of multivariable nonlinear systems. **89d:93089**

Venkatesh, Y. V. Converse Hölder inequality and the L_p-instability of nonlinear time-varying feedback systems. **89d:93076**

Viswanadham, N. (*with* Srichander, R.) Fault detection using unknown-input observers. **89b:90097**

Vũ Ngọc Phát Controllability of nonlinear discrete systems without differentiability assumption. **89b:93024**

Vyazovik, A. P. (*with* Petrov, V. P.) A nonlinear control-observation problem. (Russian) **89e:93028**

Walcott, B. L. (*with* Corless, M. J.; Żak, S. H.) Comparative study of nonlinear state-observation techniques. **89b:93027**

— *see also* **Zeitz, M., 89b:93028**

Wang, Guang Xiong (*with* Yang, Qing) Analysis of self-sustained oscillations in digital control systems—the discrete describing function method and its application. (Chinese. English summary) **89i:34089**

Wang, Hong^4 A pole-assignment self-tuning robust control for a class of nonlinear systems. (Chinese. English summary) **89i:93055**

Wang, Jian Guo *see* **Deng, Zi Li, 89g:93097**

Wang, Jianliang (*with* Rugh, Wilson J.) Linearized model matching for single-input nonlinear systems. (Not in MR)

— (*with* Rugh, Wilson J.) On the pseudo-linearization problem for nonlinear systems. **89k:93044**

Wang, Wen June (*with* Ch'ên, Po Hsien) Stability of large-scale systems with saturating actuators. **89e:93010**

Wong, K. H. A control parameterization algorithm for nonlinear time-lag optimal control problems. **89k:34138**

Wong, Stephen K. P. (*with* Seborg, Dale E.) Control strategy for single-input single-output nonlinear systems with time delays. **89j:34112**

Wong, Wing Shing *see* **Hopkins, William E., Jr., 89c:93072**

Wu, Dong Nan *see* **Gao, Wei Bing, 89k:93042**

Wu, Felix F. *see* **Chiang, Hsiao-Dong; et al., 89c:58064**

Xia, Lige *see* **Moore, John Barratt; et al.**, (Not in MR)

Xia, Xiao Hua (*with* Gao, Wei Bing) On exponential observers for nonlinear systems. **89j:93014**

Yakovlev, O. S. Investigation of feedback laws in multicomponent control systems. (Russian) **89d:93088**

Yang, Qing *see* **Wang, Guang Xiong, 89i:34089**

Yaz, Engin On the optimal state estimation of a class of discrete-time nonlinear systems. **89e:93191**

— Design of observers for nonlinear time-varying systems. **89e:93029**

— Stabilizing compensator design for discrete-time nonlinear stochastic systems with incomplete state information. **89e:93161**

Yu, Jing Yuan *see* **Song, Jian, 89f:92050**

Zaborszky, John (*with* Huang, Garng; Zheng, Baohua; Leung, Tin-Chi) On the phase portrait of a class of large nonlinear dynamic systems such as the power system. **89a:93037**

Żak, S. H. *see* **Walcott, B. L.; et al., 89b:93027** *and* **Zeitz, M., 89b:93028**

Zeitz, M. Comments on: "Comparative study of nonlinear state-observation techniques" [Internat. J. Control **45** (1987), no. 6, 2109–2132] by B. L. Walcott, M. J. Corless and S. H. Żak. **89b:93028**

— *see also* **Birk, J.**, (Not in MR)

Zelentsovskiĭ, A. L. (*with* Pakshin, P. V.) Absolute stochastic $2p$-stability of nonlinear automatic control systems. **89d:93113**

Zhang, Rong Xin A filtering method for nonlinear systems. (Chinese) (Not in MR)

Zhao, Yi *see* **Zhou, Hong Xing, 89j:93001**

Zheng, Baohua *see* **Zaborszky, John; et al., 89a:93037**

Zheng, Hui Heng Stability of nonlinear control systems with time lag. **89d:34133**

Zheng, Quan *see* **Galperin, E. A., 89k:93023**

Zhou, Hong Xing (*with* Zhao, Yi) Controllability theory for nonlinear systems. (Chinese. English summary) **89j:93001**

Zhu, Jian Min (*with* Lü, Yong Zai) Hierarchical strategy for nonlinear optimal control systems via STWS approach. **89d:93005**

Zolezzi, T. *see* **Bartolini, G., 89a:93023**

Zwanzig, Ch. *see* **Böcker, J.; et al., 89h:93001**

Items listed otherwise than by author

Conference:

Linear and Nonlinear Mathematical Control Theory ★ Conference on linear and nonlinear mathematical control theory. **89a:93002**

93C15 Systems governed by ordinary differential equations

Ginailo, P. I. On the equivalence of two optimal control problems. (Ukrainian. Russian summary) (Not in MR)

Grigor'eva, O. V. (*with* Skimel', V. N.) Investigation of the limit behavior of the solutions of a system of differential equations by the comparison method. (Russian) **89e:93123**

Grujić, Ljubomir T. Algebraic conditions for absolute tracking control of continuous-time Lurie systems. (*see* **89f:00025**)

Haddad, A. H. *see* **Heck, B. S., 89k:93115**

Heck, B. S. (*with* Haddad, A. H.) Singular perturbation analysis of linear systems with scalar quantized control. **89k:93115**

Hsü, Tê Hsiu (*with* Lin, Hsien Hsiang) Optimal control with responses and control force constraints. (Chinese summary) **89j:93062**

Lin, Hsien Hsiang *see* **Hsü, Tê Hsiu, 89j:93062**

Mardanov, M. Dzh. Necessary conditions for second-order optimality in problems with delays in the controls. (Not in MR)

Pashaev, A. B. The property of a sequence of control functions of being a Cauchy sequence in the sense of the convergence of corresponding trajectories. (Russian. English and Azerbaijani summaries) **89i:93063**

Skimel', V. N. *see* **Grigor'eva, O. V., 89e:93123**

Items with secondary classifications in 93C15

Astrovskiĭ, A. I. A method for solving an observation-estimation problem in linear nonstationary systems. **89g:93007**

Bacciotti, Andrea The local stabilizability problem for nonlinear systems. **89d:93078**

Balachandran, Krishnan Controllability of a class of perturbed nonlinear systems. **89e:93015**

Balder, Erik J. On infinite-horizon lower closure results for optimal control. **89j:49004**

Bartolini, G. (*with* Zolezzi, T.) Asymptotic linearization of uncertain systems by variable structure control. **89a:93023**

Behtash, S. (*with* Sastry, S. Shankar) Stabilization of nonlinear systems with uncontrollable linearization. **89d:93072**

Boothby, W. M. (*with* Dayawansa, Wijesuriya P.) Some global aspects of the feedback linearization problem. **89b:93035**

Bordley, Robert F. When present value equals the change in the Hamiltonian. (Not in MR)

Boschková, Monika Self-tuning controls of linear stochastic systems in presence of drift. **89k:93128**

Brukhtiĭ, A. V. An optimality condition of Goh type for extremals that degenerate at a point. (Russian) **89b:49023**

Bukhalev, V. A. (*with* Efimov, E. V.; Kazakov, I. E.) Complex processing of information from gauges and indicators in dynamical systems with conditionally Markov structure. **89c:94016**

Burev, D. D. A discrete analytic solution of a smooth nonlinear problem of optimal control. (Russian) **89i:93046**

Buttazzo, Giuseppe Relaxation problems in control theory. **89m:49054**

Čelikovský, Sergej On the continuous dependence of trajectories of bilinear systems on controls and its applications. **89j:49035**

— On the Lipschitzean dependence of trajectories of multi-input time dependent bilinear systems on controls. (Russian summary) **89h:49033**

Chen, Ye-Hwa Design of robust controllers for uncertain dynamical systems. **89e:93154**

Chentsov, A. G. *see* **Tarasova, S. I., 89i:49020**

Chou, Yi Shyong *see* **Liu, Ch'ing T'ien, 89f:93010**

Cobb, J. Daniel Fundamental properties of the manifold of singular and regular linear systems. **89d:93001**

Davis, J. H. *see* **Hirschorn, Ronald M., 89k:93092**

Dayawansa, Wijesuriya P. *see* **Boothby, W. M., 89b:93035**

Deĭch, V. G. Controllers with optimal structure in systems with lumped and distributed parameters. **89j:93045**

Dochev, Docho T. (*with* Stoyanova, T. G.) On a multicriteria problem in differential-difference systems. (Russian. English and Bulgarian summaries) **89d:34124**

Dubovitskiĭ, A. Ya. (*with* Dubovitskiĭ, V. A.) The principle of the maximum in regular optimal control problems in which the ends of the phase trajectory lie on the boundary of the phase constraint. **89c:49013**

— (*with* Dubovitskiĭ, V. A.) Conditions for the pointwise nontriviality of the maximum principle in a regular problem of optimal control. (Russian. English and Georgian summaries) **89i:49014**

Dubovitskiĭ, V. A. *see* **Dubovitskiĭ, A. Ya., 89c:49013** *and* **89i:49014**

Efimov, E. V. *see* **Bukhalev, V. A.; et al., 89c:94016**

Emel'yanov, S. V. (*with* Korovin, S. K.; Nikitin, Sergei Vyacheslavovich) Two-dimensional bilinear systems: classification of singularities and criteria for controllability. (Russian) **89f:93006**

— (*with* Korovin, S. K.; Nikitin, Sergei Vyacheslavovich) Controllability of nonlinear systems and systems on a foliation. **89g:93003**

Fliess, Michel Sur quelques problèmes concernant les systèmes linéaires généralisés. (English summary) [On some problems concerning generalized linear systems] **89g:93052**

Fuller, J. David Introduction of a new process with learning about installation and operation. (Not in MR)

Gao, Wei Bing (*with* Wu, Dong Nan) Global linearization of nonlinear systems. **89k:93042**

Gichev, T. R. Singular perturbations in an optimal control problem with fixed ends. (Russian. English and Bulgarian summaries) **89g:93036**

Hashimoto, Takayuki *see* **Ojika, Takeo; et al., 89f:70042**

Hirschorn, Ronald M. (*with* Davis, J. H.) Global output tracking for nonlinear systems. **89k:93092**

Hoàng Xuân Phú Zur Lösung des linearisierten Knickstab-Problems mit beschränkter Ausbiegung. (English and Russian summaries) [On the solution of the linearized buckling-rod problem with restricted bending] **89a:73037**

Huang, Garng *see* **Zaborszky, John; et al., 89a:93037**

Hunt, L. R. (*with* Su, Ren Jeng) Approximation of nonlinear systems having outputs. **89d:93032**

Imanov, M. G. A linear time-optimality problem with a phase constraint. (Russian. English and Azerbaijani summaries) **89b:93065**

Irvine, Douglas H. Efficient solution of nonlinear models expressed in *S*-system canonical form. **89h:92018**

Izmaĭlov, R. N. Transient processes in linear stationary systems. **89e:93092**

Izumoto, Yoshiro *see* **Ojika, Takeo; et al., 89f:70042**

Jacobson, Clas A. (*with* Nett, Carl N.) Linear state-space systems in infinite-dimensional space: the role and characterization of joint stabilizability/detectability. **89e:93127**

Jurdjevic, V. (*with* Kupka, I. A. K.) Linear systems with degenerate quadratic costs. **89d:49018**

Kalinin, A. I. An algorithm for the asymptotic solution of a quasilinear time-optimality problem. (Russian. English summary) **89d:93040**

Kalouptsidis, N. *see* **Tsinias, J., 89b:93019**

Kawski, Matthias A necessary condition for local controllability. **89a:49038**

Kazakov, I. E. *see* **Bukhalev, V. A.; et al., 89c:94016**

Khrustalev, M. M. An accurate description of feasibility sets and conditions for the global optimality of dynamical systems. I. Estimates for and an accurate description of feasibility sets and controllability sets. **89m:49072**

— An accurate description of feasibility sets and conditions for the global optimality of dynamic systems. II. Conditions for global optimality. **89m:49073**

Kirsanov, B. V. Decomposition in problems of the investigation of an integrated system of active control, dominant control. (Russian) **89h:49026**

Kitamori, Toshiyuki *see* **Shin, Seiichi**, (Not in MR)

Kokotović, P. V. *see* **Marino, Riccardo**, **89d:93033**

Kolmanovskiĭ, V. B. (*with* Myshkis, A. D.; Nosov, V. R.) The current theory of equations with aftereffect from positions of its application. (Russian) (*see* **89j:00030**)

Korobov, V. I. (*with* Sklyar, G. M.; Krutin', V. I.) Solution of an optimal design problem by means of a controllability function. (Russian) **89b:49063**

Korovin, S. K. *see* **Emel'yanov, S. V.; et al., 89f:93006** *and* **89g:93003**

Kozerenko, K. V. On the number of readings. (Russian) **89d:93014**

Kozheko, L. G. (*with* Loshkareva, I. V.) A problem of the correction of a guided process described by a nonstationary differential equation. (Russian) **89g:49017**

Krutin', V. I. *see* **Korobov, V. I.; et al., 89b:49063**

Kupka, I. A. K. *see* **Jurdjevic, V., 89d:49018**

Lamnabhi-Lagarrigue, F. Singular optimal control problems: on the order of a singular arc. **89b:49044**

Leizarowitz, Arie On almost sure optimization for stochastic control systems. **89a:93058**

Leung, Tin-Chi *see* **Zaborszky, John; et al., 89a:93037**

Lidov, M. L. An algorithm for the estimation of parameters of motion in problems with nonmodelable acceleration. **89j:93029**

Liu, Ch'ing T'ien (*with* Chou, Yi Shyong) Successive parameter estimation of continuous dynamic systems. **89f:93010**

Loewen, Philip D. (*with* Vinter, R. B.) Free time optimal control problems with unilateral state constraints. **89f:49023**

Loshkareva, I. V. *see* **Kozheko, L. G., 89g:49017**

Lubochkin, A. V. Optimization of a transient process by the minimum of control energy. (Russian) (Not in MR)

Manuĭlov, Yu. S. A logical-analytic method for the design of controllers in the form of feedback. (Russian. English summary) **89e:93097**

Mardanov, M. Dzh. Second-order necessary conditions in optimal control problems with delays. (Russian. English and Azerbaijani summaries) **89c:34089**

Marino, Riccardo (*with* Kokotović, P. V.) A geometric approach to nonlinear singularly perturbed control systems. **89d:93033**

Mårtensson, Bengt Adaptive stabilization of multivariable linear systems. **89d:93061**

— Adaptive stabilization without high-gain. **89i:93092**

Mayne, D. Q. *see* **Smith, Stephen Bevis, 89m:49058**

Medrano-Cerda, G. A. (*with* Pritchard, A. J.) Parameter estimation algorithms and robust identifiability. **89k:93066**

Myshkis, A. D. *see* **Kolmanovskiĭ, V. B.; et al.**, (**89j:00030**)

Nakazumi, Akira *see* **Ojika, Takeo; et al., 89f:70042**

Neshcheret, V. I. (*with* Ruzhnikov, G. M.; Zabolonova, N. A.) Control problems with local functionals. (Russian) **89d:49019**

Nett, Carl N. *see* **Jacobson, Clas A., 89e:93127**

Nikitin, Sergei Vyacheslavovich *see* **Emel'yanov, S. V.; et al., 89f:93006** *and* **89g:93003**

Nordström, Niklas Parameter convergence and stability in continuous-time indirect adaptive control. (Not in MR)

Nosov, V. R. *see* **Kolmanovskiĭ, V. B.; et al.**, (**89j:00030**)

Ojika, Takeo (*with* Hashimoto, Takayuki; Izumoto, Yoshiro; Nakazumi, Akira) Bang-bang control of rotating rigid body suspended by wire. (Japanese summary) **89f:70042**

Panasyuk, A. I. Algebraic operations that are consistent with the dynamics of continuous nonlinear control systems. **89e:93052**

Petersen, Ian R. Stabilization of an uncertain linear system in which uncertain parameters enter into the input matrix. **89m:93069**

Pritchard, A. J. *see* **Medrano-Cerda, G. A., 89k:93066**

Roxin, Emilio O. Reachable sets, limit sets and holding sets in control systems. **89a:49040**

Ruzhnikov, G. M. *see* **Neshcheret, V. I.; et al., 89d:49019**

Saberi, A. (*with* Sannuti, P.) Global stabilization with almost disturbance decoupling of a class of uncertain nonlinear systems. **89b:93089**

Sannuti, P. *see* **Saberi, A., 89b:93089**

Sastry, S. Shankar *see* **Behtash, S., 89d:93072**

Seidman, Thomas I. How violent are fast controls? **89a:93012**

Seierstad, Atle Sufficient conditions in free final time optimal control problems. **89b:49028**

Setterlund, Roy H. New insights into minimum-variance reduced-order filters. (Not in MR)

Shin, Seiichi (*with* Kitamori, Toshiyuki) Continuous-time model reference adaptive control for an unknown nonlinear system. (Not in MR)

Shubladze, A. M. Methods for calculating proportional-integral-differential control laws that are optimal with respect to the degree of stability. II. (Russian. English summary) **89d:93046**

Sklyar, G. M. *see* **Korobov, V. I.; et al., 89b:49063**

Smith, Stephen Bevis (*with* Mayne, D. Q.) Exact penalty algorithm for optimal control problems with control and terminal constraints. **89m:49058**

Sorribas, Albert Alternative *S*-system representations for reversible biochemical pathways. (*see* **89d:00007**)

Stoyanova, T. G. *see* **Dochev, Docho T., 89d:34124**

Su, Ren Jeng *see* **Hunt, L. R., 89d:93032**

Sussmann, H. J. Recent developments in the regularity theory of optimal trajectories. **89i:49019**

Taldykin, A. T. (*with* Ulanova, T. A.) Realization of a given trajectory of motion and of a pencil of trajectories. **89e:34105**

Tarasova, S. I. (*with* Chentsov, A. G.) Minimization of maximal deviation from a system of convex sets. (Russian. English summary) **89i:49020**

Tsinias, J. (*with* Kalouptsidis, N.) Controllable cascade connections of nonlinear systems. **89b:93019**

Ulanova, T. A. *see* **Taldykin, A. T., 89e:34105**

Uzakov, G. T. Some criteria for the stabilization of programmed motion. (Russian) (*see* **89a:00016**)

Van Dooren, R. Numerical study of the controlled van der Pol oscillator in Chebyshev series. (French summary) **89a:49033**

Vinter, R. B. *see* **Loewen, Philip D., 89f:49023**

Wilde, Richard W. *see* **Yang, Fu Yu, 89i:93017**

Wu, Dong Nan *see* **Gao, Wei Bing, 89k:93042**

Yakovlev, O. S. Investigation of feedback laws in multicomponent control systems. (Russian) **89d:93088**

Yang, Fu Yu (*with* Wilde, Richard W.) Observers for linear systems with unknown inputs. **89i:93017**

Zabczyk, J. Some comments on stabilizability. **89f:93035**

Zabolonova, N. A. *see* **Neshcheret, V. I.; et al., 89d:49019**

Zaborszky, John (*with* Huang, Garng; Zheng, Baohua; Leung, Tin-Chi) On the phase portrait of a class of large nonlinear dynamic systems such as the power system. **89a:93037**

Zeidan, V. (*with* Zezza, P.) Necessary conditions for optimal control problems: conjugate points. **89h:49015**

Zezza, P. *see* **Zeidan, V., 89h:49015**

Zheng, Baohua *see* **Zaborszky, John; et al., 89a:93037**

Zolezzi, T. *see* **Bartolini, G., 89a:93023**

93C20 Systems governed by partial differential equations

Adali, S. (*with* Bruch, J. C., Jr.; Sadek, Ibrahim S.; Sloss, J. M.) Feedback control of a vibrating beam by stiffening action. **89e:93124**

— *see also* **Sloss, J. M.; et al., 89m:93041**

Adzhubeĭ, L. T. (*with* Danilov, V. Ya.; Kudin, G. I.) Some problems in the control and estimation of oscillatory distributed systems with a small parameter. (Russian) (Not in MR)

Bendsøe, Martin P. On optimal design of actively controlled distributed parameter structures. (*see* **89b:93006**)

Bruch, J. C., Jr. *see* **Adali, S.; et al., 89e:93124** *and* **Sloss, J. M.; et al., 89m:93041**
Brykalov, S. A. Equilibrium existence for some heating control systems. (Russian summary) **89m:93040**
Buttazzo, Giuseppe An optimization problem for thin insulating layers around a conducting medium. (*see* **89b:93006**)
Byun, Seung-Wan *see* **Lee, Chong-Won**, (Not in MR)
Danilov, V. Ya. *see* **Adzhubeĭ, L. T.; et al.**, (Not in MR)
Ding, Zhong Hai *see* **Feng, De Xing, 89e:93126**
Donchev, Tzanko D. Constructed and relaxed strategies in distributed parameter systems. (Bulgarian summary) **89e:93125**
El Bagdouri, M. Commande en temps optimal de l'équation non linéaire de la chaleur. (English summary) [Time-optimal control of the nonlinear heat equation] **89f:93022**
Feng, De Xing (*with* Ding, Zhong Hai) Distributed control approximation of pointwise control for hyperbolic systems. **89e:93126**
Fujii, Nobuo *see* **Goto, Yoshito; et al., 89i:93064**
Goto, Yoshito (*with* Fujii, Nobuo; Muramatsu, Yasuyuki) Second order necessary optimality conditions for domain optimization problem with a Neumann problem. **89i:93064**
Kalouptsidis, N. *see* **Tsinias, J., 89g:93053**
Kudin, G. I. *see* **Adzhubeĭ, L. T.; et al.**, (Not in MR)
Lee, Chong-Won (*with* Byun, Seung-Wan) Optimal complex modal-space control of rotating disc vibrations. (Not in MR)
Lobok, A. P. *see* **Nakonechnyĭ, A. G.**, (Not in MR)
Lyashko, S. I. Differentiability of a regularized performance index for the pulse-point control of pseudoparabolic systems. **89h:93030**
MacDonald, N. (*with* Marshall, J. E.; Walton, K.) Direct stability boundary method for distributed systems with discrete delay. (Not in MR)
Marshall, J. E. *see* **MacDonald, N.; et al.**, (Not in MR)
Muramatsu, Yasuyuki *see* **Goto, Yoshito; et al., 89i:93064**
Nakonechnyĭ, A. G. (*with* Lobok, A. P.) Impulse control in systems with distributed parameters. (Russian) (Not in MR)
Rubio, J. E. (*with* Wilson, D. A.) Theory of moments and the control of heat flow. (Not in MR)
Sadek, Ibrahim S. *see* **Adali, S.; et al. 89e:93124** *and* **Sloss, J. M.; et al., 89m:93041**
Sklyarov, Yu. S. Optimal control in systems with distributed parameters of hyperbolic type. (Russian) (*see* **89c:00012**)
Sloss, J. M. (*with* Adali, S.; Sadek, Ibrahim S.; Bruch, J. C., Jr.) Boundary feedback control of a vibrating beam subject to a displacement constraint. **89m:93041**
— *see also* **Adali, S.; et al., 89e:93124**
Tiihonen, Timo (*with* Zolésio, J.-P.) Gradient with respect to nodes for nonisoparametric finite elements. (*see* **89b:93006**)
Tsinias, J. (*with* Kalouptsidis, N.) Prolongations and stability analysis via Lyapunov functions of dynamical polysystems. **89g:93053**
Walton, K. *see* **MacDonald, N.; et al.**, (Not in MR)
White, L. W. Control of beams and plates with small damping: location of actuators. **89i:93065**
Wilson, D. A. *see* **Rubio, J. E.**, (Not in MR)
Zolésio, J.-P. *see* **Tiihonen, Timo**, (**89b:93006**)

Items with secondary classifications in 93C20

Abergel, Frédéric (*with* Temam, Roger) Duality methods for nonqualified distributed control problems. (*see* **89j:00028**)
Aguilera, N. E. (*with* Caffarelli, Luis A.; Spruck, Joel) An optimization problem in heat conduction. **89h:49016**
Ahmed, N. U. *see* **Biswas, Saroj K., 89m:70067**
Al-Janabi, A. Samee A. R. The Pontryagin maximum principle for distributed parameter systems. **89e:49015**
Aniculăesei, G. Thickness optimization problem. **89k:49005**
Aoki, Takashi *see* **Ohta, Hirobumi; et al.**, (Not in MR)
Arumugam, G. (*with* Pironneau, O.) Towards a multipurpose optimal shape design computer code. (*see* **89b:93006**)
Avdonin, S. A. (*with* Gorshkova, O. Ya.) Controllability of multidimensional parabolic systems with delay. (Russian) **89e:93014**
— (*with* Gorshkova, O. Ya.) On the controllability of parabolic systems with delay in the highest derivative. (Russian) **89i:93007**
Balakrishnan, A. V. Control of flexible flight structures. **89j:93089**
Balas, Mark J. Finite-dimensional controllers for linear distributed parameter systems: exponential stability using residual mode filters. **89e:93171**
Banks, H. T. (*with* Rosen, I. G.) Computational methods for the identification of spatially varying stiffness and damping in beams. **89c:93034**
— (*with* Ito, Kazufumi) A theoretical framework for convergence and continuous dependence of estimates in inverse problems for distributed parameter systems. (Not in MR)
— (*with* Ito, Kazufumi) A unified framework for approximation in inverse problems for distributed parameter systems. **89d:93034**
— (*with* Gates, S. S.; Rosen, I. G.; Wang, Y.) The identification of a distributed parameter model for a flexible structure. **89f:73049**
Belbas, S. A. (*with* Mayergoyz, I. D.) Applications of fixed-point methods to discrete variational and quasivariational inequalities. **89a:49008**
Belfekih, A. *see* **El Jaï, A., 89b:49037**
Berrahmoune, Larbi Stabilisation d'une classe de systèmes distribués hyperboliques. (English summary) [Stabilization of a class of hyperbolic distributed systems] **89e:93163**
Biswas, Saroj K. (*with* Ahmed, N. U.) Optimal control of large space structures governed by a coupled system of ordinary and partial differential equations. **89m:70067**
Bogomolova, I. A. (*with* Glasko, V. B.; Kal′ner, V. D.; Kulik, N. I.; Kondorskaya, E. E.; Tikhonov, A. N.; Yurasov, S. A.) Inverse problems associated with the control of diffusional and thermal processes. **89d:80007**
Bonnans, J. Frédéric (*with* Casas Rentería, Eduardo) Contrôle de systèmes elliptiques semilinéaires comportant des contraintes sur l'état. (English summary) [Control of semilinear elliptic systems with state constraints] **89d:49022**
Bontsema, J. (*with* Curtain, R. F.; Schumacher, J. M.) Robust control of flexible structures: a case study. **89k:93161**
Burke, Shawn E. (*with* Hubbard, James E., Jr.) Distributed actuator control design for flexible beams. (Not in MR)
Caffarelli, Luis A. *see* **Aguilera, N. E.; et al., 89h:49016**
Cannarsa, Piermarco (*with* Da Prato, G.; Zolésio, J.-P.) Dynamical shape control of the heat equation. **89m:49047**
Carotenuto, L. (*with* Muraca, P.; Raiconi, G.) Optimal location of a moving sensor for the estimation of a distributed-parameter process. **89d:93116**
Casas Rentería, Eduardo (*with* Fernández, Luis A.) Optimal control of quasilinear multistate elliptic systems. (*see* **89c:00031**)
— *see also* **Bonnans, J. Frédéric, 89d:49022**
Chang, Kun Soo *see* **Lee, Kwang Soon**, (Not in MR)
Chebotarēv, A. Yu. Optimal control in a flow problem for the equations of an ideal fluid. (Russian) **89c:49006**
Chen, Ya Ling WSP systems and identification. (Chinese. English summary) **89e:93061**
Chou, D. S. *see* **Sworder, D. D., 89a:93035**
Curtain, R. F. *see* **Bontsema, J.; et al., 89k:93161**
Dahleh, Mohammed *see* **Peirce, Anthony P.; et al., 89h:93041**
Da Prato, G. (*with* Zolésio, J.-P.) An optimal control problem for a parabolic equation in noncylindrical domains. **89d:49003**
— *see also* **Cannarsa, Piermarco; et al., 89m:49047**
Dargeĭko, M. M. (*with* Loginov, A. A.; Samoĭlenko, Yu. I.) Control of rapid processes in continuous conducting media. **89k:93146**
Datko, Richard Not all feedback stabilized hyperbolic systems are robust with respect to small time delays in their feedbacks. **89c:93057**
Deĭch, V. G. Controllers with optimal structure in systems with lumped and distributed parameters. **89j:93045**
Denkowski, Z. (*with* Migorski, S.) Control problems for parabolic and hyperbolic equations via the theory of G and Γ convergence. **89b:49005**
Diordiev, N. D. (*with* Nozhak, G. V.) Closed sampled-data systems with distributed parameters. (Russian) (*see* **89c:00009**)
Dryja, M. *see* **Udwadia, F. E.; et al., 89m:73028**
Duncan, T. E. A solvable stochastic control problem in spheres. **89f:93046**
Dzhorbenadze, A. N. An optimal control problem for systems that can be described by oscillation equations of elasticity theory. (Russian. English and Georgian summaries) **89e:49017**
El Alami, Noureddine Algorithmes pour l'implémentation de la commande optimale avec critère quadratique des systèmes bilinéaires. (English summary) [Algorithms for the implementation of optimal quadratic cost control of bilinear systems] (*see* **89c:00031**)
El Jaï, A. (*with* Belfekih, A.) Sur le choix de la répartition spatiale du contrôle dans les systèmes distribués. (English summary) [On the optimal spatial distribution of the control in distributed systems] **89b:49037**
— (*with* Pritchard, A. J.) ★ Sensors and controls in the analysis of distributed systems. **89b:93002**
Fang, Chong Zhi *see* **Tao, Luo Wen**, (Not in MR)
Fattorini, H. O. Optimal control of nonlinear systems: convergence of suboptimal controls. I. **89b:93066**
Feng, De Xing *see* **Zhang, Bing Yu, 89j:49020**
Fernández, Luis A. *see* **Casas Rentería, Eduardo**, (**89c:00031**)
Fliess, Michel Sur quelques problèmes concernant les systèmes linéaires généralisés. (English summary) [On some problems concerning generalized linear systems] **89g:93052**
Foiaş, Ciprian (*with* Tannenbaum, Allen) Optimal sensitivity theory for multivariate distributed plants. **89f:93012**
Fujii, Nobuo Existence of an optimal domain in a domain optimization problem. **89j:49012**
Gates, S. S. *see* **Banks, H. T.; et al., 89f:73049**
Gibson, James S. (*with* Rosen, I. G.) Approximation of discrete-time LQG compensators for distributed systems with boundary input and unbounded measurement. **89e:93090**
Gilliam, David (*with* Mair, Bernard; Martin, Clyde Franklin) Observability and determination of surface temperature. I. **89i:93014**
Glasko, V. B. *see* **Bogomolova, I. A.; et al., 89d:80007**
Golichev, I. I. Solution of some optimal control problems by the method of iterations. (Russian) **89m:49007**
— Solution of some optimal control problems by the iterative method. (Russian) **89h:49003**
Gorshkova, O. Ya. *see* **Avdonin, S. A., 89e:93014** *and* **89i:93007**
Graham, John W. (*with* Sarwal, S. N.) A computational model for a class of distributed parameter system. **89a:35049**
Grecksch, W. ε-optimale Steuerung einer linearen parabolischen Ito-Gleichung. [ε-optimal control of a linear parabolic Itô equation] **89b:93115**
Gvilava, S. G. The maximum principle for a third-order partial differential equation of hyperbolic type. (Russian. English summary) **89c:49015**
Han, Song Ho Constructions of feedback control based on stochastic maximum principle. (Korean. English summary) (Not in MR)
Hara, Kei (*with* Yamamoto, Tetsuhiko; Ougita, Kazuyuki) Parameter identification of distributed parameter systems using spline functions. **89a:93054**
Haraux, A. Contrôlabilité exacte d'une membrane rectangulaire au moyen d'une fonctionnelle analytique localisée. (English summary) [Exact controllability of a rectangular membrane by means of a localized analytic functional] **89e:49030**
He, Xiang Wei *see* **Ye, Xiao Ye, 89b:93078**
Ho, Lop Fat Exact controllability of second order hyperbolic systems with control in the Dirichlet boundary conditions. **89b:93021**
Horváth, M. Vibrating strings with free ends. **89e:49031**
Hsieh, Chê Kuang Some results on direct reduced order modeling of linear distributed parameter systems. (Chinese summary) (Not in MR)
Hubbard, James E., Jr. *see* **Burke, Shawn E.**, (Not in MR)
Hwang, C. C. (*with* Pan, Ching Tsai) Comparison of finite element methods for the diffusion problem. **89d:49030**
Iskra, K. K. *see* **Minyuk, S. A., 89e:93020**
Ito, Kazufumi *see* **Banks, H. T., 89d:93034** *and* (Not in MR)
Ito, Kazuho *see* **Kunimatsu, Noboru, 89k:93169**

Jiong, Jiang *see* **Ning, Jiang**, (Not in MR)

Kal'ner, V. D. *see* **Bogomolova, I. A.; et al., 89d:80007**

Kaminskas, Vytautas (*with* Sakalauskas, Eligijus) An algorithm for the identification of linear distributed-parameters systems. (Not in MR)

Kapustyan, V. E. *see* **Zaĭtsev, V. G.**, (Not in MR)

Kazemi-Dehkordi, M. A. A method of successive approximations for optimal control of distributed parameter systems. **89g:49039**

Kenmochi, Nobuyuki (*with* Primicerio, Mario) One-dimensional heat conduction with a class of automatic heat-source controls. **89m:49008**

Kobayashi, Toshihiro Model reference adaptive control for spectral systems. **89i:93074**

— (*with* Luo, Zheng Hua) Dynamic shape control for a flexible beam. **89e:93094**

— Remarks on discrete-time servomechanism design for parabolic distributed parameter systems. **89e:93095**

— Finite-dimensional adaptive control for infinite-dimensional systems. **89j:93070**

Koda, Masato Sensitivity analysis of a descriptor distributed parameter system and its application to shape optimization. **89m:93025**

— Sensitivity analysis of descriptor distributed parameter systems. **89i:93038**

Komkov, V. Sensitivity techniques for systems with distributed parameters. **89b:93052**

Komornik, V. On the control of strongly nonlinear systems. I. **89d:49028**

Kondorskaya, E. E. *see* **Bogomolova, I. A.; et al., 89d:80007**

Korbicz, Józef (*with* Zgurovskiĭ, M. Z.; Novikov, A. N.) Suboptimal sensors location in the state estimation problem for stochastic nonlinear distributed parameter systems. (Not in MR)

Kowalewski, Adam Boundary control of hyperbolic system with boundary condition involving a time delay. (*see* **89c:00031**)

Krasovskiĭ, A. A. Optimal prediction time in automatic control systems. **89g:49009**

Kulik, N. I. *see* **Bogomolova, I. A.; et al., 89d:80007**

Kumagai, Sadatoshi Modelling and analysis of distributed systems: a net theoretic approach. **89i:93005**

Kunimatsu, Noboru (*with* Ito, Kazuho) Stabilization of a nonlinear distributed parameter vibratory system. **89k:93169**

Lagnese, J. Note on boundary stabilization of wave equations. **89k:93170**

Lasiecka, Irena Exponential stabilization of the wave equations with Dirichlet boundary conditions. **89a:93044**

— Exponential local stability of first order strictly hyperbolic systems with nonlinear perturbations on the boundary. **89d:49046**

Lasry, Jean-Michel EDP et anticipations rationnelles (à partir du modèle de J. Scheinkman et L. Weiss). [PDE and rational expectations (based on the model of J. Scheinkman and L. Weiss)] **89e:90063**

Lee, Kwang Soon (*with* Chang, Kun Soo) Discrete-time modelling of distributed parameter systems for state estimator design. (Not in MR)

Leonov, G. A. (*with* Smirnova, V. B.) Stability in the large of integro-differential equations of nondirect control systems. **89c:45024**

Lions, J.-L. Pareto control of distributed systems. An introduction. **89b:49009**

— ★ Contrôlabilité exacte, perturbations et stabilisation de systèmes distribués. Tome 2. (French) [Exact controllability, perturbations and stabilization of distributed systems. Vol. 2] **89k:93017**

— Controlabilité exacte et homogénéisation. I. (English summary) [Exact controllability and homogenization. I] **89e:93018**

— Exact controllability, stabilization and perturbations for distributed systems. **89e:93019**

Littman, Walter (*with* Markus, Lawrence) Exact boundary controllability of a hybrid system of elasticity. **89j:93007**

Loginov, A. A. *see* **Dargeĭko, M. M.; et al., 89k:93146**

Lü, Yong Zai *see* **Zhu, Jian Min, 89d:93005; 89f:93003** *and* **89k:93056**

Luo, Zheng Hua *see* **Kobayashi, Toshihiro, 89e:93094**

Luse, D. W. A Nyquist-type stability test for multivariable distributed systems. **89d:93083**

Mair, Bernard *see* **Gilliam, David; et al., 89i:93014**

Maksimov, V. I. Positional modeling of unbounded controls for nonlinear distributed systems with dissipation. **89f:93015**

Malebranche, H. Simultaneous state and parameter estimation and location of sensors for distributed systems. **89i:93110**

Mansimov, K. B. On the optimality of boundary controls in a system with distributed parameters. (Russian. English and Georgian summaries) **89k:49015**

Mantel, F. *see* **Udwadia, F. E.; et al., 89m:73028**

Markus, Lawrence *see* **Littman, Walter, 89j:93007**

Martin, Clyde Franklin *see* **Gilliam, David; et al., 89i:93014**

Matsumoto, Hiroyuki[1] *see* **Murotsu, Yoshisada; et al., 89j:73083**

Matviĭchuk, K. S. Technical stability of parametrically excitable distributed processes. (Russian) **89d:35099**

Mayergoyz, I. D. *see* **Belbas, S. A., 89a:49008**

Mazumdar, Tapas Minimization, over selected convex sets, of a noncoercive cost functional for hyperbolic systems. (Portuguese summary) **89d:49023**

Meladze, G. V. An optimal control problem for first-order quasilinear differential equations on a plane with nonlocal boundary conditions. (Russian) (*see* **89j:00030**)

Michel, A. N. *see* **Skaar, Steven B.; et al., 89a:93043**

Migorski, S. *see* **Denkowski, Z., 89b:49005**

Miller, Richard K. *see* **Skaar, Steven B.; et al., 89a:93043**

Minyuk, S. A. (*with* Iskra, K. K.) Controllability and observability of first-order linear partial differential systems. (Russian. English summary) **89e:93020**

Miyamoto, S. Topological properties of observability for a system of parabolic type. **89k:93026**

Moskalenko, A. I. Integral transformation of a parabolic optimal problem with a linear concentrated control. (Russian) **89g:93021**

Mukherjee, Rathindra Nath[2] Minimum time control for a minimum cost control problem in Banach space. **89d:49043**

Muraca, P. *see* **Carotenuto, L.; et al., 89d:93116**

Murotsu, Yoshisada (*with* Okubo, Hiroshi; Matsumoto, Hiroyuki[1]; Okawa, Yoshiyuki; Terui, Fuyuto) Tendon control system for flexible space structures. **89j:73083**

— (*with* Okubo, Hiroshi; Okawa, Yoshiyuki; Terui, Fuyuto) An approach to optimum design of output feedback control system for flexible space structures. **89k:49024**

Nakano, Kazushi (*with* Sagara, Setsuo) Optimal scanning measurement problem for a stochastic distributed-parameter system. (Not in MR)

Nambu, T. (*with* Rostamian, R.; Seidman, Thomas I.) Feedback stabilization of a marginally stable heat conduction problem. **89c:93058**

Neittaanmäki, Pekka (*with* Tiba, D.) On the approximation of the boundary control in two-phase Stefan-type problems. (Russian and Polish summaries) **89j:49025**

Nikiforuk, P. N. *see* **Ohta, Hirobumi; et al.**, (Not in MR)

Ning, Jiang (*with* Jiong, Jiang) Parameter or nonparameter identification of distributed parameter systems via block-pulse functions. (Not in MR)

Noldus, E. Finite-dimensional approximate observers for a class of transportation systems. (Not in MR)

Nour Eldin, H. A. (*with* Stelter, R.) A fast algorithm for the simulation of gas flow in long pipelines. (Russian summary) (Not in MR)

Novikov, A. N. *see* **Korbicz, Józef; et al.**, (Not in MR)

Novozhenov, M. M. Necessary conditions in the problem of the optimization of a parabolic system. (Russian) (*see* **89f:35006**)

Nozhak, G. V. *see* **Diordiev, N. D.**, (**89c:00009**)

Ohta, Hirobumi (*with* Aoki, Takashi; Nikiforuk, P. N.) Spillover prevention and control of flexible structures using modal filters. (Not in MR)

Okawa, Yoshiyuki *see* **Murotsu, Yoshisada; et al., 89j:73083** *and* **89k:49024**

Okubo, Hiroshi *see* **Murotsu, Yoshisada; et al., 89j:73083** *and* **89k:49024**

Omatu, Sigeru Optimal estimation theory for distributed parameter systems. **89f:93040**

Oshchepkov, S. P. (*with* Sholokhovich, F. A.) A sufficient condition for epsilon-controllability. (Russian) **89h:93010**

Ougita, Kazuyuki *see* **Hara, Kei; et al., 89a:93054**

Pan, Ching Tsai *see* **Hwang, C. C., 89d:49030**

Parmaste, I. L. *see* **Zgurovskiĭ, M. Z.; et al.**, (Not in MR)

Pasynkov, V. N. A direct scheme for solving an optimal synthesis problem for a singularly perturbed parabolic equation. (Russian. English summary) **89e:93101**

Peirce, Anthony P. (*with* Dahleh, Mohammed; Rabitz, Herschel) Optimal control of quantum-mechanical systems: existence, numerical approximation, and applications. **89h:93041**

Pironneau, O. *see* **Arumugam, G.**, (**89b:93006**)

Prasada Rao, Ganti *see* **Unbehauen, H., 89b:93050**

Primicerio, Mario *see* **Kenmochi, Nobuyuki, 89m:49008**

Pritchard, A. J. *see* **El Jaï, A., 89b:93002**

(Pritchard, Catrin) *see* **El Jaï, A., 89b:93002**

(Pritchard, Rhian) *see* **El Jaï, A., 89b:93002**

Rabitz, Herschel *see* **Peirce, Anthony P.; et al., 89h:93041**

Rafajłowicz, Ewaryst Sequential identification algorithm and controller choice for a certain class of distributed systems. **89b:93109**

— Distributed parameter systems analysis by tracking stationary points of their states. **89d:35101**

— Time-domain optimization of input signals for distributed-parameter systems identification. **89k:93067**

Raiconi, G. *see* **Carotenuto, L.; et al., 89d:93116**

Raitums, U. On the construction of formal extensions of optimal control problems for elliptic equations. (Russian) **89k:49009**

Razgulin, A. V. Approximation of the control problem for a nonlinear equation of Schrödinger type. **89k:65076**

Rebarber, Richard Spectral assignability for distributed parameter systems with unbounded scalar control. **89m:93042**

Rivera Rodríguez, Pedro Humberto On the optimal control of non-well-posed linear evolution systems. **89j:49031**

Rosen, I. G. *see* **Banks, H. T., 89c:93034; Gibson, James S., 89e:93090** *and* **Banks, H. T.; et al., 89f:73049**

Rostamian, R. *see* **Nambu, T.; et al., 89c:93058**

Rubio, J. E. *see* **Wilson, D. A.**, (Not in MR)

Sadek, Ibrahim S. Necessary and sufficient conditions for the optimal control of distributed parameter systems subject to integral constraints. **89g:49032**

— A constructive method for the distributed control of thin plates. **89j:49017**

Sadovin, N. S. A method of descent with respect to strong variations in a nonlinear problem of heat control. (Russian. English summary) **89g:49042**

Sagara, Setsuo *see* **Nakano, Kazushi**, (Not in MR)

Sakalauskas, Eligijus *see* **Kaminskas, Vytautas**, (Not in MR)

Samoĭlenko, Yu. I. Problem of microcontrol in continuum. **89k:93148**

— *see also* **Dargeĭko, M. M.; et al., 89k:93146**

Sarwal, S. N. *see* **Graham, John W., 89a:35049**

Schumacher, J. M. *see* **Bontsema, J.; et al., 89k:93161**

Seidman, Thomas I. *see* **Nambu, T.; et al., 89c:93058**

Selin, A. N. *see* **Zgurovskiĭ, M. Z.; et al.**, (Not in MR)

Shaĭkhet, L. E. Optimal control of some hyperbolic and stochastic integral equations. (Russian) **89a:93060**

Shanidze, Z. G. A problem of automatic control. (Russian. English and Georgian summaries) **89j:35089**

Shayakhmetova, A. Periodic modes in a system of relay control of the mean temperature of a body. (Russian) **89d:80020**

Sholokhovich, F. A. *see* **Oshchepkov, S. P., 89h:93010**

Skaar, Steven B. (*with* Michel, A. N.; Miller, Richard K.) Stability of viscoelastic control systems. **89a:93043**

Smirnova, V. B. *see* **Leonov, G. A., 89c:45024**

Sokołowski, Jan Sensitivity analysis of control constrained optimal control problems for distributed parameter systems. **89c:49017**

— Shape sensitivity analysis of boundary optimal control problems for parabolic systems. **89i:93040**

Soner, H. M. On the Hamilton-Jacobi-Bellman equations in Banach spaces. **89g:49038**

Spruck, Joel *see* **Aguilera, N. E.; et al., 89h:49016**

Stelter, R. *see* **Nour Eldin, H. A.**, (Not in MR)

Sworder, D. D. (*with* Chou, D. S.) Passive adaptation in control system design. **89a:93035**

Tagiev, R. K. A problem of the optimal control of the coefficients of a parabolic equation. (Russian) **89b:49006**

— Discretization and regularization of an optimal control problem for a hyperbolic equation. (Russian) **89g:49044**

Tahraoui, R. Quelques remarques sur le contrôle des valeurs propres. [Some remarks on the control of eigenvalues] **89h:49004**

Tannenbaum, Allen *see* **Foiaş, Ciprian, 89f:93012**

Tao, Luo Wen (*with* Fang, Chong Zhi) Observers for a class of nonlinear distributed parameter systems. (Chinese. English summary) (Not in MR)

Tartar, L. The appearance of oscillations in optimization problems. **89b:49007**

Temam, Roger *see* **Abergel, Frédéric,** (**89j:00028**)

Terui, Fuyuto *see* **Murotsu, Yoshisada; et al., 89j:73083** *and* **89k:49024**

Tiba, D. *see* **Neittaanmäki, Pekka, 89j:49025**

Tikhonov, A. N. *see* **Bogomolova, I. A.; et al., 89d:80007**

Triggiani, R. Exact controllability for wave equation with Neumann boundary control. **89g:93006**

— Exact boundary controllability on $L_2(\Omega) \times H^{-1}(\Omega)$ of the wave equation with Dirichlet boundary control acting on a portion of the boundary $\partial\Omega$, and related problems. **89i:93011**

Tsintsadze, Z. A. Necessary conditions for extremality in some smooth-convex problems. (Russian. English and Georgian summaries) **89k:90133**

Tsonkov, Stoyan M. Control of objects with distributed parameters in a class of systems with variable structure. (Russian. English summary) **89k:93096**

Udwadia, F. E. (*with* Mantel, F.; Dryja, M.) On the optimal design of structures subjected to periodic base excitations. **89m:73028**

Unbehauen, H. (*with* Prasada Rao, Ganti) ★ Identification of continuous systems. **89b:93050**

Volkov, N. P. Optimal control of sources in some neutron transport processes. (Russian) **89d:93069**

Vutsan, Ya. P. The linearized minimum principle for a class of optimal control problems with mixed systems of differential equations. (Russian) (Not in MR)

Wang, Xia Chao *see* **Yang, Xue Shi,** (Not in MR)

Wang, Y. *see* **Banks, H. T.; et al., 89f:73049**

Weck, N. Null controllability and exact controllability for parabolic equations. **89a:49041**

Werner, K.-D. Boundary value controllability and observability problems for the wave and heat equation. **89e:49035**

Wilson, D. A. (*with* Rubio, J. E.) The theory of moments and the boundary controllability of the diffusion equation. (Not in MR)

Yamamoto, Tetsuhiko *see* **Hara, Kei; et al., 89a:93054**

Yang, Xue Shi (*with* Wang, Xia Chao) A numerical analysis of dynamic responses for transpiration control. (Chinese. English summary) (Not in MR)

Ye, Xiao Ye (*with* He, Xiang Wei) Feedback control for the attitude control system of an elastic space vehicle. (Chinese. English summary) **89b:93078**

Yu, Wen Huan Parameter identification for a class of parabolic systems. (Chinese) **89e:93068**

Yurasov, S. A. *see* **Bogomolova, I. A.; et al., 89d:80007**

Zaitsev, V. G. (*with* Kapustyan, V. E.) Application of the method of characteristics for constructing optimal controls in the one-phase Stefan problem. (Not in MR)

Zgurovskii, M. Z. (*with* Selin, A. N.; Parmaste, I. L.) Identification of the parameters of a process of the propagation of a gas-like admixture in the atmosphere. (Russian) (Not in MR)

— *see also* **Korbicz, Józef; et al.,** (Not in MR)

Zhang, Bing Yu (*with* Feng, De Xing) Optimal control of a system governed by a parabolic equation under domain perturbation. (Chinese. English summary) **89j:49020**

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93C22 Systems governed by integral equations

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Hoffmann, Armin Pointwise optimality criteria for optimal control problems governed by integral state relations. I. **89d:93054**

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Items with secondary classifications in 93C22

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93C25 Systems in abstract spaces

Barbu, Viorel A product formula approach to nonlinear optimal control problems. **89f:93023**

Chatterjee, J. *see* **Mukherjee, Rathindra Nath**[2]**, 89e:93128**

Curtain, R. F. *see* **Glover, Keith; et al., 89i:93067**

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Hara, Shinji *see* **Yamamoto, Yutaka, 89m:93043**

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— Some results on linear quadratic periodic control without detectability. (*see* **89j:00028**)
Destuynder, Philippe Une approche du contrôle de la propagation des fissures en dynamique des structures. (English summary) [An approach to crack propagation control in structural dynamics] **89k:73059**
El Alami, Jamila *see* **El Alami, Noureddine**, (**89c:00031**)
El Alami, Noureddine (*with* El Alami, Jamila) Algorithme de commande pour les systèmes énergétiques "presque bilinéaires" distribués (SPB) conductifs, convectifs, radiatifs. (English summary) [Control algorithm for conductive, convective, radiative "almost bilinear" distributed energy systems] (*see* **89c:00031**)
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Glover, Keith *see* **Curtain, R. F.**, **89d:93075** *and* **Zwart, H. J.; et al.**, (Not in MR)
Gorelov, Yu. I. *see* **Vasil'ev, V. I.; et al.**, **89m:93045**
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Jetto, L. *see* **Germani, A.; et al.**, **89c:93071** *and* **89j:93117**
Kobayashi, Toshihiro Input-output representations of spectral systems and adaptive controls. **89d:93060**
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Kovalevskiĭ, A. A. Averaging of variable variational problems. (Russian. English summary) **89m:49023**
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Liu, Ming Yang *see* **Zhao, Yi**, **89m:49070**
Matveev, A. S. On the abstract theory of the optimal control of systems with distributed parameters. **89h:49019**
Megan, M. *see* **Preda, P.**, **89f:93030**
Mel'nik, V. S. *see* **Ivanenko, V. I.**, **89g:93031**
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Muselli, Elena Observation on a lower closure theorem for a functional in abstract control problems. (Italian. English summary) **89d:49012**
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Oshchepkov, S. P. (*with* Sholokhovich, F. A.) A sufficient condition for epsilon-controllability. (Russian) **89h:93010**
Osipov, Yu. S. *see* **Kryazhimskiĭ, A. V.**, **89f:49032**
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Partington, J. R. *see* **Zwart, H. J.; et al.**, (Not in MR)
Piccioni, M. *see* **Germani, A.; et al.**, **89c:93071** *and* **89j:93117**
Popa, Cătălin *see* **Aniculăesei, G.**, **89b:49046**
Powers, Robert K. *see* **Ito, Kazufumi**, **89m:49010**
Preda, P. (*with* Megan, M.) On the stability of linear infinite-dimensional discrete-time systems. (Serbo-Croatian summary) **89f:93030**
Przyłuski, K. M. Stability of linear infinite-dimensional systems revisited. **89j:93101**
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— Controllability does not imply stabilizability. **89b:93022**
Rabah, R. (*with* Ionescu, D.) Stabilization problem in Hilbert spaces. **89c:93059**
Rogowski, Andrzej Existence of solution of nonconvex optimization in Banach space. **89m:49011**
Rosen, I. G. *see* **Gibson, James S.**, **89a:93020** *and* **89e:93090**
Salamon, Dietmar Realization theory in Hilbert space. **89k:93038**
Sato, Yoshiya *see* **Furuta, K.; et al.**, **89m:49052**
Seo, Jin H. *see* **Emre, E.**, **89k:93034**
Serovaĭskiĭ, S. Ya. Variational problems with an operator criterion for optimality. (Russian. Kazakh summary) **89c:49018**
Sholokhovich, F. A. *see* **Oshchepkov, S. P.**, **89h:93010**
Sokołowski, Jan Sensitivity analysis of control constrained optimal control problems for distributed parameter systems. **89c:49017**
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Sun, Yü I. *see* **Chung, Hung Yuan**, (Not in MR)
Sunahara, Y. *see* **Aihara, S.-I.**, **89i:93103**
Taldykin, A. T. (*with* Ulanova, T. A.) Realization of a given trajectory of motion and of a pencil of trajectories. **89e:34105**
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Ulanova, T. A. *see* **Taldykin, A. T.**, **89e:34105**
Usmanov, Z. D. *see* **Vasil'ev, V. I.; et al.**, **89m:93045**
Vasil'ev, V. I. (*with* Gorelov, Yu. I.; Usmanov, Z. D.) Synthesis of optimal simulational control in systems with cyclic technology. **89m:93045**
Wu, Jing Bo Bilaterally canonical normal symmetric realizations. **89b:93034**
— Some results on infinite-dimensional realization theory. **89d:93021**
Yamakita, M. *see* **Furuta, K.; et al.**, **89m:49052**
Yamamoto, Masahiro *see* **Nakagiri, Shinichi**, **89i:93033**
You, Yun Cheng *see* **Lee, E. B.**, **89i:93050**
Zabczyk, J. Exit problem for infinite-dimensional systems. **89b:60147**
Zavgren, John R., Jr. *see* **Tarn, Tzyh Jong; et al.**, **89d:93087** *and* **89h:93039**
Zeng, Xiaoming *see* **Tarn, Tzyh Jong; et al.**, **89d:93087** *and* **89h:93039**
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Zolésio, J.-P. *see* **Cuer, M.**, **89g:49035**
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93C30 Systems governed by functional relations other than differential or integral equations

Bacon, D. W. *see* **Tade, M. O.; et al.**, **89f:93024** *and* **89f:93025**
Bajić, Vladimir B. Generic stability and boundedness of semistate systems. **89e:93130**
Balachandran, Krishnan *see* **Palanisamy, K. R.**, (Not in MR)
Bayoumi, M. M. *see* **Tade, M. O.; et al.**, **89f:93024** *and* **89f:93025**
Clement, Thierry (*with* Gentil, Sylviane) Reformulation of parameter identification with unknown-but-bounded errors. (Not in MR)
Dai, Li Yi Control problem for linear systems with input derivatives control. **89e:93131**
Denham, M. J. A Petri-net approach to the control of discrete-event systems. **89m:93044**
Du, Y. (*with* Wang, Shih Ho) Control of discrete-event systems with minimal switchings. **89g:93054**
Fanti, Maria Pia (*with* Maione, Bruno; Turchiano, Biagio) Structurally fixed modes of systems described by Rosenbrock's polynomial matrices. **89j:93063**
Gawronski, Wlodzimierz (*with* Natke, H. G.) Order estimation of AR and ARMA models. **89e:93132**
Gentil, Sylviane *see* **Clement, Thierry**, (Not in MR)
Golaszewski, C. H. (*with* Ramadge, P. J.) Supervisory control of discrete event processes with arbitrary controls. **89k:93119**
Gorelov, Yu. I. *see* **Vasil'ev, V. I.; et al.**, **89m:93045**
Hara, Shinji (*with* Yamamoto, Yutaka; Omata, Tohru; Nakano, Michio) Repetitive control system: a new type servo system for periodic exogenous signals. **89d:93056**
Hung, S. T. (*with* Kokotović, P. V.; Winkelman, J. R.) Self tuning of conflicting oscillatory modes: a case study. **89k:93120**
Inan, Kemal (*with* Varaiya, P.) Finitely recursive process models for discrete event systems. (Not in MR)
Jin, Zhong Ji *see* **Wang, Yue Yun; et al.**, **89i:93068**
Kaczorek, T. Sufficient conditions for impulse uncontrollability and impulse unobservability of singular systems. **89k:93121**
Kokotović, P. V. *see* **Hung, S. T.; et al.**, **89k:93120**
Krikelis, N. J. *see* **Mantas, G. P.**, (Not in MR)
Kurina, G. A. On the theory of linear-quadratic control problems that are not solved with respect to the derivative. (Russian) **89h:93031**
Lewis, F. L. *see* **Mertzios, B. G.**, **89k:93124** *and* (Not in MR)
Li, Si Fu An improvement of model algorithmic control. (Chinese. English summary) **89j:93064**
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Maeda, Mikio (*with* Murakami, Shuta) A design for a fuzzy logic controller. **89h:93032**
Maione, Bruno *see* **Fanti, Maria Pia; et al.**, **89j:93063**
Mantas, G. P. (*with* Krikelis, N. J.) LQ optimal control for discrete descriptor systems with a complete set of boundary information. (Not in MR)
Mertzios, B. G. (*with* Lewis, F. L.) An algorithm for the computation of the transfer function matrix of generalized two-dimensional systems. **89k:93124**
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Murakami, Shuta *see* **Maeda, Mikio, 89h:93032**

Nakano, Michio *see* **Hara, Shinji; et al., 89d:93056**

Natke, H. G. *see* **Gawronski, Wlodzimierz, 89e:93132**

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Turchiano, Biagio *see* **Fanti, Maria Pia; et al., 89j:93063**

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Vachtsevanos, G. *see* **Mertzios, B. G.; et al.,** (Not in MR)

Varaiya, P. *see* **Inan, Kemal,** (Not in MR)

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Vaz, A. F. *see* **Lin, Feng; et al.,** (Not in MR)

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Wang, En Ping *see* **Wang, Chao Zhu, 89k:93127**

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Wonham, W. M. A control theory for discrete-event systems. **89j:93065**

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Xu, Ke Kang An optimal regulator for singular systems. (Chinese. English summary) **89i:93069**

Yamamoto, Yutaka *see* **Hara, Shinji; et al., 89d:93056**

Yang, Zi Hou *see* **Lin, Jing Yue, 89e:93133**

Zhang, Zhong Jun *see* **Wang, Yue Yun; et al., 89b:93067** *and* **89i:93068**

Items with secondary classifications in 93C30

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Billings, S. A. *see* **Chen, Sheng^2, 89k:93208**

Bonitz, M. *see* **Klimontovich, Yu. L., 89g:82034**

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Dziurla, B. (*with* Newcomb, R. W.) Input-output pairing in LTV semistate systems. (Not in MR)

Fahmy, Mahmoud M. (*with* O'Reilly, John) Parametric eigenstructure assignment for continuous-time descriptor systems. **89k:93111**

Fang, Ding Fa A new algorithm for parameter estimation for time-varying systems. (Chinese. English summary) **89j:93126**

Filipović, Vojislav Ž. *see* **Kovačević, Branko D.,** (Not in MR)

Fletcher, L. R. Eigenstructure assignment by output feedback in descriptor systems. (Not in MR)

Gelig, A. Kh. (*with* Karetnyĭ, O. Ya.; Yudkevich, M. L.) Stability and ultimate boundedness of processes in systems with pulse-width modulation. **89e:93157**

Glüsing-Lüerssen, H. (*with* Hinrichsen, D.) A Jordan control canonical form for singular systems. **89k:93030**

Gottlieb, Daniel H. Topology and the robot arm. **89e:57026**

Hinrichsen, D. *see* **Glüsing-Lüerssen, H., 89k:93030**

Hong, Hui Min *see* **Chen, Zhao Lin; et al., 89i:93008**

Hong, Yiming On the nonexistence of nontrivial perfect e-codes and tight $2e$-designs in Hamming schemes $H(n,q)$ with $e \geq 3$ and $q \geq 3$. **89d:94046**

Huang, Ch′i (*with* Ch′ên, Mu Yang) Stable reduction of linear discrete-time systems via multipoint squared-magnitude CFE. (Not in MR)

Ibrahim, Essam Y. (*with* Lovass-Nagy, V.; Mukundan, Rangaswamy; Schilling, Robert J.) Free final-time optimal control of descriptor systems. **89g:49033**

Ignatenko, V. V. (*with* Krakhotko, V. V.) On the controllability of systems that are not solved with respect to the derivative. (Russian) (*see* **89c:00009**)

Ioannou, P. A. (*with* Sun, J.) Theory and design of robust direct and indirect adaptive-control schemes. **89f:93014**

Jonckheere, Edmond Variational calculus for descriptor problems. **89f:49027**

Kanellakis, A. *see* **Tzafestas, Spyros G.; et al., 89k:93191**

Karetnyĭ, O. Ya. *see* **Gelig, A. Kh.; et al., 89e:93157**

Kas′yanyuk, V. S. Optimal control from data affected by noise. (Russian) **89j:93141**

Kharybin, N. I. *see* **Baranov, V. V.; et al., 89d:93115**

Klimontovich, Yu. L. (*with* Bonitz, M.) Evolution of the entropy of stationary states in self-organization processes in the control parameter space. **89g:82034**

Kocherga, Yu. L. Minimax control optimization in hydrological processes. **89j:93079**

Koda, Masato Sensitivity analysis of descriptor distributed parameter systems. **89i:93038**

Kovačević, Branko D. (*with* Filipović, Vojislav Ž.) Robust real-time identification of linear systems with correlated noise. (Not in MR)

Krakhotko, V. V. *see* **Ignatenko, V. V., (89c:00009)**

Lin, Yi^3 Periodic linked time systems. **89e:93003**

Logemann, Hartmut (*with* Owens, D. H.) Robust high-gain feedback control of infinite-dimensional minimum-phase systems. **89e:93180**

Lovass-Nagy, V. *see* **Ibrahim, Essam Y.; et al., 89g:49033**

Lumel′skiĭ, Ya. P. Control according to a quality criterion with classification errors.

Milić, M. M. *see* **Bajić, Vladimir B., 89k:93154**

Millnert, Mille Identification of ARX models with Markovian parameters. **89a:93055**

Mukundan, Rangaswamy *see* **Ibrahim, Essam Y.; et al., 89g:49033**

Murota, Kazuo ★ Systems analysis by graphs and matroids. **89b:93017**

— Refined study on structural controllability of descriptor systems by means of matroids. **89g:93005**

Newcomb, R. W. *see* **Dziurla, B.,** (Not in MR)

Ohkami, Y. *see* **Yamada, K.; et al.,** (Not in MR)

O'Reilly, John *see* **Fahmy, Mahmoud M., 89k:93111**

Owens, D. H. *see* **Logemann, Hartmut, 89e:93180**

Podtsykin, N. S. *see* **Baranov, V. V.; et al., 89d:93115**

Popławski, Andrzej J. Application of the calculus of variations to the solution of identification and measurement problems. (Polish. English and Russian summaries) (Not in MR)

Reyman, Grzegorz (*with* Schäfer, Wolfgang; Trippler, Gisela) Application of dynamic programming and discrete maximum principle to a problem of optimal operation choice for a robot in assembly processes. (Russian and Polish summaries) (Not in MR)

Rubinstein, Reuven Y. (*with* Szidarovszky, Ferenc) Convergence of perturbation analysis estimates for discontinuous sample functions: a general approach. **89h:93056**

Schäfer, Wolfgang *see* **Reyman, Grzegorz; et al.,** (Not in MR)

Schilling, Robert J. *see* **Ibrahim, Essam Y.; et al., 89g:49033**

Shayman, Mark A. Pole placement by dynamic compensation for descriptor systems. **89i:93054**

Shi, Song Jiao *see* **Wang, Yue Yun; et al., 89e:93108**

Sirazetdinov, R. T. Construction of a guaranteed domain for the distribution of zeros and poles of transfer functions of dynamic systems. (Not in MR)

Spong, Mark W. A semistate approach to feedback stabilization of neutral delay systems. **89d:93086**

Sun, J. *see* **Ioannou, P. A., 89f:93014**

Szidarovszky, Ferenc *see* **Rubinstein, Reuven Y., 89h:93056**

Tan, Hua Lin *see* **Yang, Cheng Wu, 89g:93018**

Tan, Shaohua (*with* Vandewalle, Joos) Canonical form under strong equivalence transformations and controllability indexes in singular systems. **89g:93010**

Theodorou, N. *see* **Tzafestas, Spyros G.; et al., 89k:93191**

Trippler, Gisela *see* **Reyman, Grzegorz; et al.,** (Not in MR)

Tsuchiya, K. *see* **Yamada, K.; et al.,** (Not in MR)

Tzafestas, Spyros G. (*with* Theodorou, N.; Kanellakis, A.) Recent advances in the stability analysis of multi-dimensional systems. **89k:93191**

Vagin, V. N. ★ Дедукция и обобщение в системах принятия решений. (Russian) [Deduction and generalization in decision-making systems] **89k:68140**

Vandewalle, Joos *see* **Tan, Shaohua, 89g:93010**

Wang, Chao Zhu *see* **Dai, Li Yi,** (Not in MR)

Wang, Yue Yun (*with* Shi, Song Jiao; Zhang, Zhong Jun) Design of optimal regulators for generalized systems. (Chinese. English summary) **89e:93108**

Wu, Han Sheng Generalized maximum principle for optimal control of generalized state-space systems. **89b:49041**

Yakubovich, V. A. Adaptive stabilization of continuous linear objects. **89m:93053**

Yamada, K. (*with* Tsuchiya, K.; Ohkami, Y.) Dynamical models for a flexible multibody system. (Not in MR)

Yang, Cheng Wu (*with* Tan, Hua Lin) The minimal realization problem for singular systems. (Chinese. English summary) **89g:93018**

Yudkevich, M. L. *see* **Gelig, A. Kh.; et al., 89e:93157**

Zelyk, Ya. I. Computational expenditure in recurrent algorithms for current identification. (Russian) (*see* **89f:93002**)

Zhang, Ji Feng *see* **Chen, Zhao Lin; et al., 89i:93008**

Zhang, Zhong Jun *see* **Wang, Yue Yun; et al., 89e:93108**
Zhao, Ke You A realization method for singular systems. (Chinese. English summary) **89g:93023**

93C35 Multivariable systems

Ch'ên, Po Hsien (*with* Wang, Shun Hsiang) Multivariable model matching control: perfect and imperfect cases. **89d:93057**
Huang, Lin Some new results in multivariable linear system, Some achievements in China, 1980–1984. **89c:93048**
Khristov, Nikolaĭ D. *see* **Petkov, Petko Khr.; et al.**, (Not in MR)
Konstantinov, Mikhail M. *see* **Petkov, Petko Khr.; et al.**, (Not in MR)
Petkov, Petko Khr. (*with* Khristov, Nikolaĭ D.; Konstantinov, Mikhail M.) The interactive system SYSLAB for the analysis and design of linear multidimensional systems. (Bulgarian. English and Russian summaries) (Not in MR)
Schumacher, J. M. Analytic methods for the modeling of flexible structures. **89j:93066**
Wang, Shun Hsiang *see* **Ch'ên, Po Hsien, 89d:93057**
Wen, John T. Time domain and frequency domain conditions for strict positive realness. **89j:93067**

Items with secondary classifications in 93C35

Abdul-Wahab, Abdul-Amir A. (*with* Zohdy, M. A.) Eigenvalue clustering in subregions of the complex plane. **89i:93057**
Amin, M. H. (*with* Hassan, M. M.) Determination of invariant zeros and zero directions of the system $S(A, B, C, E)$. **89k:93099**
Amin, R. (*with* Edmunds, J.) Confidence limits of identified frequency responses of multivariable systems. (Not in MR)
Apte, Y. S. New minimal order design algorithm for linear multivariable systems. **89k:93078**
Bandyopadhyay, B. *see* **Lamba, S. S.; et al., 89e:93042**
Barmish, B. Ross *see* **Wei, K. H., 89k:93180**
Bhattacharyya, Shankar Prashad *see* **Shafai, B., 89j:93041**
Bingulac, S. (*with* Chow, J. H.; Winkelman, J. R.) Simultaneous generation of sensitivity functions—transfer function matrix approach. **89i:93036**
Birk, J. (*with* Zeitz, M.) Extended Luenberger observer for nonlinear multivariable systems. (Not in MR)
Calvet, J. L. *see* **Sultan, M. A.; et al., 89b:49050**
Castelein, R. (*with* Johnson, Alan) Constrained optimal control. **89k:93041**
Cerrada, C. *see* **Feliu, V.; et al.**, (Not in MR)
Cerrada, J. A. *see* **Feliu, V.; et al.**, (Not in MR)
Chai, Tian You A self-tuning decoupling controller for a class of multivariable systems and global convergence analysis. **89e:93136**
— Globally convergent self-tuning controllers. **89e:93231**
Chen, Dong *see* **Tu, Feng Sheng, 89b:93029**
Ch'ên, Po Hsien (*with* Kuo, Chih Tsung) Multivariable control design for stochastic systems with saturated driving: LQG optimal approach. **89a:93026**
— *see also* **Hsiao, Fêng Hsiang, 89b:93081** *and* **Lu, Hung Ching, 89g:93075**
Chen, Wai-Kai (*with* Tong, Mao Da) Analysis and computation of feedback matrices in multivariable and multiloop feedback networks. **89i:94051**
Chen, Xue Bo (*with* Li, Shu Sheng^1) Stability analysis of multivariable systems. (Chinese. English summary) **89d:93071**
Chotai, A. (*with* Owens, D. H.) Nonadaptative control of unknown multivariable systems. (Russian summary) **89e:93087**
Chow, J. H. *see* **Bingulac, S.; et al., 89i:93036**
Christodoulou, M. A. Pole placement for generalized MFDs. **89f:93018**
Chuang, Yao T'ang (*with* Hsü, Chên Fa; Kuo, Tê Shêng; Wu, Chin Fu) Allowable perturbations for the stability robustness of systems with uncertain parameters. (Chinese summary) **89a:93040**
Commault, C. (*with* Descusse, J.; Dion, J. M.; Lafay, J. F.; Malabre, M.) Influence de la structure à l'infini des systèmes linéaires sur la solution des problèmes de commande. (English summary) [Influence of the structure at infinity of linear systems on the solution of control problems] **89k:93087**
— *see also* **Dion, J. M., 89a:49034**
Deistler, Manfred *see* **Hannan, E. J., 89m:60085**
Desai, U. B. *see* **King, A. M.; et al., 89e:93181**
Descusse, J. *see* **Commault, C.; et al., 89k:93087**
Dib, H. M. *see* **Shieh, L. S.; et al., 89e:93103**
Dion, J. M. (*with* Commault, C.) The minimal delay decoupling problem: feedback implementation with stability. **89a:49034**
— *see also* **Commault, C.; et al., 89k:93087**
Edmunds, J. *see* **Amin, R.**, (Not in MR)
El Arabawy, I. F. *see* **Sebakhy, O. A.; et al.**, (Not in MR)
El Singaby, M. I. *see* **Sebakhy, O. A.; et al.**, (Not in MR)
Emre, E. On globally stable adaptive stabilization/pole placement. **89c:93045**
Endo, K. *see* **Zhong, Yi Sheng; et al.**, (Not in MR)
Fahmŷ, Mahmoud M. (*with* O'Reilly, John) Multistage parametric eigenstructure assignment by output-feedback control. **89e:93119**
Feliu, V. (*with* Cerrada, J. A.; Cerrada, C.) An algorithm to compute the continuous state model from its equivalent discrete model. (Not in MR)
Feng, Suo Fu A generalized pole placement self-tuning controller for a class of multivariable systems. (Chinese. English summary) **89d:93048**
Ferreira, Pedro M. G. Comments on: "Internal stabilization and decoupling in linear multivariable systems by unity output feedback compensation" [IEEE Trans. Automat. Control 32 (1987), no. 8, 735–739] by A. I. G. Vardulakis. (Not in MR)
Fettweis, A. A new approach to Hurwitz polynomials in several variables. **89d:93030**
Ganesan, Sekar *see* **Mehio, M. M.; et al.**, (Not in MR)
Gevers, M. *see* **Mareels, I. M. Y., 89j:93098**
Gorez, R. *see* **Lamba, S. S.; et al., 89e:93042**
Grasselli, Osvaldo Maria (*with* Longhi, Sauro) Disturbance localization by measurement feedback for linear periodic discrete-time systems. **89g:93041**
Gray, J. O. *see* **Valsamis, D.; et al., 89d:93089**
Grimble, M. J. Optimal H_∞ multivariable robust controllers and the relationship to LQG design problems. **89i:93028**
Grizzle, Jessy W. *see* **Moog, Claude H., 89k:93058**
Han, Chong Zhao (*with* Wang, Li Qi; Wan, Bai Wu) A decomposition-coordination algorithm for multivariable self-tuning control. (Chinese. English summary) **89j:93078**
Han, Kuang Wei *see* **Tsay, Tain Sou**, (Not in MR)
Hannan, E. J. (*with* Deistler, Manfred) ★ The statistical theory of linear systems. **89m:60085**
Hassan, M. F. *see* **Sultan, M. A.; et al., 89b:49050**
Hassan, M. M. *see* **Amin, M. H., 89k:93099**
Hsiao, Fêng Hsiang (*with* Ch'ên, Po Hsien) LQG optimal and robust controller design for nonlinear stochastic systems: multivariable case. **89b:93081**
Hsü, Chên Fa *see* **Chuang, Yao T'ang; et al., 89a:93040**
Hu, Shi Cai (*with* Zang, Jun) The disturbance decoupling problem in decentralized linear multivariable systems by local dynamic feedback. **89e:93008**
Jiang, Xiao Hua An algorithm with decreasing adaptive gains for multivariable discrete model reference adaptive systems. (Chinese. English summary) **89f:93027**
Jódar, Lucas Integral equations and time varying linear systems. **89d:45020**
Johnson, Alan *see* **Castelein, R., 89k:93041**
Kazerooni, H. Loop shaping design related to LQG/LTR for SISO minimum phase plants. (Not in MR)
Kimura, Hidenori *see* **Zhao, Yao, 89e:93078**
King, A. M. (*with* Desai, U. B.; Skelton, Robert E.) A generalized approach to q-Markov covariance equivalent realizations for discrete systems. **89e:93181**
Kuo, Chih Tsung *see* **Ch'ên, Po Hsien, 89a:93026**
Kuo, Tê Shêng *see* **Chuang, Yao T'ang; et al., 89a:93040**
Kwakernaak, Huibert A polynomial approach to minimax frequency domain optimization. **89c:93028**
Lafay, J. F. *see* **Commault, C.; et al., 89k:93087**
Lamba, S. S. (*with* Gorez, R.; Bandyopadhyay, B.) New reduction technique by step error minimization for multivariable systems. **89e:93042**
Lasserre, J. B. Existence of closed-loop policies for constrained discrete-time linear systems with bounded disturbances. **89f:93021**
Lee, T. N. (*with* Radovic, U. L.) Decentralized stabilization of linear continuous and discrete-time systems with delays in interconnections. **89k:93171**
Li, Shu Sheng^1 *see* **Chen, Xue Bo, 89d:93071**
Lin, Wei^2 (*with* Liu, Mei Hua) Multivariable adaptive control with arbitrary dimension of input and output. (Chinese. English summary) **89i:93076**
Liu, Hong Cai *see* **Yin, Yi Xin; et al., 89j:93074**
Liu, Mei Hua *see* **Lin, Wei^2, 89i:93076**
Locatelli, A. Some aspects of the optimal synthesis of multivariate regulators. (Italian. English summary) **89a:93027**
Longhi, Sauro *see* **Grasselli, Osvaldo Maria, 89g:93041**
Lozowicki, Adam On the optimization of control systems in meaning of certain class of input signals. (*see* **89a:94001**)
Lu, Hung Ching (*with* Ch'ên, Po Hsien) Stabilization of multivariable feedback systems with multiple time delays. **89g:93075**
Luse, D. W. A Nyquist-type stability test for multivariable distributed systems. **89d:93083**
Ma, C. C. H. (*with* Vidyasagar, M.) Direct globally convergent adaptive regulation of stable multivariable plants. **89c:93051**
Malabre, M. *see* **Commault, C.; et al., 89k:93087**
Manuĭlov, Yu. S. A logical-analytic method for the design of controllers in the form of feedback. (Russian. English summary) **89e:93097**
Mareels, I. M. Y. (*with* Gevers, M.) Persistency of excitation criteria for linear, multivariable, time-varying systems. **89j:93098**
Marino, Riccardo (*with* Respondek, Witold; van der Schaft, A. J.) Almost disturbance decoupling for multivariable nonlinear systems: a sufficient condition. **89k:93093**
Mårtensson, Bengt Adaptive stabilization of multivariable linear systems. **89d:93061**
— Adaptive stabilization without high-gain. **89i:93092**
Mehio, M. M. (*with* Ganesan, Sekar; Shieh, L. S.) Eigenstructure assignment in multivariable state-feedback design. (Not in MR)
Meinguet, Jean On the Glover concretization of the Adamjan-Arov-Kreĭn approximation theory. **89c:93033**
Moog, Claude H. (*with* Grizzle, Jessy W.) Découplage non linéaire vu de l'algèbre linéaire. (English summary) [Nonlinear decoupling from a linear algebraic viewpoint] **89k:93058**
Morari, Manfred *see* **Zafiriou, Evanghelos, 89a:93029**
Newmann, M. M. *see* **Roberts, A. P., 89i:93025**
Nijmeijer, Henk (*with* Respondek, Witold) Dynamic input-output decoupling of nonlinear control systems. **89j:93059**
Nwokah, Osita D. I. Quantitative design of robust multivariable control systems. **89e:93100**
O'Reilly, John *see* **Fahmŷ, Mahmoud M., 89e:93119**
Owens, D. H. *see* **Valsamis, D.; et al., 89d:93089** *and* **Chotai, A., 89e:93087**
Pang, Guo Zhong The design of a class of multivariable control systems. (Chinese) (Not in MR)
Pełczewski, Jerzy Computation of the straightforward solution of some linear state equation. (Russian summary) **89c:93047**
Petersen, Ian R. Stabilization of an uncertain linear system in which uncertain parameters enter into the input matrix. **89m:93069**
Radovic, U. L. *see* **Lee, T. N., 89k:93171**
Respondek, Witold *see* **Nijmeijer, Henk, 89j:93059** *and* **Marino, Riccardo; et al., 89k:93093**
Roberts, A. P. (*with* Newmann, M. M.) Polynomial optimization of stochastic feedback control for stable plants. **89i:93025**
van der Schaft, A. J. *see* **Marino, Riccardo; et al., 89k:93093**
Sebakhy, O. A. (*with* El Singaby, M. I.; El Arabawy, I. F.) Shaping of the output response in a class of linear multivariable systems. (Not in MR)
Shafai, B. (*with* Bhattacharyya, Shankar Prashad) An algorithm for pole assignment in high order multivariable systems. **89j:93041**
— Parallel procedure for the design of observers in high-order multivariable systems. (Not in MR)

— *see also* **Tsui, Chia-Chi**, (Not in MR)

Shi, Song Jiao (*with* Wang, Yue Yun) Design of minimum sensitivity controllers by eigenstructure assignment. (Chinese. English summary) **89j:93037**

Shieh, L. S. (*with* Dib, H. M.; Yates, R. E.) Sequential design of linear quadratic state regulators via the optimal root-locus techniques. **89e:93103**

— *see also* **Mehio, M. M.; et al.**, (Not in MR)

Shu, Di Qian *see* **Yin, Yi Xin; et al.**, **89j:93074**

Skelton, Robert E. *see* **King, A. M.; et al.**, **89e:93181**

Sokolov, V. I. Synthesis of a decomposing control in nonlinear dynamical systems. **89g:93030**

Su, Xue Cheng *see* **Wang, Ji Hong**, **89i:93056**

Sultan, M. A. (*with* Hassan, M. F.; Calvet, J. L.) Parameter estimation in large-scale systems using sequential decomposition. **89b:49050**

Sun, You Xian (*with* Wang, Qing Guo) Observer design for bilinear multivariable systems with unknown disturbance. (Chinese summary) **89k:93028**

— *see also* **Wang, Qing Guo; et al.**, **89b:34176**

Takeuchi, Tomoyoshi *see* **Zhong, Yi Sheng; et al.**, (Not in MR)

Tong, Mao Da *see* **Chen, Wai-Kai**, **89i:94051**

Tsay, Tain Sou (*with* Han, Kuang Wei) Diagonal dominance design of multivariable feedback control systems using the stability-equation method. (Not in MR)

Tsui, Chia-Chi Comments on: "Parallel procedure for the design of observers in high-order multivariable systems" [Internat. J. Control **47** (1988), no. 5, 1489–1496] by B. Shafai. (Not in MR)

Tu, Feng Sheng (*with* Chen, Dong) Jordan invariants and canonical forms for linear multivariable systems. (Chinese. English summary) **89b:93029**

Unbehauen, H. (*with* Vakilzadeh, I.) Optimal synchronization of n identical double-integral plants with identical inputs but different initial conditions. **89k:93097**

Vakilzadeh, I. *see* **Unbehauen, H.**, **89k:93097**

Valsamis, D. (*with* Owens, D. H.; Gray, J. O.) Stability and performance bounds for the linearisation-based analysis and design of multivariable nonlinear systems. **89d:93089**

(Vardulakis, A. I. G.) *see* **Ferreira, Pedro M. G.**, (Not in MR)

Venkatesh, Y. V. Converse Hölder inequality and the L_p-instability of nonlinear time-varying feedback systems. **89d:93076**

Vidyasagar, M. The stable factorization approach to linear multivariable systems. **89i:93060**

— *see also* **Ma, C. C. H.**, **89c:93051**

Wan, Bai Wu *see* **Han, Chong Zhao; et al.**, **89j:93078**

Wang, Ji Hong (*with* Su, Xue Cheng) A new quasi-analytical method for designing quadratic performance target optimal systems. (Chinese. English summary) **89i:93056**

Wang, Li Qi *see* **Han, Chong Zhao; et al.**, **89j:93078**

Wang, Qing Guo (*with* Sun, You Xian; Zhou, Chun Hui) Finite spectrum assignment for multivariable delay systems in the frequency domain. **89b:34176**

— *see also* **Sun, You Xian**, **89k:93028**

Wang, Sheng Guo A synthesis algorithm for general compensation with invariant asymptotic behavior of the multivariable root locus. (Chinese. English summary) **89e:93055**

Wang, Yue Yun *see* **Shi, Song Jiao**, **89j:93037**

Wei, K. H. (*with* Barmish, B. Ross) An iterative design procedure for simultaneous stabilization of MIMO systems. **89k:93180**

Winkelman, J. R. *see* **Bingulac, S.; et al.**, **89i:93036**

van der Woude, J. W. Disturbance decoupling and output stabilization by measurement feedback: a combined approach. **89c:93060**

Wu, Chin Fu *see* **Chuang, Yao T'ang; et al.**, **89a:93040**

Yates, R. E. *see* **Shieh, L. S.; et al.**, **89e:93103**

Yin, Yi Xin (*with* Shu, Di Qian; Liu, Hong Cai) Computer-aided design of multivariable self-tuning control and its application. (Chinese. English summary) **89j:93074**

Zafiriou, Evanghelos (*with* Morari, Manfred) Digital controller design for multivariable systems with structural closed-loop performance specifications. **89a:93029**

Zang, Jun *see* **Hu, Shi Cai**, **89e:93008**

Zeitz, M. *see* **Birk, J.**, (Not in MR)

Zhao, Yao (*with* Kimura, Hidenori) Multivariable dead-beat control with robustness. **89e:93078**

Zhong, Yi Sheng (*with* Takeuchi, Tomoyoshi; Endo, K.) Decoupling control for multivariable systems with amplitude limitation on the inputs. (Not in MR)

Zhou, Chun Hui *see* **Wang, Qing Guo; et al.**, **89b:34176**

Zohdy, M. A. *see* **Abdul-Wahab, Abdul-Amir A.**, **89i:93057**

93C40 Adaptive

Arapostathis, Aristotle *see* **Nam, Kwanghee**, **89g:93058**

Bai, Shi (*with* Salam, Fathi M. A.) Disturbance-generated bifurcation in a prototype adaptive system with e_1-modification law. **89m:93046**

— *see also* **Salam, Fathi M. A.**, **89h:93035**

Begovich, Ofelia *see* **Fernández, Guillermo; et al.**, **89e:93137**

Bien, Zeungnam *see* **Choi, Y. K.**, (Not in MR)

Bitmead, Robert R. *see* **Mareels, I. M. Y.**, **89e:93142** *and* **89g:93056**

Bodyanskiĭ, E. V. (*with* Solov'eva, T. V.) Synthesis of pseudodual adaptive regulators. (Russian. English summary) **89f:93026**

Borisenko, A. I. Adaptive control of a matrix of spectral densities at the output of a linear multidimensional object. (Russian) **89m:93047**

Boschková, Monika Self-tuning controls of linear stochastic systems in presence of drift. **89k:93128**

Breitenecker, F. *see* **Peschel, M.; et al.**, (**89c:93002**)

Burton, J. A. (*with* Zinober, A. S. I.) Continuous self-adaptive control using a smoothed variable structure controller. (Not in MR)

Byrnes, Christopher I. (*with* Helmke, Uwe; Morse, A. Stephen) Necessary conditions in adaptive control. **89d:93058**

Chai, Tian You A new self-tuning feedforward controller. (Chinese. English summary) (Not in MR)

— A self-tuning decoupling controller for a class of multivariable systems and global convergence analysis. **89e:93136**

— Deterministic convergence of a multivariable self-tuning controller. (Chinese. English summary) **89i:93070**

Chalam, V. V. Adaptive control—recent trends. (Russian summary) (Not in MR)

Chen, Han Fu (*with* Guo, Lei) Adaptive control via consistent estimation for deterministic systems. **89b:93068**

— (*with* Guo, Lei) A robust stochastic adaptive controller. **89i:93071**

Ch'ên, Po Hsien (*with* Lin, Chih Min) Multipurpose adaptive control in deterministic multivariable systems. (Not in MR)

— *see also* **Hwang, C. L.**, **89e:93139**

Chen, Ye-Hwa (*with* Tomizuka, Masayoshi) Design of adaptive observer for plant under input disturbance and measurement noise. **89a:93031**

Choi, Y. K. (*with* Bien, Zeungnam) Decentralized adaptive control scheme for control of a multi-arm-type robot. (Not in MR)

Chong, B. W. *see* **Hang, C. C.; et al.**, (Not in MR)

Chou, D. S. *see* **Sworder, D. D.**, **89a:93035**

Cluett, W. R. Some comments on the use of normalization in robust adaptive control. **89k:93129**

Cristi, Roberto Parallel processing in the adaptive control of linear systems. **89d:93059**

Dahleh, Mohammed (*with* Dahleh, Munther A.) A class of adaptive controllers with application to robust adaptive control. **89k:93130**

Dahleh, Munther A. *see* **Dahleh, Mohammed**, **89k:93130**

Dai, Guan Zhong *see* **Zhu, Zhi Xiang; et al.**, **89k:93138**

Dai, Jin *see* **Luo, Zong Qian**, (Not in MR)

De Keyser, R. M. C. (*with* Van de Velde, Ph. G. A.; Dumortier, F. A. G.) A comparative study of self-adaptive long-range predictive control methods. (Not in MR)

Djaferis, T. E. Robust decoupling for systems with parameters. (*see* **89b:93008**)

Dumortier, F. A. G. *see* **De Keyser, R. M. C.; et al.**, (Not in MR)

Duncan, T. E. (*with* Pasik-Duncan, B.) Adaptive control of linear delay time systems. **89j:93068**

Evans, Robin J. *see* **Zhang, Cishen**, **89k:93137**

Feng, Chun Bo (*with* Luo, Ning Su; Li, Xiao Ming^1) Robustness of adaptive control systems. (Chinese. English summary) **89c:93049**

— Theory and applications of adaptive control. (Chinese. English summary) (Not in MR)

Fernández, Guillermo (*with* Ortega, Romeo; Begovich, Ofelia) Conditions for preservation of stability of adaptive controllers for systems with unmodeled delay. **89e:93137**

Goodwin, Graham C. (*with* Middleton, R.) Continuous and discrete adaptive control. **89a:93032**

— *see also* **Hill, David J.; et al.**, **89m:93048**

Grimble, M. J. Convergence of explicit LQG self-tuning controllers. **89e:93138**

Guo, Lei *see* **Chen, Han Fu**, **89b:93068** *and* **89i:93071**

Hamada, Kazuyasu (*with* Suzuki, Masayuki) Robust adaptive algorithm with nonlinear decay term. **89h:93033**

Han, Zhi Gang A stable control system with parameter adaptation and its application. (Chinese. English summary) **89j:93069**

Hang, C. C. (*with* Lim, K. W.; Chong, B. W.) A dual-rate adaptive digital Smith predictor. (Not in MR)

He, Wen Guang Multiple model adaptive control for a class of systems with uncertain parameters. (Chinese. English summary) **89i:93072**

Helmke, Uwe (*with* Prätzel-Wolters, D.) Stability and robustness properties of universal adaptive controllers for first-order linear systems. **89h:93034**

— *see also* **Byrnes, Christopher I.; et al.**, **89d:93058**

Hill, David J. (*with* Wen, Changyun; Goodwin, Graham C.) Stability analysis of decentralised robust adaptive control. **89m:93048**

Hu, Xi Heng *see* **Xu, Hong Yue**, **89b:93072**

Hwang, C. L. (*with* Ch'ên, Po Hsien) Adaptive control of optimal model matching in H^∞-norm space. **89e:93139**

Ioannou, P. A. *see* **Reed, John S.**, (Not in MR)

Janecki, Dariusz Model reference adaptive control using delta operator. (Not in MR)

Jiang, Xiao Hua An algorithm with decreasing adaptive gains for multivariable discrete model reference adaptive systems. (Chinese. English summary) **89f:93027**

Johansson, Rolf Stability of direct adaptive control with RLS-identification. **89c:93050**

Johnson, C. D. A singular condition in linear adaptive control theory. **89i:93073**

Kamoun, M. (*with* Titli, A.) Implicit self-tuning control for a class of large-scale systems. **89k:93131**

Katkovnik, V. Ya. (*with* Kheĭsin, V. E.) Adaptive control of a static essentially nonstationary object. **89e:93140**

Kelly, Rafael *see* **Ortega, Romeo; et al.**, (Not in MR)

(Khargonekar, Pramod P.) *see* **Ortega, Romeo**, (Not in MR)

Kheĭsin, V. E. *see* **Katkovnik, V. Ya.**, **89e:93140**

Kitamori, Toshiyuki *see* **Shin, Seiichi**, (Not in MR)

Kobayashi, Toshihiro Model reference adaptive control for spectral systems. **89i:93074**

— Input-output representations of spectral systems and adaptive controls. **89d:93060**

— Finite-dimensional adaptive control for infinite-dimensional systems. **89j:93070**

Kogan, M. M. (*with* Neĭmark, Yu. I.) Adaptive locally optimal control. (Russian. English summary) **89e:93141**

Kopacek, P. *see* **Peschel, M.; et al.**, (**89c:93002**)

(Krause, James M.) *see* **Ortega, Romeo**, (Not in MR)

Kurzhanskiĭ, A. B. Set-valued calculus in problems of adaptive control. **89m:93049**

Lee, T. Sen Theory and application of adaptive fading memory Kalman filters. **89b:93069**

Li, Xiao Ming^1 *see* **Feng, Chun Bo; et al.**, **89c:93049**

Li, Yong^4 A simple algorithm for discrete-time MRAC systems. (Chinese. English summary) (Not in MR)

Li, Zai Gen *see* **Lin, Ping Fan; et al.**, **89i:93075**

Li, Zheng Discrete-time adaptive control of systems consisting of known and unknown subsystems. **89k:93132**

Lim, K. W. *see* **Hang, C. C.; et al.**, (Not in MR)

Lin, Chih Min *see* **Ch'ên, Po Hsien**, (Not in MR)

Lin, Ping Fan (*with* Li, Zai Gen; Liu, Yong Qing) The hybrid self-tuning PID regulator and its application to pH control. (Chinese summary) **89i:93075**

Lin, Wei^2 (*with* Liu, Mei Hua) Multivariable adaptive control with arbitrary dimension of input and output. (Chinese. English summary) **89i:93076**
Liu, Hong Cai *see* **Yin, Yi Xin; et al., 89j:93074**
Liu, Mei Hua *see* **Lin, Wei^2, 89i:93076**
Liu, Yong Qing *see* **Lin, Ping Fan; et al., 89i:93075**
Liu, Yu Qi *see* **Wang, Hong^4, 89j:93073**
Lozano Leal, Rogelio *see* **Ortega, Romeo; et al.,** (Not in MR)
Luo, Ning Su *see* **Feng, Chun Bo; et al., 89c:93049**
Luo, Zong Qian (*with* Zhou, Quan Gen) A generalized minimum variance self-tuning controller with pole assignment. (Chinese. English summary) **89g:93055**
— (*with* Dai, Jin) A self-tuning PID controller. (Chinese. English summary) (Not in MR)
Ma, C. C. H. (*with* Vidyasagar, M.) Direct globally convergent adaptive regulation of stable multivariable plants. **89c:93051**
— Inherent robustness of discrete-time adaptive control systems. **89j:93071**
Mareels, I. M. Y. (*with* Bitmead, Robert R.) Nonlinear dynamics in adaptive control: periodic and chaotic stabilization. II. Analysis. **89e:93142**
— (*with* Bitmead, Robert R.) Bifurcation effects in robust adaptive control. **89g:93056**
Mårtensson, Bengt Adaptive stabilization of multivariable linear systems. **89d:93061**
Mende, W. *see* **Peschel, M.; et al.,** (**89c:93002**)
Middleton, R. *see* **Goodwin, Graham C., 89a:93032**
Miyasato, Yoshihiko Adaptive control for two-dimensional systems. (Japanese. English summary) **89k:93133**
— (*with* Oshima, Yasujiro) Nonlinear adaptive control for robotic manipulators with continuous control inputs. (Not in MR)
Moore, John Barratt *see* **Ryall, Tom,** (Not in MR)
Morse, A. Stephen Simple algorithms for adaptive stabilization. **89g:93057**
— *see also* **Byrnes, Christopher I.; et al., 89d:93058**
Mufti, I. H. An improved adaptive control for robust adaptation. (Not in MR)
Nam, Kwanghee (*with* Arapostathis, Aristotle) A model reference adaptive control scheme for pure-feedback nonlinear systems. **89g:93058**
Neĭmark, Yu. I. *see* **Kogan, M. M., 89e:93141**
Nordström, Niklas Persistency of excitation in possibly unstable continuous-time systems, identification, and indirect adaptive control. **89k:93134**
— Parameter convergence and stability in continuous-time indirect adaptive control. (Not in MR)
Ortega, Romeo A direct adaptive controller for linear periodic plants. (Not in MR)
— (*with* Kelly, Rafael; Lozano Leal, Rogelio) On global stability of adaptive systems using an estimator with parameter freezing. (Not in MR)
— Comments on: "Parameter information content of measurable signals in direct adaptive control" [IEEE Trans. Automat. Control **32** (1987), no. 9, 802–810] by J. M. Krause and P. P. Khargonekar. (Not in MR)
— *see also* **Fernández, Guillermo; et al., 89e:93137**
Oshima, Yasujiro *see* **Miyasato, Yoshihiko,** (Not in MR)
Panossian, Hagop V. Uncertainty management techniques in adaptive control. **89c:93052**
Pasik-Duncan, B. *see* **Duncan, T. E., 89j:93068**
Penev, G. D. Adaptive tracking of the programmed motion of nonlinear nonstationary systems. (Russian) **89a:93033**
Peschel, M. (*with* Mende, W.; Breitenecker, F.; Kopacek, P.) Adaptive control and growth processes. (*see* **89c:93002**)
Polderman, J. W. Adaptive pole assignment by state feedback. **89k:93135**
— (*with* van Schuppen, J. H.) Adaptive control. (Not in MR)
Polyakhov, N. D. Design of adaptive systems with signal algorithms. (Russian) **89d:93062**
Prätzel-Wolters, D. *see* **Helmke, Uwe, 89h:93034**
Reed, John S. (*with* Ioannou, P. A.) Discrete-time decentralized adaptive control. (Not in MR)
Ryall, Tom (*with* Moore, John Barratt) Central tendency minimum variance adaptive control. (Not in MR)
Ryan, E. P. Adaptive stabilization of a class of uncertain nonlinear systems: a differential inclusion approach. **89b:93070**
Salam, Fathi M. A. (*with* Bai, Shi) Complicated dynamics of a prototype continuous-time adaptive control system. **89h:93035**
— *see also* **Bai, Shi, 89m:93046**
van Schuppen, J. H. *see* **Polderman, J. W.,** (Not in MR)
de la Sen, Manuel Application of iterative suboptimal strategies for improving adaptation transients in adaptive systems. **89b:93071**
— A robust discrete adaptive control approach based on passivity results for nonlinear systems. **89e:93143**
Shaĭkhet, L. E. A problem of adaptive control with a standard model. (Russian) **89h:93036**
Shi, Wei *see* **Sun, Xi, 89e:93144** *and* (Not in MR)
Shin, Seiichi (*with* Kitamori, Toshiyuki) Continuous-time model reference adaptive control for an unknown nonlinear system. (Not in MR)
Shu, Di Qian *see* **Yin, Yi Xin; et al., 89j:93074**
Skowronski, Janisław M. Adaptive nonlinear model following and avoidance under uncertainty. (Not in MR)
Solov'eva, T. V. *see* **Bodyanskiĭ, E. V., 89f:93026**
Sragovich, V. G. New problems in the adaptive control of linear equations. **89a:93034**
Sun, Xi (*with* Shi, Wei) Discrete time adaptive control of MIMO systems with dead-zone nonlinearity. (Chinese. English summary) **89e:93144**
— (*with* Shi, Wei) Adaptive control of MIMO systems with piecewise nonlinearities. (Chinese. English summary) (Not in MR)
Suzuki, Masayuki *see* **Hamada, Kazuyasu, 89h:93033**
Świniarski, Roman Microcomputer application to adaptive time-optimal control. (Russian and Polish summaries) (Not in MR)
Sworder, D. D. (*with* Chou, D. S.) Passive adaptation in control system design. **89a:93035**
Tang, Yu Robust adaptive control. Averaging gradient algorithm. (*see* **89c:00031**)
Titli, A. *see* **Kamoun, M., 89k:93131**
Tomizuka, Masayoshi *see* **Chen, Ye-Hwa, 89a:93031** *and* **Zhang, Qiusheng,** (Not in MR)
Torkey, F. A. (*with* Walker, P. A. W.) Time optimal self-tuning controller. (Not in MR)
Tsyganov, V. V. A characteristic of and optimality of adaptive mechanisms. **89m:93051**
Tsypkin, Ya. Z. Optimal tuning algorithms in direct adaptive systems for the control of objects with delay. (Russian. English summary) **89c:93053**
Vályi, István Ellipsoidal approximations in problems of control. **89m:93050**
Van de Velde, Ph. G. A. *see* **De Keyser, R. M. C.; et al.,** (Not in MR)
Vdovin, A. Yu. Extension of a class of problems that admit restoration of a control with a guaranteed estimate from inexact information. (Russian) **89g:93059**
Vidyasagar, M. *see* **Ma, C. C. H., 89c:93051**
Vorchik, B. G. Limit properties of an adaptive control system with identification (application of identifiability equations). I. An object with one control input and one output. **89j:93072**
Walker, P. A. W. *see* **Torkey, F. A.,** (Not in MR)
Wang, Hong^4 (*with* Liu, Yu Qi) A study of adaptive robust control systems. (Chinese. English summary) **89j:93073**
— A series-parallel adaptive control system. (Chinese. English summary) **89k:93136**
— An adaptive robust control system—stability and robustness. (Chinese. English summary) **89g:93060**
Wei, Jian Guo *see* **Zhu, Zhi Xiang; et al., 89k:93138**
Wen, Changyun *see* **Hill, David J.; et al., 89m:93048**
Xu, Cheng Wei A novel pole-assignment self-tuning controller algorithm. (Chinese. English summary) **89m:93052**
Xu, Hong Yue (*with* Hu, Xi Heng) Robustness protection-time delay tracing adaptive control for varying time delay systems. (Chinese. English summary) **89b:93072**
Yakubovich, V. A. Adaptive stabilization of continuous linear objects. **89m:93053**
Yin, Yi Xin (*with* Shu, Di Qian; Liu, Hong Cai) Computer-aided design of multivariable self-tuning control and its application. (Chinese. English summary) **89j:93074**
Zhang, Cishen (*with* Evans, Robin J.) Rate constrained adaptive control. **89k:93137**
Zhang, Qiusheng (*with* Tomizuka, Masayoshi) Multirate sampling adaptive control and its application to thermal mixing systems. (Not in MR)
Zhou, Quan Gen *see* **Luo, Zong Qian, 89g:93055**
Zhu, Zhi Xiang (*with* Dai, Guan Zhong; Wei, Jian Guo) A self-tuning control system for an optical fiber drawing process. (Chinese. English summary) **89k:93138**
Zinkus, Rimvidas Adaptive control of a linear dynamic object based on parallel information processing. (Russian. English and Lithuanian summaries) **89d:93063**
Zinober, A. S. I. *see* **Burton, J. A.,** (Not in MR)

Items with secondary classifications in 93C40

Abutaleb, Ahmed S. An adaptive filter for noise cancelling. (Not in MR)
Abzianidze, D. V. *see* **Andreev, N. V.,** (Not in MR)
Ackermann, J. E. Design of robust controllers by multimodel methods. **89c:93040**
Andreev, N. V. (*with* Abzianidze, D. V.) A problem of the optimization of the broaching process in pipe rolling production. (Russian) (Not in MR)
Aubin, Jean-Pierre (*with* Frankowska, H.) Observabilité des systèmes sous incertitude. (English summary) [Observability of systems under uncertainty] **89e:93022**
Bacon, D. W. *see* **Tade, M. O.; et al., 89f:93024** *and* **89f:93025**
Bahnasawi, Ahmed A. *see* **Mahmoud, Magdi S., 89k:93187** *and* (Not in MR)
Bai, Er Wei Adaptive regulation of discrete time systems by switching control. **89e:93156**
— *see also* **Mason, J. E.; et al., 89i:93032**
Bao, Yuan L. *see* **Shieh, L. S.; et al., 89k:93231**
Baranov, V. V. (*with* Podtsykin, N. S.; Kharybin, N. I.) Optimal decision methods in controllable Markov systems with a nonobservable state. (Russian) **89d:93115**
Barnett, Stephen *see* **Mori, Takehiro, 89e:93176**
Bartolini, G. (*with* Zolezzi, T.) Asymptotic linearization of uncertain systems by variable structure control. **89a:93023**
Bastin, Georges (*with* Gevers, M.) Stable adaptive observers for nonlinear time-varying systems. **89e:93024**
Bayard, David S. (*with* Wen, John T.) New class of control laws for robotic manipulators. II. Adaptive case. (Not in MR)
Bayoumi, M. M. *see* **Tade, M. O.; et al., 89f:93024; 89f:93025** *and* **Mo, Li, 89k:93106**
Begovich, Ofelia (*with* Ortega, Romeo; Lozano Leal, Rogelio; Fernández, Guillermo) On the destabilizing effects of unmodeled plant delay in a simple adaptive controller: simulation and local stability results. (Not in MR)
Benzaouia, Abdellah (*with* Burgat, Christian) Stabilizing regulators for uncertain discrete-time linear systems. (French summary) **89e:93162**
Berger, C. S. Robust pole-placement algorithm for adaptive control. **89k:93100**
— *see also* **Lin, Shui Hsiu, 89e:93145**
Bernstein, Dennis S. (*with* Haddad, Wassim M.) The optimal projection equations with Petersen-Hollot bounds: robust stability and performance via fixed-order dynamic compensation for systems with structured real-valued parameter uncertainty. (Not in MR)
— *see also* **Haddad, Wassim M.,** (Not in MR)
Bertran, E. (*with* San-Martín, M.) Comparative study of different adaptive strategies for a robot joint control. **89b:93075**
Böcker, J. (*with* Hartmann, I.; Zwanzig, Ch.) ★ Nichtlineare und adaptive Regelungssysteme. (German) [Nonlinear and adaptive control systems] **89h:93001**
Bodson, M. *see* **Mason, J. E.; et al., 89i:93032**
Bodyanskiĭ, E. V. Synthesis of multidimensional adaptive regulators on the basis of a multilevel approach. (Russian) **89e:93083**
— Design of multidimensional pseudodual adaptive controllers. (Russian. English summary) **89e:93084**
— Design of a dual adaptive extremal controller. (Russian. English summary) **89g:93107**
Breinl, W. (*with* Leitmann, G.) State feedback for uncertain dynamical systems. **89a:93041**
Burgat, Christian *see* **Benzaouia, Abdellah, 89e:93162**
(**Byrnes, Christopher I.**) *see* **Modelling and adaptive control, 89c:93002**
Caines, Peter E. ★ Linear stochastic systems. **89f:93037**
Chai, Tian You Globally convergent self-tuning controllers. **89e:93231**
Chamilothoris, G. (*with* Renaud, P. Y.; Sévely, Y.; Vigie, P.) Adaptive predictive control of a multistage fermentation process. **89g:92008**
Chang, Fan Jên *see* **Shieh, L. S.; et al., 89k:93231**
Ch'ên, Po Hsien *see* **Chiang, Chiang-Cheng, 89e:93164**
Chen, Qing Quan *see* **Wu, Jie^2; et al., 89g:93065**

Chen, Ye-Hwa Decentralized robust output and estimated state feedback controls for large-scale uncertain systems. **89b:93015**
— Design of robust controllers for uncertain dynamical systems. **89e:93154**
— Decentralized robust control system design for large-scale uncertain systems. (Not in MR)
— Errata: "Deterministic control of large-scale uncertain dynamical systems" [J. Franklin Inst. 323 (1987), no. 2, 135–144; MR 88g:93012]. **89b:93016**
Cherchas, Dale B. *see* **Marchand, Pauline A.; et al.**, (Not in MR)
Cherkashin, M. Yu. *see* **Gachinskiĭ, È. E.**, **89e:93065**
Cheruy, A. *see* **Lakrori, M.**, **(89c:00031)**
Chiang, Chiang-Cheng (*with* Ch'ên, Po Hsien) Robust stabilization against nonlinear time-varying uncertainties. **89e:93164**
Chisci, Luigi High speed RLS parameter estimation by systolic-like arrays. (*see* **89g:93002**)
Chizeck, Howard J. *see* **Voss, G. I.; et al.**, (Not in MR)
Chotai, A. (*with* Owens, D. H.) Nonadaptative control of unknown multivariable systems. (Russian summary) **89e:93087**
Chuang, Yao T'ang (*with* Hsü, Chên Fa; Kuo, Tê Shêng; Wu, Chin Fu) Allowable perturbations for the stability robustness of systems with uncertain parameters. (Chinese summary) **89a:93040**
— *see also* **Wang, Shêng Tê; et al.**, **89a:93028**
Clarke, D. W. *see* **Liann, F. R.**, (Not in MR)
Cluett, W. R. (*with* Martín-Sánchez, J. M.; Shah, S. L.; Fisher, D. Grant) Stable discrete-time adaptive control in the presence of unmodeled dynamics. **89d:93074**
— (*with* Shah, S. L.; Fisher, D. Grant) Robustness analysis of discrete-time adaptive control systems using input-output stability theory: a tutorial. **89b:93097**
Collado, Joaquín M. (*with* Petersen, Ian R.) Correction to: "A stabilization algorithm for a class of uncertain linear systems" [Systems Control Lett. 8 (1987), no. 4, 351–357; MR 88e:93081] by Petersen. **89e:93165**
Cui, Ping Yuan *see* **Wu, Guang Yu**, (Not in MR)
Dahleh, Mohammed Sufficient information for the adaptive stabilization of delay systems. **89k:93163**
Dasgupta, Soura Adaptive identification of systems with polynomial parameterizations. (Not in MR)
Deng, Zi Li (*with* Wang, Jian Guo) A fictitious noise compensating technique of adaptive Kalman filtering for systems with model errors. (Chinese. English summary) (Not in MR)
Dion, J. M. *see* **Giri, F.; et al.**, **89e:93110**; **89k:93103**; **89k:93179** *and* (Not in MR)
Dugard, L. *see* **Giri, F.; et al.**, **89e:93110**; **89k:93103**; **89k:93179** *and* (Not in MR)
Dzieliński, Andrzej Real-time simulation of nonlinear quadratic Gaussian adaptive control system. (*see* **89g:00018**)
El-Sharkawy, Mohamed A. (*with* Peikari, Behrouz) Multistage adaptive stochastic filters. (Not in MR)
Emre, E. On globally stable adaptive stabilization/pole placement. **89c:93045**
Farison, J. B. *see* **Kolla, S. R.**, (Not in MR)
Feng, Suo Fu A generalized pole placement self-tuning controller for a class of multivariable systems. (Chinese. English summary) **89d:93048**
Fernández, Guillermo *see* **Begovich, Ofelia; et al.**, (Not in MR)
Ferreira, Pedro M. G. Optimal robust multi-purpose general feedback systems. (*see* **89c:00031**)
(Fielder, M.) *see* **Benzaouia, Abdellah**, **89e:93162**
Filaretov, V. F. *see* **Korzun, A. I.**, (Not in MR)
Fisher, D. Grant *see* **Cluett, W. R.; et al.**, **89b:93097** *and* **89d:93074**
Frankowska, H. *see* **Aubin, Jean-Pierre**, **89e:93022**
Fu, L.-C. *see* **Mason, J. E.; et al.**, **89i:93032**
Fusaoka, Akira (*with* Seki, Hirohisa; Takahashi, Kazuko) A description and reasoning of plant controllers in temporal logic. **89e:68105**
Gachinskiĭ, È. E. (*with* Cherkashin, M. Yu.) A system of continuous search optimization with identification. **89e:93065**
Gao, Wei Bing *see* **Shi, Zhi Cheng**, (Not in MR)
Gawthrop, P. J. (*with* Kharbouch, M.) Two-loop self-tuning cascade control. (Not in MR)
Gevers, M. *see* **Bastin, Georges**, **89e:93024**
Giri, F. (*with* M'Saad, M.; Dugard, L.; Dion, J. M.) Robustness of pole placement direct adaptive control for time-varying plants. **89k:93179**
— (*with* Dugard, L.; Dion, J. M.; M'Saad, M.) Stable pole placement direct adaptive control for systems with arbitrary zeros. **89e:93110**
— (*with* Dion, J. M.; M'Saad, M.; Dugard, L.) A globally convergent pole placement indirect adaptive controller. **89k:93103**
— (*with* Dion, J. M.; Dugard, L.; M'Saad, M.) Robust pole placement direct adaptive control. (Not in MR)
Goodwin, Graham C. *see* **de Souza, Carlos E.; et al.**, **89d:34130**
Gorelov, Yu. I. *see* **Vasil'ev, V. I.; et al.**, **89m:93045**
Gu, Xing Yuan (*with* Wang, Wei^5) On the stability of a self-tuning controller in the presence of bounded disturbances. **89m:93072**
Gusak, P. P. (*with* Sorkin, L. R.) Minimax function approximation by noisy observations under nonparametric uncertainty. (Russian summary) **89e:93207**
Haddad, Wassim M. (*with* Bernstein, Dennis S.) Robust reduced-order modeling via the optimal projection equations with Petersen-Hollot bounds. (Not in MR)
— *see also* **Bernstein, Dennis S.**, (Not in MR)
Han, Chong Zhao (*with* Wang, Li Qi; Wan, Bai Wu) A decomposition-coordination algorithm for multivariable self-tuning control. (Chinese. English summary) **89j:93078**
Hartmann, I. *see* **Böcker, J.; et al.**, **89h:93001**
Haussmann, U. G. Examples of optimal controls for linear stochastic control systems with partial observation. **89a:93057**
Hersh, M. A. Adaptive identification and control of time-varying stochastic systems using "semiperiodic" functions. **89b:93106**
Hogg, B. W. *see* **Wu, Q. H.**, (Not in MR)
Hollot, C. V. Bound invariant Lyapunov functions: a means for enlarging the class of stabilizable uncertain systems. **89f:93020**
Hsü, Chên Fa *see* **Wang, Shêng Tê; et al.**, **89a:93028** *and* **Chuang, Yao T'ang; et al.**, **89a:93040**
Hu, Ya Guang *see* **Li, Xi Guang**, **89g:93064** *and* **Yu, Ming**, (Not in MR)
Huang, Jian Zhong *see* **Yan, Ping Fan**, **89j:93149**
Huang, Yi Fu *see* **Liu, Mei Hua; et al.**, (Not in MR)
Hung, S. T. (*with* Kokotović, P. V.; Winkelman, J. R.) Self tuning of conflicting oscillatory modes: a case study. **89k:93120**
Hut, R. (*with* Olsder, Geert J.) An application of adaptive optimal control. **89i:93105**
Ioannou, P. A. (*with* Sun, J.) Theory and design of robust direct and indirect adaptive-control schemes. **89f:93014**
Irving, E. *see* **Najim, K.; et al.**, (Not in MR)
Ishchenko, A. A. (*with* Liberol', B. D.; Rudenko, O. G.) Investigation of the convergence of identification algorithms with memory. (Not in MR)
Ishihara, Hirokazu *see* **Konishi, Katsunobu; et al.**, (Not in MR)
Janecki, Dariusz Parameter convergence of adaptive control algorithms for plants with purely deterministic disturbances. (Russian and Polish summaries) **89k:93080**
— Stability analysis of Elliott's direct adaptive pole placement. **89m:93030**
Jiang, Chung Li Sufficient and necessary condition for the asymptotic stability of discrete linear interval systems. (Not in MR)
— *see also* **Kolla, S. R.**, (Not in MR) *and* **Karl, W. Clem**, (Not in MR)
Junkins, John L. *see* **Lim, K. B.**, **89b:93082**
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Karabutov, N. N. *see* **Salyga, V. I.**, **89k:93094**
Karl, W. Clem (*with* Verghese, George C.) Comments on: "Sufficient and necessary condition for the asymptotic stability of discrete linear interval systems" [Internat. J. Control 47 (1988), no. 5, 1563–1565] by C. L. Jiang. (Not in MR)
Katona, P. G. *see* **Voss, G. I.; et al.**, (Not in MR)
Kel'mans, G. K. Indirect adaptive noise-nonminimal-phase control of dynamic objects. (Russian. English summary) **89d:93107**
Kharbouch, M. *see* **Gawthrop, P. J.**, (Not in MR)
Khargonekar, Pramod P. *see* **Zhou, Kemin**, **89c:93061**
Kharybin, N. I. *see* **Baranov, V. V.; et al.**, **89d:93115**
Kirichenko, N. F. Algorithms for the adaptive control of manipulated robots. (Russian) **89k:70053**
Köchel, P. Optimal adaptive inventory control for a multi-location model with redistribution. **89j:90084**
Kokotović, P. V. *see* **Hung, S. T.; et al.**, **89k:93120**
Kolla, S. R. (*with* Farison, J. B.) Counter-examples to: "Sufficient and necessary condition for the asymptotic stability of discrete linear interval systems" [Internat. J. Control 47 (1988), no. 5, 1563–1565] by C. L. Jiang. (Not in MR)
Konishi, Katsunobu (*with* Maegawa, Kouji; Yoshimura, Toshio; Ishihara, Hirokazu) Multivariable discrete-time model reference adaptive control with input-smoothing property and its application. (Not in MR)
Kopeĭkin, S. V. *see* **Kurochkin, E. P.; et al.**, **89c:94018**
Korzun, A. I. (*with* Filaretov, V. F.) Identification of the changing load mass of a manipulated object. (Not in MR)
Kryazhimskiĭ, A. V. On the positional regularizing algorithms for control dynamical systems. **89b:49043**
Kumar, P. R. Recent advances in the theory of stochastic adaptive control. **89d:93119**
Kuntsevich, V. M. (*with* Lychak, M. M.) Control under indeterminacy conditions (synthesis of adaptive control systems). **89j:93028**
Kuo, Tê Shêng *see* **Wang, Shêng Tê; et al.**, **89a:93028**; **Chuang, Yao T'ang; et al.**, **89a:93040** *and* **Lin, Shui Hsiu**, **89e:93145**
Kurochkin, E. P. (*with* Muminov, N. A.; Kopeĭkin, S. V.) ★ Адаптивные методы обработки измерительной информации. (Russian) [Adaptive methods for processing of measuring information] **89c:94018**
Kurzhanskiĭ, A. B. On stochastic filtering approximations of estimation problems for systems with uncertainty. **89a:93047**
— *see also* **Modelling and adaptive control**, **89c:93002**
Lakrori, M. (*with* Cheruy, A.) Une commande nonlinéaire de bioprocédés fedbatch. (English summary) [A nonlinear control for fedbatch bioprocesses] (*see* **89c:00031**)
Lapa, V. G. Prediction of nonstationary random processes by adaptive combined methods. **89m:90050**
Lawrence, Peter D. *see* **Marchand, Pauline A.; et al.**, (Not in MR)
Leitmann, G. *see* **Breinl, W.**, **89a:93041**
Li, Tsu T'ien *see* **Wang, Wen June**, **89f:34076**
Li, Xi Guang (*with* Hu, Ya Guang) A trajectory-tracking control scheme for robotic manipulators. (Chinese. English summary) **89g:93064**
Liann, F. R. (*with* Clarke, D. W.) Application of explicit criterion minimization in adaptive control. (Not in MR)
Liberol', B. D. *see* **Ishchenko, A. A.; et al.**, (Not in MR)
Lilly, John H. Stability of a class of adaptive observers subject to unmodeled dynamics. (*see* **89b:93008**)
Lim, K. B. (*with* Junkins, John L.) Probability of stability: new measures of stability robustness for linear dynamical systems. **89b:93082**
Lin, Shui Hsiu (*with* Kuo, Tê Shêng) Comments on: "A simple sufficient condition for the stability of linear discrete time systems" [Internat. J. Control 35 (1982), no. 6, 1073–1080; MR 84a:93053a] by C. S. Berger. **89e:93145**
Lin, Wei^2 *see* **Liu, Mei Hua; et al.**, (Not in MR)
Lin, Yu-Hwan *see* **Wang, Shêng Tê; et al.**, **89a:93028**
Linkens, D. A. *see* **Mansour, N. E.**, **89i:93083**
Liu, Hong Cai *see* **Wang, Jing; et al.**, (Not in MR)
Liu, Mei Hua (*with* Lin, Wei^2; Huang, Yi Fu) A decentralized self-tuning controller with gravity compensation for robotic manipulators. (Chinese. English summary) (Not in MR)
Lozano Leal, Rogelio *see* **Begovich, Ofelia; et al.**, (Not in MR)
Luo, Qi Xia *see* **Wu, Jie^2; et al.**, **89g:93065**
Lychak, M. M. *see* **Kuntsevich, V. M.**, **89j:93028**
Ma, Yu Xu (*with* Wu, Jie^2) An LQG self-tuning controller. (Chinese. English summary) (Not in MR)
Maegawa, Kouji *see* **Konishi, Katsunobu; et al.**, (Not in MR)
Magaña, Mario E. (*with* Żak, S. H.) Robust state feedback stabilization of discrete-time uncertain dynamical systems. **89e:93167**

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Malinowski, Krzysztof Decentralised adaptive controllers for robotic manipulators. (Russian and Polish summaries) **89d:93067**

Mansour, N. E. (*with* Linkens, D. A.) Pole-assignment self-tuning control of blood pressure in postoperative patients: a simulation study. **89i:93083**

Marchand, Pauline A. (*with* Lawrence, Peter D.; Cherchas, Dale B.) A discrete-time optimal adaptive control law for a robot arm. (Not in MR)

Mårtensson, Bengt Adaptive stabilization of general, multivariable, continuous- or discrete-time linear systems. (*see* **89b:93008**)

— Dynamic high-gain stabilization of multivariate linear systems, with application to adaptive control. **89j:93090**

— Adaptive stabilization without high-gain. **89i:93092**

Martín-Sánchez, J. M. *see* **Cluett, W. R.; et al., 89d:93074**

Mason, J. E. (*with* Bai, Er Wei; Fu, L.-C.; Bodson, M.; Sastry, S. Shankar) Analysis of adaptive identifiers in the presence of unmodeled dynamics: averaging and tuned parameters. **89i:93032**

Mayne, D. Q. *see* **de Souza, Carlos E.; et al., 89d:34130**

Mo, Li (*with* Bayoumi, M. M.) A novel approach to the explicit pole assignment self-tuning controller design. **89k:93106**

Mori, Takehiro (*with* Barnett, Stephen) On stability tests for some classes of dynamical systems with perturbed coefficients. **89e:93176**

M'Saad, M. *see* **Giri, F.; et al., 89e:93110**; **89k:93103**; **89k:93179** *and* (Not in MR)

Muminov, N. A. *see* **Kurochkin, E. P.; et al., 89c:94018**

Nagahama, Kazuo *see* **Tamura, Hiroyuki**, (Not in MR)

Najim, K. (*with* Youlal, H.; Irving, E.; Najim, M.) Linear quadratic self-tuning control of a liquid-liquid extraction column. (Not in MR)

Najim, M. *see* **Najim, K.; et al.**, (Not in MR)

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Olsder, Geert J. *see* **Hut, R., 89i:93105**

Omani, F. K. Adaptive pole-placement control with filtered states and steady-state disturbance rejection. **89k:93229**

Ortega, Romeo *see* **Begovich, Ofelia; et al.**, (Not in MR)

Owens, D. H. *see* **Chotai, A., 89e:93087**

Palaniswami, M. *see* **de Souza, Carlos E.; et al., 89d:34130**

Pan, Ji Qin *see* **Zhang, Yun, 89c:93044**

Pan, Ya Ming (*with* Zhao, Xiao Ming) The use of the "partitioned matrix method" for the fast calculation of the pole placement adaptive control law. (Chinese. English summary) **89c:93046**

Peikari, Behrouz *see* **El-Sharkawy, Mohamed A.**, (Not in MR)

Perov, A. I. Adaptation of linear filtering systems. (Not in MR)

Petersen, Ian R. Some new results on algebraic Riccati equations arising in linear quadratic differential games and the stabilization of uncertain linear systems. **89h:90274**

— *see also* **Collado, Joaquín M., 89e:93165**

Podtsykin, N. S. *see* **Baranov, V. V.; et al., 89d:93115**

Polderman, J. W. Avoiding the nonadmissible region of the parameter space in indirect adaptive control algorithms. (*see* **89c:00031**)

— A state space approach to the problem of adaptive pole assignment. **89j:93051**

Polunin, I. A. Adaptive control of a nonminimal-phase linear discrete object. (Russian. English summary) **89d:93084**

Prokopenko, A. A. Active systems with monotonically connected criteria of center and elements under conditions of uncertainty. (Russian. English summary) **89a:93009**

Pushkin, M. M. *see* **Nosov, V. R., 89j:49030**

Qi, Xiao-Jiang Adaptive prediction for ARMA processes with Markov switching parameters. **89b:93101**

Radenković, Miloje S. Convergence of the generalized dual control algorithm. **89e:93233**

Rafatov, R. R. Optimal control of a process of particle transport under incomplete measurement. (Russian) **89e:93149**

Renaud, P. Y. *see* **Chamilothoris, G.; et al., 89g:92008**

Rishel, Raymond Warren A nonlinear discrete time stochastic adaptive control problem. **89e:93227**

Romanenko, V. D. Optimal adaptive control of nonlinear multidimensional technological plants with an estimation of parameters and state variables. (Russian) (Not in MR)

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Saberi, A. (*with* Sannuti, P.) Global stabilization with almost disturbance decoupling of a class of uncertain nonlinear systems. **89b:93089**

Salyga, V. I. (*with* Karabutov, N. N.) The method of φ-algorithms, and its application in control problems. (Russian) **89k:93094**

San-Martín, M. *see* **Bertran, E., 89b:93075**

Sannuti, P. *see* **Saberi, A., 89b:93089**

Saridis, George N. Entropy formulation of optimal and adaptive control. **89j:93144**

Sastry, S. Shankar *see* **Mason, J. E.; et al., 89i:93032**

Scattolini, Riccardo Self-tuning control of systems with infrequent and delayed output sampling. **89j:93145**

Schmitendorf, W. E. Stabilizing controllers for uncertain linear systems with additive disturbances. **89d:93085**

Seki, Hirohisa *see* **Fusaoka, Akira; et al., 89e:68105**

de la Sen, Manuel A robust indirect discrete adaptive-control approach based on passivity results for nonlinear systems. **89e:93075**

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Sévely, Y. *see* **Chamilothoris, G.; et al., 89g:92008**

Shah, S. L. *see* **Cluett, W. R.; et al., 89b:93097** *and* **89d:93074**

Shao, Shi Huang Fuzzy self-organizing controller and its application for dynamic processes. **89c:93043**

Shi, Zhi Cheng (*with* Gao, Wei Bing) Stability of interval parameter matrices. (Chinese) (Not in MR)

Shieh, L. S. (*with* Bao, Yuan L.; Chang, Fan Jên) State-space self-tuning regulators for general multivariable stochastic systems. **89k:93231**

Shil'man, S. V. Limitingly optimal filtering: adaptive Kalman-Wiener filters. **89d:93105**

Shu, Di Qian *see* **Wang, Jing; et al.**, (Not in MR)

Silaev, A. I. A filter with regular covariations and the minmax principle in the problem of movement determination using measurements of pseudorandom informational fields. (Russian summary) **89e:93200**

Söderström, Torsten (*with* Stoica, Petre) On some system identification techniques for adaptive filtering. **89b:93111**

Sorkin, L. R. *see* **Gusak, P. P., 89e:93207**

Soto, J. C. *see* **de la Sen, Manuel**, (Not in MR)

de Souza, Carlos E. (*with* Goodwin, Graham C.; Mayne, D. Q.; Palaniswami, M.) An adaptive control algorithm for linear systems having unknown time delay. **89d:34130**

Steinberg, A. M. A sufficient condition for output feedback stabilization of uncertain dynamical systems. **89e:93168**

Stoica, Petre *see* **Söderström, Torsten, 89b:93111**

Su, Chun Yi *see* **Zhong, Mu Liang, 89g:93049**

Sun, J. *see* **Ioannou, P. A., 89f:93014**

Tade, M. O. (*with* Bayoumi, M. M.; Bacon, D. W.) Self-tuning controller design for systems with arbitrary time delays. I. Theoretical development. **89f:93024**

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Takahashi, Kazuko *see* **Fusaoka, Akira; et al., 89e:68105**

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Tomizuka, Masayoshi On a relaxation of SPR condition in parallel MRAS—continuous-time case. (Not in MR)

Tsui, Chia-Chi New approach to robust observer design. **89d:93017**

Unny, T. E. *see* **Thavaneswaran, A., 89d:93098**

Usachev, E. S. Mathematical theory of adaptation and the uniform ergodic theorem for operators in a Banach lattice. (Russian) **89b:93098**

Usmanov, Z. D. *see* **Vasil'ev, V. I.; et al., 89m:93045**

Vardulakis, A. I. G. Necessary and sufficient condition for stability robustness under known additive perturbation. **89b:93084**

Vasil'ev, V. I. (*with* Gorelov, Yu. I.; Usmanov, Z. D.) Synthesis of optimal simulational control in systems with cyclic technology. **89m:93045**

Verghese, George C. *see* **Karl, W. Clem**, (Not in MR)

Vigie, P. *see* **Chamilothoris, G.; et al., 89g:92008**

Vitkutė, Daiva *see* **Kaminskas, Vytautas**, (Not in MR)

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Wan, Bai Wu *see* **Han, Chong Zhao; et al., 89j:93078**

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Wang, Jian Guo *see* **Deng, Zi Li**, (Not in MR)

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Wang, Wei^{5} *see* **Gu, Xing Yuan, 89m:93072**

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Wen, John T. *see* **Bayard, David S.**, (Not in MR)

Winkelman, J. R. *see* **Hung, S. T.; et al., 89k:93120**

Wu, Bao Liang *see* **Wang, Jing; et al.**, (Not in MR)

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Yan, Wei Yong *see* **Wang, En Ping, 89a:93016**

Yang, Gong Pu *see* **Tang, Jian Zhong; et al.**, (Not in MR)

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Yoshimura, Toshio *see* **Konishi, Katsunobu; et al.**, (Not in MR)

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Żak, S. H. *see* **Magaña, Mario E., 89e:93167** *and* (Not in MR)
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Zhang, Lu *see* **Yi, Yun Wen**, (**89g:00018**)
Zhang, Yun (*with* Pan, Ji Qin) An improvement on the adaptive model following control. (Chinese. English summary) **89c:93044**
Zhao, Hou Jin A globally stable algorithm for MIMO self-tuning controllers. (Chinese) **89g:93083**
Zhao, Xiao Ming *see* **Pan, Ya Ming, 89c:93046**
Zheng, Fu Jian *see* **Wang, Jing; et al.**, (Not in MR)
Zhong, Mu Liang (*with* Su, Chun Yi) A multivariable pole-assignment self-tuning dynamic decoupling controller. (Chinese. English summary) **89g:93049**
Zhou, Kemin (*with* Khargonekar, Pramod P.) Robust stabilization of linear systems with norm-bounded time-varying uncertainty. **89c:93061**
Zolezzi, T. *see* **Bartolini, G., 89a:93023**
Zwanzig, Ch. *see* **Böcker, J.; et al., 89h:93001**

Items listed otherwise than by author

Conference:
Modelling and Adaptive Control ★ Modelling and adaptive control. **89c:93002**
Lecture Notes in Control and Information Sciences ★ Modelling and adaptive control. **89c:93002**
Modelling and adaptive control ★ Modelling and adaptive control. **89c:93002**
Sopron ★ Modelling and adaptive control. **89c:93002**

93C45 Time-invariant

Items with secondary classifications in 93C45

Bhattacharyya, Shankar Prashad (*with* Keel, L. H.; Howze, J. W.) Stabilization of linear systems with fixed order controllers. **89b:93086**
Conte, Giuseppe (*with* Moog, Claude H.; Perdon, A.-M.) Un théorème sur la représentation entrée-sortie d'un système non linéaire. (English summary) [A theorem on the input-output representation of a nonlinear system] **89j:93017**
Desoer, C. A. (*with* Gündeş, A. N.) Algebraic theory of linear time-invariant feedback systems with two-input two-output plant and compensator. **89c:93027**
Feintuch, A. (*with* Francis, B. A.) Minimal sensitivity for linear time varying systems. **89c:93038**
Francis, B. A. *see* **Feintuch, A., 89c:93038**
Geerts, A. H. W. ★ A new method to determine the infinite zero structure of a linear time-invariant system. **89e:93030**
Gündeş, A. N. *see* **Desoer, C. A., 89c:93027**
Howze, J. W. *see* **Bhattacharyya, Shankar Prashad; et al., 89b:93086**
Keel, L. H. *see* **Bhattacharyya, Shankar Prashad; et al., 89b:93086**
Minyuk, S. A. On the theory of the controllability and feasibility of linear stationary differential-difference systems. (Russian) **89i:49025**
Moog, Claude H. *see* **Conte, Giuseppe; et al., 89j:93017**
Özveren, Cüneyt M. (*with* Verghese, George C.; Willsky, Alan S.) Asymptotic orders of reachability in perturbed linear systems. **89g:49052**
Pełczewski, Jerzy Computation of the straightforward solution of some linear state equation. (Russian summary) **89c:93047**
Perdon, A.-M. *see* **Conte, Giuseppe; et al., 89j:93017**
Petrov, V. P. *see* **Vyazovik, A. P., 89e:93028**
de la Sen, Manuel A Lyapunov-Poincaré stability analysis for nonperiodic sampling systems. **89b:93096**
Verghese, George C. *see* **Özveren, Cüneyt M.; et al., 89g:49052**
Vyazovik, A. P. (*with* Petrov, V. P.) A nonlinear control-observation problem. (Russian) **89e:93028**
Wang, En Ping (*with* Yan, Wei Yong) On the strictly positive real lemma. (Chinese summary) **89a:93016**
Willems, J. C. From time series to linear system. I. Finite-dimensional linear time invariant systems. **89b:93112**
— From time series to linear system. III. Approximate modelling. **89b:93114**
Willsky, Alan S. *see* **Özveren, Cüneyt M.; et al., 89g:49052**
Yan, Wei Yong *see* **Wang, En Ping, 89a:93016**

93C50 Time-dependent

Köksal, Muhammed Exhaustive study on the commutativity of time-varying systems. **89b:93073**

Items with secondary classifications in 93C50

Arsene, Gr. (*with* Ceauşescu, Zoia; Constantinescu, T.) Schur analysis of some completion problems. **89k:47010**
Badawi, Faris A. (*with* Lindquist, Anders) A stochastic realization approach to the discrete-time Mayne-Fraser smoothing formula. **89d:93110**
Ceauşescu, Zoia *see* **Arsene, Gr.; et al., 89k:47010**
Chen, Ye-Hwa Decentralized robust output and estimated state feedback controls for large-scale uncertain systems. **89b:93015**
Chuang, Yao T'ang (*with* Hsü, Chên Fa; Kuo, Tê Shêng; Wu, Chin Fu) Allowable perturbations for the stability robustness of systems with uncertain parameters. (Chinese summary) **89a:93040**
Constantinescu, T. *see* **Arsene, Gr.; et al., 89k:47010**
Dannon, Vitali C. (*with* Kartsatos, Athanassios G.) The controllability of a quasilinear functional-differential system. **89e:93017**
Feintuch, A. (*with* Francis, B. A.) Minimal sensitivity for linear time varying systems. **89c:93038**
Francis, B. A. *see* **Feintuch, A., 89c:93038**
Gerencsér, László Parameter tracking of time-varying continuous-time linear stochastic systems. (*see* **89b:93008**)
Gilbert, E. G. *see* **Keerthi, S. S., 89d:93082**
Grasse, Kevin A. Sufficient conditions for the functional reproducibility of time-varying, input-output systems. **89c:93014**
Hersh, M. A. Adaptive identification and control of time-varying stochastic systems using "semiperiodic" functions. **89b:93106**
Hsü, Chên Fa *see* **Chuang, Yao T'ang; et al., 89a:93040**
Hu, Xi Heng *see* **Xu, Hong Yue, 89b:93072**
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Kamen, Edward W. The poles and zeros of a linear time-varying system. **89e:93113**
— *see also* **Poolla, K. R.; et al., 89d:93020**
Kartsatos, Athanassios G. *see* **Dannon, Vitali C., 89e:93017**
Keerthi, S. S. (*with* Gilbert, E. G.) Optimal infinite-horizon feedback laws for a general class of constrained discrete-time systems: stability and moving-horizon approximations. **89d:93082**
Khargonekar, Pramod P. *see* **Poolla, K. R.; et al., 89d:93020**
Kuo, Tê Shêng *see* **Chuang, Yao T'ang; et al., 89a:93040**
Lindquist, Anders *see* **Badawi, Faris A., 89d:93110**
Luo, Xu Cheng The symmetric partitioning expression for a covariance matrix and its application. (Chinese. English summary) (Not in MR)
Millnert, Mille Identification of ARX models with Markovian parameters. **89a:93055**
Poolla, K. R. (*with* Kamen, Edward W.; Khargonekar, Pramod P.) Polynomial and stable-proper factorizations of transfer-function matrices for linear time-varying systems. **89d:93020**
Ramarajan, S. L_2-stability of linear time-varying systems: conditions on derivatives. (Not in MR)
Sadykov, F. R. A graphical frequency criterion for L_2-stability for multidimensional nonstationary dynamical systems. **89e:93134**
Świerkosz, M. *see* **Kaczorek, T., 89j:93019**
Wu, Chin Fu *see* **Chuang, Yao T'ang; et al., 89a:93040**
Wu, Jing Bo Some results on infinite-dimensional realization theory. **89d:93021**
Xu, Hong Yue (*with* Hu, Xi Heng) Robustness protection-time delay tracing adaptive control for varying time delay systems. (Chinese. English summary) **89b:93072**
Yaz, Engin Design of observers for nonlinear time-varying systems. **89e:93029**

93C55 Discrete-time

Amin, M. H. *see* **Elabdalla, A. M., 89m:93054**
(Berger, C. S.) *see* **Lin, Shui Hsiu, 89e:93145**
Bien, Zeungnam *see* **Kim, Young Seog**, (Not in MR)
Bistrickas, V. Approximate solution of a discrete control optimization problem. **89k:93139**
Cerrada, C. *see* **Feliu, V.; et al.**, (Not in MR)
Cerrada, J. A. *see* **Feliu, V.; et al.**, (Not in MR)
Chang, Kun Soo *see* **Lee, Kwang Soon**, (Not in MR)
Ch'ên, Ch'i Chung *see* **Huang, Ch'i; et al., 89k:93140**
Desrochers, Alan A. *see* **Diaz, Hernando**, (Not in MR)
Diaz, Hernando (*with* Desrochers, Alan A.) Modeling of nonlinear discrete-time systems from input-output data. (Not in MR)
Doležal, Jaroslav Optimal control discrete-time systems. (*see* **89f:00029**)
Elabdalla, A. M. (*with* Amin, M. H.) Minimum-gain minimum-time deadbeat controllers. **89m:93054**
Engwerda, Jacob Christiaan ★ Regulation of linear discrete time-varying systems. **89g:93061**
Feliu, V. (*with* Cerrada, J. A.; Cerrada, C.) An algorithm for obtaining a multiperiodic discrete system from the corresponding discrete system. (Spanish) (Not in MR)
Hinamoto, Takao *see* **Shimonishi, Jiro; et al., 89m:93056**
Huang, Ch'i (*with* Ch'ên, Ch'i Chung; Shih, Yen P'ing) Analysis and optimal control of discrete time-varying systems via Hahn polynomials. (Chinese summary) **89k:93140**
Hughes, Peter C. (*with* McTavish, Donald J.) Stability of discrete-time attitude control systems. (Not in MR)
Ignatenko, V. N. (*with* Strakhova, N. V.) The number of switchings that are time optimal and fuel efficient of controls of linear discrete systems. (Russian) (Not in MR)
Inaba, Hiroshi *see* **Wakayama, Takeshi, 89k:93142**
Kaczorek, T. (*with* Świerkosz, M.) Coefficient assignment using periodic feedback for general model of 2-D systems. **89m:93055**
— The singular general model of 2-D systems and its solution. (Not in MR)
Kazlauskas, K. The theory of discrete periodic systems. **89d:93064**
Kim, Young Seog (*with* Bien, Zeungnam) Two stable MRAC algorithms for linear discrete-time multivariable plants. (Not in MR)
Kovchin, S. A. Analysis of component errors in discrete automatic control systems. (Russian) **89i:93077**
Kuo, Tê Shêng *see* **Lin, Shui Hsiu, 89e:93145**
Lee, Kwang Soon (*with* Chang, Kun Soo) Discrete-time modelling of distributed parameter systems for state estimator design. (Not in MR)
Lin, Shui Hsiu (*with* Kuo, Tê Shêng) Comments on: "A simple sufficient condition for the stability of linear discrete time systems" [Internat. J. Control **35** (1982), no. 6, 1073–1080; MR 84a:93053a] by C. S. Berger. **89e:93145**
Ma, Wan Biao A comparison principle for solutions of discrete systems and its application in the theory of stability. (Chinese) (Not in MR)
Maekawa, Sadao *see* **Shimonishi, Jiro; et al., 89m:93056**
Mansimov, K. B. Singular controls in discrete systems with delay. (Russian) **89h:93037**
McTavish, Donald J. *see* **Hughes, Peter C.**, (Not in MR)
Naidu, D. S. (*with* Price, D. B.) Singular perturbation and time scale approaches in discrete control systems. (Not in MR)
Odintsova, E. A. An algorithm for the control of a linear dynamic object with constraints on the rate of change and on the sum of the components of the control vector. (Russian) (*see* **89f:93002**)

Pham Tran Nhu Optimal control of discrete time stochastic systems with quadratic costs. **89g:93062**

Price, D. B. *see* **Naidu, D. S.**, (Not in MR)

Rocha, P. (*with* Willems, J. C.) Deterministic Markovian 2-D systems. **89g:93063**

Shih, Yen P'ing *see* **Huang, Ch'i; et al.**, **89k:93140**

Shimonishi, Jiro (*with* Hinamoto, Takao; Maekawa, Sadao) Inversion for 2-D systems. **89m:93056**

Strakhova, N. V. *see* **Ignatenko, V. N.**, (Not in MR)

Świerkosz, M. *see* **Kaczorek, T.**, **89m:93055**

Vinter, R. B. Optimality and sensitivity of discrete time processes. (Russian and Polish summaries) **89k:93141**

Wakayama, Takeshi (*with* Inaba, Hiroshi) Disturbance rejection of linear control systems defined over the real polynomial ring **R**[λ]. **89k:93142**

Willems, J. C. *see* **Rocha, P.**, **89g:93063**

Items with secondary classifications in 93C55

Agathoklis, P. Lower bounds for the stability margin of discrete two-dimensional systems based on the two-dimensional Lyapunov equation. **89d:93070**

— The Lyapunov equation for n-dimensional discrete systems. (Not in MR)

Ahson, S. I. *see* **Prasad, R.; et al.**, **89j:93012**

Albertini, Francesca (*with* Runggaldier, Wolfgang J.) Logarithmic transformations for discrete-time, finite-horizon stochastic control problems. **89m:49044**

Al-Fuhaid, A. S. *see* **Bahnasawi, Ahmed A.; et al.**, **89i:93085**

Algoet, Paul H. (*with* Cover, Thomas M.) Asymptotic optimality and asymptotic equipartition properties of log-optimum investment. **89h:90025**

Aly, G. (*with* Badr, A.; Binder, Z.) Multi-model control of MIMO systems: location and control algorithms. (Not in MR)

Amin, M. H. (*with* Hassan, M. M.) Time-optimal output regulators for linear multivariable discrete-time systems. II. All classes of right-invertible systems. **89k:93050**

— (*with* Elabdalla, A. M.) Parametrization of a class of deadbeat controllers via the theory of decoupling. (Not in MR)

— *see also* **Hassan, M. M.**, **89k:93049**

Amman, Hans M. (*with* Jager, Henk) Constrained control algorithm for nonlinear control problems. **89h:93027**

Arapostathis, Aristotle *see* **Yong, Jiong Min**, **89g:93076**

Arzola Ruiz, José A new approach to the problem of the coordination of direction in discrete hierarchical systems. (Spanish. English summary) **89i:92064**

Astakhov, N. D. (*with* Kaliev, E. Zh.) A dynamic problem of water resource distribution and the modification of successive calculation algorithms for its solution. (Russian. Kazakh summary) **89g:90137**

Badawi, Faris A. (*with* Lindquist, Anders) A stochastic realization approach to the discrete-time Mayne-Fraser smoothing formula. **89d:93110**

— Stochastic realizations of a discrete-time nonstationary process. **89j:93016**

Badr, A. *see* **Aly, G.; et al.**, (Not in MR)

Bahnasawi, Ahmed A. (*with* Al-Fuhaid, A. S.; Mahmoud, Magdi S.) Linear feedback approach to the stabilisation of uncertain discrete systems. **89i:93085**

— *see also* **Mahmoud, Magdi S.**, **89e:93175**; **89k:93187** *and* (Not in MR)

Bai, Er Wei Adaptive regulation of discrete time systems by switching control. **89e:93156**

Bakan, G. M. (*with* Volosov, V. V.) On the solution of the problem of the design of a system of programmed control when the noise in the channel of measurement is bounded in modulus. (Russian) **89d:93041**

Banaszuk, A. (*with* Kocięcki, M.; Przyłuski, K. M.) Remarks on controllability of implicit linear discrete-time systems. **89c:93008**

Barabanov, N. E. On the Lyapunov exponent of discrete inclusions. III. **89m:34060**

Baranov, V. V. (*with* Podtsykin, N. S.; Kharybin, N. I.) Optimal decision methods in controllable Markov systems with a nonobservable state. (Russian) **89d:93115**

Baras, J. S. An optimization problem from linear filtering with quantum measurements. **89g:93094**

Beale, Guy O. *see* **Polites, Michael E.**, (Not in MR)

Beelen, Th. G. J. (*with* Van Dooren, Paul) A numerical method for deadbeat control of generalized state-space systems. **89b:93062**

Bencsik, I. (*with* Michaletzky, György) Generalized least squares innovation representation. (*see* **89d:00007**)

Benzaid, Z. (*with* Lutz, D. A.) Constrained controllability of perturbed discrete-time systems. **89i:49027**

Benzaouia, Abdellah (*with* Burgat, Christian) Regulator problem for linear discrete-time systems with nonsymmetrical constrained control. **89i:93045**

— (*with* Burgat, Christian) Stabilizing regulators for uncertain discrete-time linear systems. (French summary) **89e:93162**

— (*with* Burgat, Christian) The regulator problem for a class of linear systems with constrained control. **89d:93042**

Bernussou, J. *see* **Geromel, J. C.**, **89c:93007**

Bidyuk, P. I. An algorithm for order reduction of an autoregression model of a moving average. (Russian) **89k:93045**

Billings, S. A. (*with* Korenberg, M. J.; Chen, Sheng^2) Identification of nonlinear output-affine systems using an orthogonal least-squares algorithm. (Not in MR)

— *see also* **Leontaritis, I. J.**, **89b:93100** *and* **Chen, Sheng^2**, **89k:93208**

Bily, Barbara Optimal control problem for first Fornasini-Marchesini model of 2-D systems. **89m:49059**

Binder, Z. *see* **Aly, G.; et al.**, (Not in MR)

Bisiacco, Mauro (*with* Fornasini, Ettore; Marchesini, Giovanni) 2-D partial fraction expansions and minimal commutative realizations. **89k:93046**

Bitmead, Robert R. *see* **Mareels, I. M. Y.**, **89e:93142**

Bitsoris, G. Positively invariant polyhedral sets of discrete-time linear systems. **89d:93031**

— *see also* **Vassilaki, M.; et al.**, (Not in MR)

Boĭchuk, L. M. Invariant filtering of discrete processes. (Not in MR)

Boite, René (*with* Kunt, Murat) ★ Traitement de la parole. (French) [Speech processing] **89f:94001**

Bortakovskiĭ, A. S. *see* **Panteleev, A. V.**, (**89j:34002**)

Brown, David P. *see* **Wu, Jinn-Wen**, (Not in MR)

de Brucq, D. (*with* Panzarella, L.; Rakotopara, D.) Observation d'un système non linéaire. (English summary) [Observation of a nonlinear system] (Not in MR)

Brusin, V. A. Estimates for the output processes of stochastic discrete relay systems of a certain class. **89a:93045**

Burev, D. D. Analytic solution of a general nonlinear optimal control problem. (Russian) **89g:49046**

Burgat, Christian *see* **Benzaouia, Abdellah**, **89d:93042**; **89e:93162** *and* **89i:93045**

Carotenuto, L. (*with* Muraca, P.; Raiconi, G.) Observation strategy for a parallel connection of discrete-time linear systems. **89m:93080**

Castelein, R. (*with* Johnson, Alan) Constrained optimal control. **89k:93041**

Chao, Yung-Cheng *see* **Huang, Hsiao-Ping; et al.**, (Not in MR)

Chen, Cheng-Liang *see* **Huang, Hsiao-Ping; et al.**, (Not in MR)

Chen, Han Fu (*with* Guo, Lei) Adaptive control via consistent estimation for deterministic systems. **89b:93068**

— (*with* Guo, Lei) Robust identification of discrete-time stochastic systems. **89j:93125**

— (*with* Guo, Lei) A robust stochastic adaptive controller. **89i:93071**

Chen, Hui Xin (*with* Ruan, Rong Yao) Strong consistency and convergence rate of extended least squares method. **89e:93203**

Chen, Sheng^2 (*with* Billings, S. A.) Recursive maximum likelihood identification of a nonlinear output-affine model. **89k:93208**

— *see also* **Billings, S. A.; et al.**, (Not in MR)

Chen, You Gen (*with* Wang, Ru Qu) Optimal incomplete state feedback control for discrete systems. (Chinese. English summary) (Not in MR)

Chentsov, A. G. *see* **Ivanov, V. M.**, **89c:90120**

Cherchas, Dale B. *see* **Marchand, Pauline A.; et al.**, (Not in MR)

Cherkasova, L. A. (*with* Kotov, V. E.) On properties of nets for modelling of systems and generalized processes. **89c:68028**

Chikriĭ, A. A. *see* **Khomin, A. V.**, **89c:90124**

Chizeck, Howard J. *see* **Ji, Yuandong**, **89g:93111** *and* **89k:93224**

Christensen, G. S. *see* **Soliman, S. A.**, **89e:93151**

Cluett, W. R. (*with* Martín-Sánchez, J. M.; Shah, S. L.; Fisher, D. Grant) Stable discrete-time adaptive control in the presence of unmodeled dynamics. **89d:93074**

— (*with* Shah, S. L.; Fisher, D. Grant) Robustness analysis of discrete-time adaptive control systems using input-output stability theory: a tutorial. **89b:93097**

— Some comments on the use of normalization in robust adaptive control. **89k:93129**

Conte, Giuseppe (*with* Perdon, A.-M.) A geometric approach to the theory of 2-D systems. **89g:93028**

Cooper, J. E. *see* **Juang, J.-N.; et al.**, (Not in MR)

Cover, Thomas M. *see* **Algoet, Paul H.**, **89h:90025**

Dahleh, Mohammed (*with* Dahleh, Munther A.) A class of adaptive controllers with application to robust adaptive control. **89k:93130**

Dahleh, Munther A. (*with* Pearson, J. Boyd, Jr.) Minimization of a regulated response to a fixed input. (Not in MR)

— *see also* **Dahleh, Mohammed**, **89k:93130**

Dai, Guan Zhong *see* **Zhu, Zhi Xiang; et al.**, **89k:93138**

Darkhovskiĭ, B. S. Conditions for the structural stability of a locally optimal stabilization system. **89f:93036**

De Abreu-Garcia, Jose A. (*with* Fairman, F. W.) Balanced realization via permutation symmetric Jordan realizations. **89k:93033**

Deng, Zi Li (*with* Wang, Jian Guo) A fictitious noise compensating technique of adaptive Kalman filtering for systems with model errors. (Chinese. English summary) (Not in MR)

Desai, U. B. *see* **King, A. M.; et al.**, **89e:93181**

Đinh Sĩ Đại *see* **Phan Huy Khai**, **89c:90126**

Dion, J. M. *see* **Giri, F.; et al.**, **89k:93103**

Doraiswami, R. On-line identification scheme using adaptive filters. **89e:93205**

— *see also* **Jiang, Jin**, **89k:93064**

Drăgan, Vasile Model reduction for exponential stability of systems of nonlinear differential equations coupled with nonlinear difference equations with small step-size. **89d:93022**

Duan, Guang Ren (*with* Wu, Guang Yu; Huang, Wen Hu) Analysis of the robust stability of a discrete pole assignment control system. (Chinese. English summary) **89m:93032**

Dugard, L. *see* **Giri, F.; et al.**, **89k:93103**

Dunn, J. C. *see* **Gawande, M.**, **89h:90198**

Eid, Shawki Z. *see* **Mahmoud, Magdi S.**, **89b:90084**

Elabdalla, A. M. *see* **Amin, M. H.**, (Not in MR)

Eldem, Vasfi *see* **Selbuz, Hasan**, **89i:93094**

Endrikat, C. (*with* Hartmann, I.) Optimal design of discrete-time MIMO systems in the frequency domain. (Not in MR)

Evans, M. E. Pole-assignment with periodic output feedback: computer assisted study on a 2-dimensional linear system. **89k:93102**

Fairman, F. W. *see* **De Abreu-Garcia, Jose A.**, **89k:93033**

Fang, Chong Zhi *see* **Tao, Luo Wen**, (Not in MR)

Farison, J. B. *see* **Kolla, S. R.**, (Not in MR)

Feintuch, A. Realization theory for time-varying, discrete-time linear systems. **89g:93013**

(Fielder, M.) *see* **Benzaouia, Abdellah**, **89e:93162**

Fisher, D. Grant *see* **Cluett, W. R.; et al.**, **89b:93097** *and* **89d:93074**

Fisher, Michael Ernest (*with* Gayek, Jonathan E.) Estimating reachable sets for two-dimensional linear discrete systems. **89b:49058**

Fliess, Michel Esquisses pour une théorie des systèmes non linéaires en temps discret. (English summary) [Sketch of a theory of nonlinear systems in discrete time] **89e:93057**

Fornasini, Ettore *see* **Bisiacco, Mauro; et al.**, **89k:93046**

Francis, B. A. (*with* Georgiou, Tryphon T.) Stability theory of linear time-invariant plants with periodic digital controllers. **89f:93031**

Fúster, Amparo (*with* Guillen, J. M.) Questions of controllability and observability for nonuniformly sampled discrete systems. (Not in MR)

Gaĭshun, I. V. (*with* Goryachkin, V. V.) Construction of the solutions of a class of distributed discrete systems. (Russian) **89a:39001**

Gaitsgori, V. G. (*with* Pervozvanskiĭ, Anatoli A.) Local criteria of quality in the optimization of technological complexes. (Not in MR)

Gawande, M. (*with* Dunn, J. C.) A projected Newton method in a Cartesian product of balls. **89h:90198**

Gayek, Jonathan E. *see* **Fisher, Michael Ernest, 89b:49058**

Georgiou, Tryphon T. *see* **Francis, B. A., 89f:93031**

Geromel, J. C. (*with* Bernussou, J.) Parametrical optimization approach for decentralized regulation of discrete systems. **89c:93007**

Gessing, Ryszard Optimal control laws for a two-level linear quadratic problem. **89g:93109**

Gibson, James S. (*with* Rosen, I. G.) Approximation of discrete-time LQG compensators for distributed systems with boundary input and unbounded measurement. **89e:93090**

— (*with* Rosen, I. G.) Numerical approximation for the infinite-dimensional discrete-time optimal linear-quadratic regulator problem. **89a:93020**

Gilbert, E. G. *see* **Keerthi, S. S., 89d:93082**

Giri, F. (*with* Dion, J. M.; M'Saad, M.; Dugard, L.) A globally convergent pole placement indirect adaptive controller. **89k:93103**

Goodwin, Graham C. (*with* Middleton, R.) Continuous and discrete adaptive control. **89a:93032**

Goryachkin, V. V. *see* **Gaĭshun, I. V., 89a:39001**

Grasselli, Osvaldo Maria (*with* Longhi, Sauro) Disturbance localization by measurement feedback for linear periodic discrete-time systems. **89g:93041**

— (*with* Longhi, Sauro) Zeros and poles of linear periodic multivariable discrete-time systems. **89k:93104**

Grigor′ev, V. V. (*with* Korov′yakov, A. N.) A study of the quality of multiply connected discrete systems based on the comparison method. **89m:93004**

Grimble, M. J. State-space approach to H_∞ optimal control. (Not in MR)

— *see also* **Šebek, M.; et al., 89e:93228**

Grizzle, Jessy W. (*with* Nijmeijer, Henk) On the infinite zeros of nonlinear discrete-time systems. (*see* **89b:93010**)

Gu, Xing Yuan (*with* Wang, Wei^5) On the stability of a self-tuning controller in the presence of bounded disturbances. **89m:93072**

Guillen, J. M. *see* **Fúster, Amparo**, (Not in MR)

Guo, Lei *see* **Chen, Han Fu, 89b:93068; 89i:93071** *and* **89j:93125**

Gurman, V. I. Models and optimality conditions for discrete-continuous processes. (Russian and Polish summaries) (Not in MR)

Hamano, Fumio Necessary and sufficient conditions for subspace reachability and controllability of discrete-time, time-invariant linear dynamical systems. **89j:49037**

Hammer, Jacob The concept of rationality and stabilization of nonlinear systems. **89e:93155**

— Assignment of dynamics for nonlinear recursive feedback systems. **89m:93028**

Hanzon, B. On a coordinate free prediction error algorithm for system identification. **89c:93077**

Hartmann, I. *see* **Endrikat, C.**, (Not in MR)

Hassan, M. M. (*with* Amin, M. H.) Time-optimal output regulators for linear multivariable discrete-time systems. I. Right invertible decouplable systems. **89k:93049**

— *see also* **Amin, M. H., 89k:93050**

Heij, C. *see* **Willems, J. C., 89c:93025**

Helton, J. William (*with* Sideris, Athanasios) Frequency response algorithms for H_∞ optimization with time domain constraints. **89m:93029**

Hennet, J.-C. *see* **Vassilaki, M.; et al.**, (Not in MR)

Hernández, Vicente García (*with* Urbano, Ana) Pole-assignment problem for discrete-time linear periodic systems. **89e:93111**

— (*with* Urbano, Ana) Extended inertia theorems for discrete-time periodic Lyapunov and Riccati equations. **89j:93023**

Hong, Yi Guang (*with* Huang, Lin) Small disturbance problems associated with the algebraic Riccati equations of discrete linear time-invariant systems. (Chinese. English summary) (Not in MR)

Huang, Ch'i (*with* Shyu, Kuo Kai) Series expansion approach to the analysis and identification of discrete Hammerstein systems. (Not in MR)

— *see also* **Shyu, Kuo Kai, 89e:93053**

Huang, Dao Ping *see* **Zhu, Xue Feng; et al.**, (Not in MR)

Huang, Hsiao-Ping (*with* Chen, Cheng-Liang; Chao, Yung-Cheng) Identification of MIMO continuous-time models by indirect methods. (Not in MR)

Huang, Lin *see* **Hong, Yi Guang**, (Not in MR)

Huang, Wen Hu *see* **Duan, Guang Ren; et al., 89m:93032**

Humbert, C. *see* **Mehdi, D., 89g:93092**

Hunt, K. J. (*with* Šebek, M.) Optimal multivariable regulation with disturbance measurement feedforward. (Not in MR)

— *see also* **Šebek, M.; et al., 89e:93228**

Ichikawa, K. Deadbeat characteristic of one-step-ahead control. **89m:93018**

Inouye, Yujiro (*with* Kato, Koichi) Matrix-fraction descriptions and the McMillan form of a transfer function meromorphic in the unit disk. **89k:93051**

Ishihara, Hirokazu *see* **Konishi, Katsunobu; et al.**, (Not in MR)

Ishihara, Tadashi Robust stability bounds for a class of discrete-time regulators with computation delays. (Not in MR)

Ivanov, V. M. (*with* Chentsov, A. G.) Control of discrete systems on an infinite time interval. (Russian) **89c:90120**

Jager, Henk *see* **Amman, Hans M., 89h:93027**

Jakubczyk, B. Feedback linearization of discrete-time systems. **89g:93020**

Janati-Idrissi, M. *see* **Youlal, H.; et al.**, (Not in MR)

Janssen, Peter H. M. General results on the McMillan degree and the Kronecker indices of ARMA and MFD models. **89e:93050**

Ji, Yuandong (*with* Chizeck, Howard J.) Controllability, observability and discrete-time Markovian jump linear quadratic control. **89g:93111**

— (*with* Chizeck, Howard J.) Optimal quadratic control of jump linear systems with separately controlled transition probabilities. **89k:93224**

Jiang, Chung Li Sufficient and necessary condition for the asymptotic stability of discrete linear interval systems. (Not in MR)

— *see also* **Kolla, S. R.**, (Not in MR) *and* **Karl, W. Clem**, (Not in MR)

Jiang, Jin (*with* Doraiswami, R.) Direct and blockwise identification of decomposable systems using recursive least-squares algorithm. **89k:93064**

Johansson, Rolf Stability of direct adaptive control with RLS-identification. **89c:93050**

Johnson, Alan *see* **Castelein, R., 89k:93041**

Juang, J.-N. (*with* Cooper, J. E.; Wright, J. R.) An eigensystem realization algorithm using data correlations (ERA/DC) for modal parameter identification. (Not in MR)

Kaczorek, T. (*with* Klamka, Jerzy) Minimum energy control for general model of 2-D linear systems. **89f:93008**

— (*with* Świerkosz, M.) General model of n-D system with variable coefficients and its reduction to 1-D system with variable structure. **89j:93019**

Kaliev, E. Zh. *see* **Astakhov, N. D., 89g:90137**

Kamen, Edward W. The poles and zeros of a linear time-varying system. **89e:93113**

— *see also* **Poolla, K. R.; et al., 89d:93020**

Kanellakis, A. *see* **Tzafestas, Spyros G.; et al., 89k:93191**

Karl, W. Clem (*with* Verghese, George C.) Comments on: "Sufficient and necessary condition for the asymptotic stability of discrete linear interval systems" [Internat. J. Control 47 (1988), no. 5, 1563–1565] by C. L. Jiang. (Not in MR)

Karlov, V. I. (*with* Krasil′shchikov, M. N.) Optimization of the measurement process in dynamic systems for different optimality criteria. **89e:93222**

Katkovnik, V. Ya. (*with* Kheĭsin, V. E.) Adaptive control of a static essentially nonstationary object. **89e:93140**

Kato, Koichi *see* **Inouye, Yujiro, 89k:93051**

Keerthi, S. S. (*with* Gilbert, E. G.) Optimal infinite-horizon feedback laws for a general class of constrained discrete-time systems: stability and moving-horizon approximations. **89d:93082**

Kel′mans, G. K. Indirect adaptive noise-nonminimal-phase control of dynamic objects. (Russian. English summary) **89d:93107**

Khargonekar, Pramod P. *see* **Poolla, K. R.; et al., 89d:93020**

Kharybin, N. I. *see* **Baranov, V. V.; et al., 89d:93115**

Kheĭsin, V. E. *see* **Katkovnik, V. Ya., 89e:93140**

Khomin, A. V. (*with* Chikriĭ, A. A.) A discrete pursuit problem. (Russian) **89c:90124**

Kimura, Hidenori *see* **Zhao, Yao, 89e:93078**

Kimura, Morishige Convergence of the doubling algorithm for the discrete-time algebraic Riccati equation. **89j:93040**

King, A. M. (*with* Desai, U. B.; Skelton, Robert E.) A generalized approach to q-Markov covariance equivalent realizations for discrete systems. **89e:93181**

Klamka, Jerzy *see* **Kaczorek, T., 89f:93008**

Kliokys, Edvardas Optimal filtering in systems with random structure and discrete time. (Russian. English summary) **89e:93197**

Kobayashi, Toshihiro Remarks on discrete-time servomechanism design for parabolic distributed parameter systems. **89e:93095**

Kocięcki, M. *see* **Banaszuk, A.; et al., 89c:93008**

Kogan, M. M. (*with* Neĭmark, Yu. I.) Adaptive locally optimal control. (Russian. English summary) **89e:93141**

Kolesov, N. V. The diagnosis of linear discrete time-dependent systems. (Not in MR)

Kolla, S. R. (*with* Farison, J. B.) Counter-examples to: "Sufficient and necessary condition for the asymptotic stability of discrete linear interval systems" [Internat. J. Control 47 (1988), no. 5, 1563–1565] by C. L. Jiang. (Not in MR)

Konishi, Katsunobu (*with* Maegawa, Kouji; Yoshimura, Toshio; Ishihara, Hirokazu) Multivariable discrete-time model reference adaptive control with input-smoothing property and its application. (Not in MR)

Korenberg, M. J. *see* **Billings, S. A.; et al.**, (Not in MR)

Korov′yakov, A. N. *see* **Grigor′ev, V. V., 89m:93004**

Kotov, V. E. *see* **Cherkasova, L. A., 89c:68028**

Kotta, Ülle A group-theoretic approach to the observability of nonlinear dynamical systems with discrete time. (Russian) **89b:93025**

Kotta, Yu. R. The ensuring of autonomy of a nonlinear dynamical system with discrete time. (Not in MR)

Kowalski, Aleksander (*with* Szynal, D.) On state estimation and control in discrete-time systems of linear type. **89k:93196**

Krasil′shchikov, M. N. *see* **Karlov, V. I., 89e:93222**

Krikelis, N. J. *see* **Mantas, G. P.**, (Not in MR)

Krotov, V. F. A technique of global bounds in optimal control theory. (Russian and Polish summaries) **89k:93004**

Kubrusly, C. S. On the existence, evolution, and stability of infinite-dimensional stochastic discrete bilinear models. **89a:93030**

Kunt, Murat *see* **Boite, René, 89f:94001**

Kuntsevich, V. M. (*with* Lychak, M. M.; Nikitenko, A. S.) Active identification of the parameters of a linear static object (a game-theoretic problem of the design of an experiment). (Russian. English summary) **89e:93208**

— Determination of guaranteed estimates for the state vectors and parameters of discrete dynamical systems. (Russian) **89e:93067**

— (*with* Lychak, M. M.) Control under indeterminacy conditions (synthesis of adaptive control systems). **89j:93028**

Kurek, J. E. Observability and reconstructibility of the 2-D Fornasini-Marchesini model. **89e:93027**

Kurzhanskiĭ, A. B. On stochastic filtering approximations of estimation problems for systems with uncertainty. **89a:93047**

Kwon, Bong-Hwan (*with* Youn, Myung-Joong) Optimal discrete systems using time-weighted performance index with prespecified closed-loop eigenvalues. (Not in MR)

Lasserre, J. B. Existence of closed-loop policies for constrained discrete-time linear systems with bounded disturbances. **89f:93021**

Lawrence, Peter D. *see* **Marchand, Pauline A.; et al.**, (Not in MR)

Lebedev, A. L. Ideal observability of discrete systems with delay. (Russian) **89b:93026**

Lee, Shiow Harn *see* **Li, Tsu T'ien, 89i:93051**

Leontaritis, I. J. (*with* Billings, S. A.) Prediction error estimator for nonlinear stochastic systems. **89b:93100**

Lewis, F. L. *see* **Mertzios, B. G., 89k:93124**

Li, Si Fu An improvement of model algorithmic control. (Chinese. English summary) **89j:93064**

Li, Tsu T'ien (*with* Lee, Shiow Harn) Synthesis of control laws with specified gain and phase margin and poles region. **89i:93051**

Li, Yong^4 A simple algorithm for discrete-time MRAC systems. (Chinese. English summary) (Not in MR)

Li, Yong^5 (*with* Wonham, W. M.) On supervisory control of real-time discrete-event systems. **89k:93122**

Li, Zheng Discrete-time adaptive control of systems consisting of known and unknown subsystems. **89k:93132**

Lin, Feng (*with* Wonham, W. M.) On observability of discrete-event systems. **89g:93008**

— (*with* Wonham, W. M.) Decentralized supervisory control of discrete-event systems. **89g:93066**

Lin, Jian Nan (*with* Lü, Yong Zai) Decomposition algorithm of dynamic programming for large-scale time-delay systems. **89h:49027**

Lindquist, Anders *see* **Badawi, Faris A., 89d:93110**

Liu, Yong Qing *see* **Zhu, Xue Feng; et al.**, (Not in MR)

Lomaka, M. V. (*with* Medvedev, I. V.) Construction of an equivalent model of a discrete system with several impulse elements. (Not in MR)

Longhi, Sauro *see* **Grasselli, Osvaldo Maria, 89g:93041** *and* **89k:93104**

Lu, W. S. 2-D stability test via 1-D stability robustness analysis. **89g:93086**

Lü, Yong Zai *see* **Lin, Jian Nan, 89h:49027**

Luenberger, David G. Boundary recursion for descriptor variable systems. (Not in MR)

Lutz, D. A. *see* **Benzaid, Z., 89i:49027**

Lychak, M. M. *see* **Kuntsevich, V. M.; et al., 89e:93208** *and* **89j:93028**

Ma, C. C. H. Inherent robustness of discrete-time adaptive control systems. **89j:93071**

Ma, Wan Biao Two theorems on the stability of discrete systems. (Chinese. English summary) **89j:93096**

Maegawa, Kouji *see* **Konishi, Katsunobu; et al.**, (Not in MR)

Magaña, Mario E. (*with* Żak, S. H.) Robust state feedback stabilization of discrete-time uncertain dynamical systems. **89e:93167**

— (*with* Żak, S. H.) Robust output feedback stabilization of discrete-time uncertain dynamical systems. (Not in MR)

Mah, Richard S. H. *see* **Narasimhan, Shankar**, (Not in MR)

Mahalanabis, A. K. *see* **Prasad, R.; et al., 89j:93012**

Mahmoud, Magdi S. (*with* Bahnasawi, Ahmed A.) Some properties of absolutely stable discrete time systems. **89e:93175**

— (*with* Bahnasawi, Ahmed A.) Asymptotic stability for a class of linear discrete systems with bounded uncertainties. (Not in MR)

— (*with* Bahnasawi, Ahmed A.) Stabilization of discrete adaptive systems with bounded disturbances. **89k:93187**

— (*with* Eid, Shawki Z.) Optimization of freeway traffic control problems. **89b:90084**

— *see also* **Bahnasawi, Ahmed A.; et al., 89i:93085**

Makhmudov, È. N. A polyhedral optimization problem for polyhedral discrete and differential inclusions, and duality. **89i:90076**

Mäkilä, P. M. *see* **Toivonen, H. T.**, (Not in MR)

Mantas, G. P. (*with* Krikelis, N. J.) LQ optimal control for discrete descriptor systems with a complete set of boundary information. (Not in MR)

Marchand, Pauline A. (*with* Lawrence, Peter D.; Cherchas, Dale B.) A discrete-time optimal adaptive control law for a robot arm. (Not in MR)

Marchenko, Vladimir Matveevich (*with* V″lkova, Yu. S.) Game-theoretic controllability problems for linear discrete systems. (Russian. English summary) **89c:90125**

Marchesini, Giovanni *see* **Bisiacco, Mauro; et al., 89k:93046**

Mareels, I. M. Y. (*with* Bitmead, Robert R.) Nonlinear dynamics in adaptive control: periodic and chaotic stabilization. II. Analysis. **89e:93142**

Marszałek, Wiesław (*with* Sadecki, Jan) Dynamic programming for 2-D discrete linear systems. **89k:49021**

Martín-Sánchez, J. M. *see* **Cluett, W. R.; et al., 89d:93074**

Martynyuk, D. I. (*with* Yurchik, A. I.) Solution of a periodic control problem for a system of difference equations by a method of two-sided approximations. (Russian) **89d:49039**

Massoumnia, Mohammad-Ali (*with* Vander Velde, Wallace E.) Generating parity relations for detecting and identifying control system component failures. (Not in MR)

Medvedev, I. V. *see* **Lomaka, M. V.**, (Not in MR)

Megan, M. *see* **Preda, P., 89f:93030**

Mehdi, D. (*with* Humbert, C.) Simulation studies on sample convergence in parameter estimation of discrete time stochastic process with stochastic parameters. **89g:93092**

Mertzios, B. G. (*with* Lewis, F. L.) An algorithm for the computation of the transfer function matrix of generalized two-dimensional systems. **89k:93124**

Meyer, David G. Annihilator structure of a principal ideal: relation to optimal compensators. (Not in MR)

Michaletzky, György *see* **Bencsik, I., (89d:00007)**

Middleton, R. *see* **Goodwin, Graham C., 89a:93032**

Miller, D. F. Impulse response matching for z-domain identification with application to model order reduction. **89c:93036**

Minyuk, S. A. (*with* Sen′ko, V. V.) On the theory of optimization from initial data of systems with aftereffect. **89d:34127**

Monaco, Salvatore (*with* Normand-Cyrot, Dorothée) A Lie exponential formula for the nonlinear discrete time functional expansions. **89d:93123**

M'Saad, M. *see* **Giri, F.; et al., 89k:93103**

Munakata, Tsunehiro (*with* Nishida, Yuso) Suboptimal minimal-time control to discrete quantized linear control systems with integer coefficients. **89k:49023**

Muraca, P. *see* **Carotenuto, L.; et al., 89m:93080**

Naidu, D. S. ★ Singular perturbation methodology in control systems. **89k:93005**

— *see also* **Sen, Siddhartha^2**, (Not in MR)

Najim, M. *see* **Youlal, H.; et al.**, (Not in MR)

Nam, Kwanghee Linearization of discrete-time nonlinear systems and a canonical structure. **89k:93031**

Narasimhan, Shankar (*with* Mah, Richard S. H.) Generalized likelihood ratios for gross identification in dynamic processes. (Not in MR)

Neĭmark, Yu. I. *see* **Kogan, M. M., 89e:93141**

Niedźwiecki, Maciej Functional series modeling approach to identification of nonstationary stochastic systems. **89j:93132**

Nieuwenhuis, J. W. Stability analysis by means of modern linear systems theory. **89k:93156**

Nijmeijer, Henk *see* **Grizzle, Jessy W., (89b:93010)**

Nikitenko, A. S. *see* **Kuntsevich, V. M.; et al., 89e:93208**

Nishida, Yuso *see* **Munakata, Tsunehiro, 89k:49023**

Nishikawa, Yoshikazu *see* **Sannomiya, N.; et al., 89j:49029** *and* **Shirazi, M. N.; et al., 89k:93199**

Nordström, Niklas Order reducing approximation of two-time-scale stochastic discrete linear time-varying systems. (*see* **89b:93008**)

Normand-Cyrot, Dorothée *see* **Monaco, Salvatore, 89d:93123**

Okubo, Masatoshi *see* **Sannomiya, N.; et al., 89j:49029**

Olsson, Per Olof *see* **Wittenmark, Björn**, (Not in MR)

Pakshin, P. V. An algebraic criterion for the absolute stochastic stability of nonlinear discrete systems with multiplicative white noise. **89f:93045**

Panasyuk, A. I. (*with* Svito, I. L.) Calculation of attracting sets for investigating the stability of discrete nonlinear dynamical systems by means of the dynamics of the sets. (Russian) **89h:58104**

— Algebraic operations that are consistent with a dynamical nonlinear discrete control system. (Russian) **89k:93053**

Panossian, Hagop V. Uncertainty management techniques in adaptive control. **89c:93052**

Panteleev, A. V. (*with* Bortakovskiĭ, A. S.) Optimal control of continuous-discrete systems. (Russian) (*see* **89j:34002**)

Pantoja, J. F. A. De O. Differential dynamic programming and Newton's method. **89e:49022**

Panzarella, L. *see* **de Brucq, D.; et al.**, (Not in MR)

Pavlov, N. D. A Bayesian method of parameter identification and prediction of states of linear stationary dynamical systems. **89i:93115**

Pearson, J. Boyd, Jr. *see* **Dahleh, Munther A.**, (Not in MR)

Perdon, A.-M. *see* **Conte, Giuseppe, 89g:93028**

Pervozvanskiĭ, Anatoli A. *see* **Gaĭtsgori, V. G.**, (Not in MR)

Pham Tran Nhu Feedback under Markov disturbances depending on control parameters. **89j:93143**

Phan Huy Khai (*with* Đinh Sĩ Đại) Problems of pursuit by several objects in some classes of discrete games with integral constraints. (Russian) **89c:90126**

Podtsykin, N. S. *see* **Baranov, V. V.; et al., 89d:93115**

Polites, Michael E. (*with* Beale, Guy O.) Modelling and designing digital control systems with averaged measurements. (Not in MR)

Polunin, I. A. Adaptive control of a nonminimal-phase linear discrete object. (Russian. English summary) **89d:93084**

Poolla, K. R. (*with* Kamen, Edward W.; Khargonekar, Pramod P.) Polynomial and stable-proper factorizations of transfer-function matrices for linear time-varying systems. **89d:93020**

Popchev, Ivan P. (*with* Tsoneva, Rainitchka G.) Convergence study of a decomposition method for optimal control of large-scale time-delayed interconnected systems. (Russian summary) **89h:49029**

— (*with* Tsoneva, Rainitchka G.) Condition for asymptotic stability of an interconnected system with time-delays under two-layer hierarchical control. (Russian summary) **89m:93071**

Porosiński, Zdzisław (*with* Szajowski, Krzysztof; Trybuła, Stanisław) Minimax control of a second order linear system. **89b:93121**

Prasad, R. (*with* Ahson, S. I.; Mahalanabis, A. K.) Decentralized observer for interconnected systems. **89j:93012**

Preda, P. (*with* Megan, M.) On the stability of linear infinite-dimensional discrete-time systems. (Serbo-Croatian summary) **89f:93030**

Przyłuski, K. M. Stability of linear infinite-dimensional systems revisited. **89j:93101**

— Remarks on the stability of linear infinite-dimensional discrete-time systems. **89g:93087**

— *see also* **Banaszuk, A.; et al., 89c:93008**

Raiconi, G. *see* **Carotenuto, L.; et al., 89m:93080**

Rakotopara, D. *see* **de Brucq, D.; et al.**, (Not in MR)

Raol, J. R. (*with* Sinha, N. K.) Estimation of states and parameters of stochastic nonlinear systems with measurements corrupted by correlated noise. (Russian summary) **89e:93211**

Ray, Goshaidas On the decentralized stabilization of interconnected discrete time systems. **89c:93004**

Reyman, Grzegorz (*with* Schäfer, Wolfgang; Trippler, Gisela) Application of dynamic programming and discrete maximum principle to a problem of optimal operation choice for a robot in assembly processes. (Russian and Polish summaries) (Not in MR)

Rishel, Raymond Warren A nonlinear discrete time stochastic adaptive control problem. **89e:93227**

Romanenko, V. D. Optimal discrete control of a multidimensional object with an estimate for the state and perturbation variables. (Russian) (Not in MR)

— Optimal adaptive control of nonlinear multidimensional technological plants with an estimation of parameters and state variables. (Russian) (Not in MR)

Rosen, I. G. *see* **Gibson, James S., 89a:93020** *and* **89e:93090**

Ruan, Rong Yao *see* **Chen, Hui Xin, 89e:93203**

Runggaldier, Wolfgang J. *see* **Albertini, Francesca, 89m:49044**

Rust, John Maximum likelihood estimation of discrete control processes. **89k:62112**

Sadecki, Jan *see* **Marszałek, Wiesław, 89k:49021**

Saeki, Masami Methods of solving a polynomial equation for an H_∞ optimal control problem for a single-input single-output discrete-time system. **89j:93025**

Sannomiya, N. (*with* Nishikawa, Yoshikazu; Okubo, Masatoshi; Tsuda, Takashi) Optimal control of system with continuous and discrete state variables. **89j:49029**

— *see also* **Shirazi, M. N.; et al., 89k:93199**

Sawan, M. E. *see* **Tran, Minh T.**, (Not in MR)

Schäfer, Wolfgang *see* **Reyman, Grzegorz; et al.**, (Not in MR)

Schwarz, Helmut Stability of discrete-time equivalent homogeneous bilinear systems. **89a:93038**

Šebek, M. (*with* Hunt, K. J.; Grimble, M. J.) LQG regulation with disturbance measurement feedforward. **89e:93228**

— *see also* **Hunt, K. J.**, (Not in MR)

Selbuz, Hasan (*with* Eldem, Vasfi) Kleinman's controller: a further stabilizing property. **89i:93094**

de la Sen, Manuel A robust indirect discrete adaptive-control approach based on passivity results for nonlinear systems. **89e:93075**

— Optimal prediction and control in the presence of unmodelled dynamics. **89e:93229**

Sen, Siddhartha^2 (*with* Naidu, D. S.) Time-optimal control algorithm for two-time-scale

discrete system. (Not in MR)
Sen'ko, V. V. *see* **Minyuk, S. A., 89d:34127**
Sezer, M. E. (*with* Šiljak, Dragoslav D.) Robust stability of discrete systems. **89j:39006**
Shah, S. L. *see* **Cluett, W. R.; et al., 89b:93097** *and* **89d:93074**
Shander, V. N. Conditions for the optimality of a quasi-open strategy. (Russian. English summary) **89e:93230**
Shi, Wei *see* **Sun, Xi, 89e:93144** *and* (Not in MR)
Shil'man, S. V. Limitingly optimal filtering: adaptive Kalman-Wiener filters. **89d:93105**
Shirazi, M. N. (*with* Sannomiya, N.; Nishikawa, Yoshikazu) Robust ε-contaminated Gaussian filtering of discrete-time linear systems. **89k:93199**
Shorikov, A. F. Minimax program control of an identification process in nonlinear multistep systems. **89j:93031**
Shyu, Kuo Kai (*with* Huang, Ch'i) Optimal control of linear time-varying discrete systems via discrete Legendre orthogonal polynomials. **89e:93053**
— *see also* **Huang, Ch'i,** (Not in MR)
Sideris, Athanasios *see* **Helton, J. William, 89m:93029**
Šiljak, Dragoslav D. *see* **Sezer, M. E., 89j:39006**
Sinai, Massoud Suboptimality bounds on decentralized control and estimation of large-scale discrete-time linear systems. **89e:93009**
Sinha, N. K. *see* **Raol, J. R., 89e:93211**
Skelton, Robert E. *see* **King, A. M.; et al., 89e:93181**
Slivinskas, Algimantas Asymptotic behavior of the optimal trajectories in a model for the control of renewable resources. (Russian. English and Lithuanian summaries) **89e:90071**
Soliman, S. A. (*with* Christensen, G. S.) Optimization of reservoirs in series on a river with a nonlinear storage curve for long-term regulation. **89e:93151**
Song, Wen Zhong (*with* Xu, Yu^2) Identification of linear discrete systems with unknown time delays. (Chinese. English summary) **89c:93037**
Strejc, V. Discrete version of model-in-the-system control. (Russian summary) **89d:93050**
Sun, Xi (*with* Shi, Wei) Discrete time adaptive control of MIMO systems with dead-zone nonlinearity. (Chinese. English summary) **89e:93144**
— (*with* Shi, Wei) Adaptive control of MIMO systems with piecewise nonlinearities. (Chinese. English summary) (Not in MR)
Sun, Zhen Qi (*with* Wang, Jia Xing) Asymptotic stability and optimal stability of time-varying discrete dynamical systems with respect to a subset of the variables. (Chinese) (Not in MR)
Sutherland, W. R. S. (*with* Wolkowicz, H.; Zeidan, V.) An explicit linear solution for the quadratic dynamic programming problem. **89e:49023**
Svito, I. L. *see* **Panasyuk, A. I., 89h:58104**
Świerkosz, M. *see* **Kaczorek, T., 89j:93019**
Szajowski, Krzysztof *see* **Porosiński, Zdzisław; et al., 89b:93121**
Szynal, D. *see* **Kowalski, Aleksander, 89k:93196**
Tagiev, R. K. Discretization and regularization of an optimal control problem for a hyperbolic equation. (Russian) **89g:49044**
Tao, Luo Wen (*with* Fang, Chong Zhi) Design of nonlinear observers on the basis of optimization methods. (Chinese. English summary) (Not in MR)
Terdik, G. Generalized Hermite polynomials and estimation of kernels for discrete I/O Wiener models. (Russian summary) **89d:93097**
Theodorou, N. *see* **Tzafestas, Spyros G., 89h:93013** *and* **89k:93191**
Tiihonen, Timo (*with* Zolésio, J.-P.) Gradient with respect to nodes for nonisoparametric finite elements. (*see* **89b:93006**)
Toivonen, H. T. (*with* Mäkilä, P. M.) Computer-aided design procedure for multiobjective LQG control problems. (Not in MR)
Topuzu, E. Some counterexamples in controllability of linear discrete time systems. (Romanian summary) **89j:93009**
Tran, Minh T. (*with* Sawan, M. E.) Exact eigenvalue placement for two-time-scale discrete-time systems. (Not in MR)
Trippler, Gisela *see* **Reyman, Grzegorz; et al.,** (Not in MR)
Trybuła, Stanisław Minimax law for a multivariate stochastic system. (Russian and Polish summaries) (Not in MR)
— *see also* **Porosiński, Zdzisław; et al., 89b:93121**
Tsoneva, Rainitchka G. *see* **Popchev, Ivan P., 89h:49029** *and* **89m:93071**
Tsuda, Takashi *see* **Sannomiya, N.; et al., 89j:49029**
Tsypkin, Ya. Z. Optimal tuning algorithms in direct adaptive systems for the control of objects with delay. (Russian. English summary) **89c:93053**
Tzafestas, Spyros G. (*with* Theodorou, N.) An inductive approach to the state space representation of multidimensional systems. **89h:93013**
— (*with* Theodorou, N.; Kanellakis, A.) Recent advances in the stability analysis of multi-dimensional systems. **89k:93191**
— *see also* **Watanabe, Keigo, 89g:93104**
Urbano, Ana *see* **Hernández, Vicente García, 89e:93111** *and* **89j:93023**
Usachev, E. S. Mathematical theory of adaptation and the uniform ergodic theorem for operators in a Banach lattice. (Russian) **89b:93098**
Vander Velde, Wallace E. *see* **Massoumnia, Mohammad-Ali,** (Not in MR)
Van Dooren, Paul *see* **Beelen, Th. G. J., 89b:93062**
Vassilaki, M. (*with* Hennet, J.-C.; Bitsoris, G.) Feedback control of linear discrete-time systems under state and control constraints. (Not in MR)
Verghese, George C. *see* **Karl, W. Clem,** (Not in MR)
Vicino, A. Some results on robust stability of discrete-time systems. **89j:93102**
V″lkova, Yu. S. *see* **Marchenko, Vladimir Matveevich, 89c:90125**
Volosov, V. V. *see* **Bakan, G. M., 89d:93041**
Vũ Ngọc Phát Controllability of nonlinear discrete systems without differentiability assumption. **89b:93024**
Wang, Jia Xing *see* **Sun, Zhen Qi,** (Not in MR)
Wang, Jian Guo *see* **Deng, Zi Li,** (Not in MR)
Wang, Ru Qu *see* **Chen, You Gen,** (Not in MR)
Wang, Wei^5 *see* **Gu, Xing Yuan, 89m:93072**
Wang, Zhen Xue Generalized predictive control based on a stochastic reference input. (Chinese. English summary) **89f:93048**
Watanabe, Keigo (*with* Tzafestas, Spyros G.) Discrete-time forward-pass smoothers in distributed-sensor networks. **89g:93104**
Wei, Jian Guo *see* **Zhu, Zhi Xiang; et al., 89k:93138**
Willems, J. C. (*with* Heij, C.) Scattering theory and approximation of linear systems. **89c:93025**
Wittenmark, Björn (*with* Olsson, Per Olof) Identification based on data with sampling delays. (Not in MR)
Wolkowicz, H. *see* **Sutherland, W. R. S.; et al., 89e:49023**
Wonham, W. M. *see* **Lin, Feng, 89g:93008; 89g:93066** *and* **Li, Yong^5, 89k:93122**
Wright, J. R. *see* **Juang, J.-N.; et al.,** (Not in MR)
Wu, Guang Yu *see* **Duan, Guang Ren; et al., 89m:93032** *and* **Zhang, Yu Ming^1,** (Not in MR)
Wu, Jinn-Wen (*with* Brown, David P.) On the stability of shift variant discrete systems. (Not in MR)
Xi, Yu Geng New design method for discrete-time multi-variable predictive controllers. (Not in MR)
— Minimal form of a predictive controller based on the step-response model. (Not in MR)
Xu, Cheng Wei A novel pole-assignment self-tuning controller algorithm. (Chinese. English summary) **89m:93052**
Xu, Yu^2 *see* **Song, Wen Zhong, 89c:93037**
Yahagi, Takashi Minimax observers. **89k:93029**
Yaz, Engin On the optimal state estimation of a class of discrete-time nonlinear systems. **89e:93191**
— Design of observers for nonlinear time-varying systems. **89e:93029**
— Stabilizing compensator design for discrete-time nonlinear stochastic systems with incomplete state information. **89e:93161**
— Dynamic feedback control of stochastic-parameter systems. (Not in MR)
— Feedback controllers for stochastic-parameter systems: relations among various stabilizability conditions. **89j:93136**
Yong, Jiong Min (*with* Arapostathis, Aristotle) Stabilization of discrete-time linear systems with a time delay in the feedback loop. **89g:93076**
Yoshimura, Toshio *see* **Konishi, Katsunobu; et al.,** (Not in MR)
Youlal, H. (*with* Janati-Idrissi, M.; Najim, M.) Convergence properties of 2D adaptive gradient lattice algorithms. (French summary) (Not in MR)
Youn, Myung-Joong *see* **Kwon, Bong-Hwan,** (Not in MR)
Yurchik, A. I. *see* **Martynyuk, D. I., 89d:49039**
Żak, S. H. *see* **Magaña, Mario E., 89e:93167** *and* (Not in MR)
Zeidan, V. *see* **Sutherland, W. R. S.; et al., 89e:49023**
Zhang, Rong Xin A filtering method for nonlinear systems. (Chinese) (Not in MR)
Zhang, Yu Ming^1 (*with* Wu, Guang Yu) An exact recursive algorithm for computing the parameters of linear difference models of increasing orders. (Chinese. English summary) (Not in MR)
Zhao, Yao (*with* Kimura, Hidenori) Multivariable dead-beat control with robustness. **89e:93078**
Zhu, Xue Feng (*with* Huang, Dao Ping; Liu, Yong Qing) Modified dynamic matrix control. (Chinese summary) (Not in MR)
Zhu, Zhi Xiang (*with* Dai, Guan Zhong; Wei, Jian Guo) A self-tuning control system for an optical fiber drawing process. (Chinese. English summary) **89k:93138**
Zolésio, J.-P. *see* **Tiihonen, Timo,** (**89b:93006**)
Zuber, I. E. Design of stabilizing control for nonlinear discrete objects. (Russian) (*see* **89j:34002**)

93C57 Sampled-data

Alonso, L. *see* **Pérez, J. M.; et al.,** (Not in MR)
Araki, Mituhiko *see* **Hagiwara, Tomomichi, 89i:93079**
Baĭnov, D. D. (*with* Khristova, S. G.; Hu, Shou Chuan; Lakshmikantham, V.) Periodic boundary value problems for systems of first order impulsive differential equations. **89h:93038**
— *see also* **Dishliev, A. B., 89b:93074; Simeonov, P. S., 89e:93147; Kulev, G. K., 89i:93080; Khristova, S. G., 89j:93075** *and* **Kulev, G. K., 89k:93144**
Bressan, Alberto On differential systems with impulsive controls. (Italian summary) **89d:93065**
— (*with* Rampazzo, Franco) On differential systems with vector-valued impulsive controls. (Italian summary) **89i:93078**
Diordiev, N. D. (*with* Nozhak, G. V.) Closed sampled-data systems with distributed parameters. (Russian) (*see* **89c:00009**)
Dishliev, A. B. (*with* Baĭnov, D. D.) Continuous dependence of the solution of a system of differential equations with impulses on the initial condition and a parameter in the presence of beating. **89b:93074**
Grizzle, Jessy W. (*with* Shor, M. H.) Sampling, infinite zeros and decoupling of linear systems. **89f:93028**
Hagiwara, Tomomichi (*with* Araki, Mituhiko) On preservation of strong stabilizability under sampling. **89i:93079**
Hu, Shou Chuan (*with* Lakshmikantham, V.; Leela, S.) Impulsive differential systems and the pulse phenomena. **89k:93143**
— *see also* **Baĭnov, D. D.; et al., 89h:93038**
Khristova, S. G. (*with* Baĭnov, D. D.) Monotone-iterative method for solving the periodic problem for systems of impulsive differential equations. **89j:93075**
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Korneev, V. A. Optimal synthesis in a problem of the impulse correction of motion. (Russian) (Not in MR)
Kulev, G. K. (*with* Baĭnov, D. D.) Strong stability of impulsive systems. **89i:93080**
— (*with* Baĭnov, D. D.) Second method of Lyapunov and comparison principle for systems with impulse effect. **89k:93144**
Lakshmikantham, V. *see* **Baĭnov, D. D.; et al., 89h:93038** *and* **Hu, Shou Chuan; et al., 89k:93143**
Leela, S. *see* **Hu, Shou Chuan; et al., 89k:93143**
Li, Wei (*with* Sun, Zeng Qi) Optimal control for sampled-data systems with a delay in the control. (Chinese. English summary) **89a:93036**
Mariton, M. On systems with non-Markovian regime changes. **89k:93145**
Nozhak, G. V. *see* **Diordiev, N. D.,** (**89c:00009**)

Pérez, J. M. (*with* Alonso, L.; Villar, E.) Composition rules for a binary tree with respect to a block diagram of a sampled system. (Spanish) (Not in MR)

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Perthame, Benoît Vanishing impulse cost in the quasivariational inequality for ergodic impulse control. **89e:93146**

Plaksina, V. P. (*with* Provotorova, E. N.) A theorem of Nagumo type for a sampled-data system. (Russian) (*see* **89c:00009**)

Provotorova, E. N. *see* **Plaksina, V. P.**, (**89c:00009**)

Rampazzo, Franco *see* **Bressan, Alberto**, **89i:93078**

Rodionov, A. M. Investigation of sampled-data systems of variable structure with delay. (Russian. English summary) (Not in MR)

Shor, M. H. *see* **Grizzle, Jessy W.**, **89f:93028**

Simeonov, P. S. (*with* Baĭnov, D. D.) Integral and differential inequalities for a class of piecewise-continuous functions. (Russian) **89e:93147**

Sun, Lai Xiang The influence of the sampling period on the stability of an optimal sampled-data regulator. (Chinese. English summary) (Not in MR)

Sun, Zeng Qi *see* **Li, Wei**, **89a:93036**

Tarn, Tzyh Jong (*with* Zeng, Xiaoming; Zavgren, John R., Jr.) Feedback stabilization of linear dynamic systems with multirate sampled output. **89h:93039**

Villar, E. *see* **Pérez, J. M.; et al.**, (Not in MR) *and* (Not in MR)

Zavgren, John R., Jr. *see* **Tarn, Tzyh Jong; et al.**, **89h:93039**

Zeng, Xiaoming *see* **Tarn, Tzyh Jong; et al.**, **89h:93039**

Zhou, Hong Xing Analysis of pulsewidth modulated sampled-data control systems. (Chinese. English summary) **89j:93076**

Items with secondary classifications in 93C57

Aĭvazyan, È. Yu. A frequency criterion for the stability of nonlinear sampled-data systems. **89c:34053**

Akhmetov, M. U. (*with* Perestyuk, N. A.) Periodic solutions of systems of differential equations with impulse actions on surfaces. (Russian) **89f:34056**

— Almost periodic solutions of integro-differential equations with impulse action. (Russian) **89f:45013**

— (*with* Perestyuk, N. A.) Almost periodic solutions of nonlinear sampled-data systems. (Russian. English summary) **89d:34079**

— (*with* Perestyuk, N. A.) On motion with impulse action on a surface. (Russian. Kazakh summary) **89f:34066**

— Recurrent and almost periodic solutions of nonautonomous sampled-data systems. (Russian. Kazakh summary) (Not in MR)

Araki, Mituhiko *see* **Hagiwara, Tomomichi**, **89m:93007**

Arolska, Mariya At. *see* **Baĭnov, D. D.; et al.**, **89f:34023**

Baĭnov, D. D. (*with* Milusheva, S. D.) Justification of the averaging method for a system of functional-differential equations with variable structure and impulses. **89m:34053**

— (*with* Kostadinov, St. I.) Exponential stability of the solutions of linear homogeneous differential equations with impulse effect in a Banach space. **89b:34142**

— (*with* Kostadinov, St. I.; Myshkis, A. D.) Bounded and periodic solutions of differential equations with impulse effect in a Banach space. **89b:34147**

— (*with* Zabreĭko, P. P.; Kostadinov, St. I.) Stability of the general exponent of nonlinear impulsive differential equations in a Banach space. **89c:34067**

— (*with* Kostadinov, St. I.; Zabreĭko, P. P.) L_p-equivalence of impulsive equations. **89m:34083**

— (*with* Arolska, Mariya At.; Vel′ov, V. M.) Boundary value problem for a singularly perturbed system of linear differential equations with impulses. **89f:34023**

— *see also* **Simeonov, P. S.**, **89b:34023**; **Zabreĭko, P. P.; et al.**, **89b:34120**; **Simeonov, P. S.**, **89c:26031**; **Dishliev, A. B.**, **89c:34004**; **Simeonov, P. S.**, **89d:34018**; **Dishliev, A. B.**, **89e:34004**; **Simeonov, P. S.**, **89e:34007**; **Zabreĭko, P. P.; et al.**, **89f:34087**; **Simeonov, P. S.**, **89g:34066**; **Khristova, S. G.**, **89i:34041**; **Simeonov, P. S.**, **89j:34007**; **89j:34074**; **89k:34074**; **89k:34085**; **Khristova, S. G.**, **89k:34122**; **Dishliev, A. B.**, **89m:34003**; **Simeonov, P. S.**, **89m:34070** *and* **89m:34078**

Barabanov, N. E. A problem of absolute stability of sampled-data automatic control systems. **89m:93063**

Belbas, S. A. (*with* Mayergoyz, I. D.) Applications of fixed-point methods to discrete variational and quasivariational inequalities. **89a:49008**

Bodner, V. A. (*with* Rodnishchev, N. E.; Yurikov, E. P.) On the optimization of systems with a random jump structure. (Russian. English summary) **89j:93138**

Bondar′, I. P. (*with* Stanzhitskiĭ, A. N.) Oscillation of the solutions of second-order differential equations with impulse action at a fixed moment of time. (Russian) **89a:34044**

— Development of an aspect of the comparison method for second-order differential equations with impulse action. (Russian) **89f:34044**

Borisenko, S. D. Stability and attraction of the solutions of nonlinear systems with impulse action. (Ukrainian. Russian summary) **89c:34050**

— Linear functional-differential equations with impulse action. (Russian) (*see* **89c:00026**)

— Estimates for the solutions of differential-difference equations with impulse action. (Russian) **89c:34069**

— Stability of the solutions of functional-differential equations with impulse action. (Russian) (Not in MR)

Burev, D. D. Analytic solution of a general nonlinear optimal control problem. (Russian) **89g:49046**

Dishliev, A. B. Applicability of a regularization method to singularly perturbed systems of ordinary differential equations with impulses. (Bulgarian. English and Russian summaries) **89e:34095**

— (*with* Baĭnov, D. D.) Differentiability on a parameter and initial condition of the solution of a system of differential equations with impulses. **89c:34004**

— (*with* Baĭnov, D. D.) Continuous dependence on the initial condition of the solution of a system of differential equations with variable structure and with impulses. **89e:34004**

— (*with* Baĭnov, D. D.) Continuous dependence of the solution of a system of differential equations with impulses on the impulse hypersurfaces. **89m:34003**

Francis, B. A. (*with* Georgiou, Tryphon T.) Stability theory of linear time-invariant plants with periodic digital controllers. **89f:93031**

Frankowska, H. Contingent cones to reachable sets of control systems. **89m:49034**

Georgiou, Tryphon T. *see* **Francis, B. A.**, **89f:93031**

Grizzle, Jessy W. (*with* Kokotović, P. V.) Feedback linearization of sampled-data systems. **89e:93040**

Gul′ka, S. S. Averaging in systems of integro-differential equations with impulse action. (Russian) **89a:45018**

Hagiwara, Tomomichi (*with* Araki, Mituhiko) Controllability indices of sampled-data systems. **89m:93007**

Ivanyuk, N. V. A scheme for the averaging of systems with multivalued impulse action. (Russian) **89f:34062**

Kats, I. Ya. Stability of the motion of stochastic systems with discontinuous phase trajectories. (Russian) (*see* **89j:34002**)

Kel′mans, G. K. Identification of auto-regression plants subjected to moving average noise. (Polish summary) **89d:93106**

Khristova, S. G. (*with* Baĭnov, D. D.) The method of the small parameter in the theory of differential equations with impulse effect. **89k:34122**

— (*with* Baĭnov, D. D.) Bounded solutions of systems of differential equations with impulses. **89i:34041**

Kokotović, P. V. *see* **Grizzle, Jessy W.**, **89e:93040**

Kostadinov, St. I. *see* **Zabreĭko, P. P.; et al.**, **89b:34120**; **Baĭnov, D. D.**, **89b:34142**; **89b:34147**; **89c:34067**; **Zabreĭko, P. P.; et al.**, **89f:34087** *and* **Baĭnov, D. D.; et al.**, **89m:34083**

Kovchin, S. A. Analysis of component errors in discrete automatic control systems. (Russian) **89i:93077**

Kreith, Kurt Conjugate points of fourth order differential equations with impulses. **89g:34044**

Lakshmikantham, V. (*with* Liu, Xinzhi) Stability for impulsive differential systems in terms of two measures. **89m:34067**

Lenhart, Suzanne M. Viscosity solutions associated with switching control problems for piecewise-deterministic processes. **89a:49030**

Levine, William S. *see* **Yang, Jiann-Shiou**, **89e:93109**

Likhoded, P. P. A method for investigating the stability of sampled-data systems. (Russian) **89m:34075**

Liu, Xinzhi *see* **Lakshmikantham, V.**, **89m:34067**

Lobok, A. P. *see* **Nakonechnyĭ, A. G.**, (Not in MR)

Los′, G. A. Stability of the solutions of a system of linear homogeneous differential equations with variable coefficients perturbed by impulses of Dirac delta-function type. (Russian) (*see* **89c:00008**)

Lutze, F. H. *see* **Vasudevan, Gopal**, (Not in MR)

Malinowski, Krzysztof Decentralised adaptive controllers for robotic manipulators. (Russian and Polish summaries) **89d:93067**

Mamsa, K. Yu. Construction of a periodic solution of a linear periodic system of differential equations with impulse action by the Bubnov-Galerkin method. (Ukrainian. Russian summary) (Not in MR)

Mariton, M. Jump linear quadratic control with random state discontinuities. **89b:93119**

— Averaged dynamics and pole assignment for a class of stochastic systems. **89k:93220**

Mayergoyz, I. D. *see* **Belbas, S. A.**, **89a:49008**

Mazziotto, G. (*with* Stettner, L.; Szpirglas, J.; Zabczyk, J.) On impulse control with partial observation. **89i:49009**

Miller, D. F. Impulse response matching for z-domain identification with application to model order reduction. **89c:93036**

Milusheva, S. D. *see* **Baĭnov, D. D.**, **89m:34053**

Mitropol′skiĭ, Yu. A. (*with* Samoĭlenko, A. M.; Perestyuk, N. A.) Integral sets of a class of differential equations with impulse action. (Russian) **89e:34079**

— (*with* Rogovchenko, S. P.) Application of the averaging method to the study of hyperbolic sampled-data systems. (Russian) **89k:35155**

Myshkis, A. D. *see* **Baĭnov, D. D.; et al.**, **89b:34147**

Nakonechnyĭ, A. G. (*with* Lobok, A. P.) Impulse control in systems with distributed parameters. (Russian) (Not in MR)

Perestyuk, N. A. *see* **Akhmetov, M. U.**, **89d:34079**; **Mitropol′skiĭ, Yu. A.; et al.**, **89e:34079**; **Akhmetov, M. U.**, **89f:34056** *and* **89f:34066**

Perthame, Benoît Recent results on the quasivariational inequality of the impulsive control. **89f:49010**

Rakhmatullina, L. F. The regularization of linear boundary value problems. (Russian) **89b:47020**

Rempała, Ryszarda (*with* Zabczyk, J.) On the maximum principle for deterministic impulse control problems. **89m:49037**

Robin, Maurice On some perturbation problems in optimal stopping and impulse control. **89c:93083**

Rodnishchev, N. E. *see* **Bodner, V. A.; et al.**, **89j:93138**

Rogovchenko, S. P. "Truncation" of countable systems of differential equations with impulse action. **89i:34059**

— *see also* **Mitropol′skiĭ, Yu. A.**, **89k:35155**

Rogovchenko, Yu. V. (*with* Trofimchuk, S. I.) On some sufficient conditions for the absence of "pulsations" in sampled-data systems. (Russian) **89b:34028**

— (*with* Trofimchuk, S. I.) Bounded solutions of weakly nonlinear sampled-data systems. (Russian) (*see* **89c:00026**)

Samoĭlenko, A. M. *see* **Mitropol′skiĭ, Yu. A.; et al.**, **89e:34079**

Shah, Swarupchand M. *see* **Wiener, Joseph**, **89b:34155**

Shovkoplyas, V. N. Boundary value problems for systems of ordinary differential equations with impulse action. (Russian) **89c:34025**

Simeonov, P. S. Continuous dependence of the solutions of systems with impulse action on the initial data and the parameter. (Russian. English and Bulgarian summaries) (Not in MR)

— Existence, uniqueness and continuability of the solutions of systems with impulse action. (Russian. English and Bulgarian summaries) (Not in MR)

— (*with* Baĭnov, D. D.) Asymptotic equivalence of a linear and nonlinear system with impulse effect. **89b:34023**

— (*with* Baĭnov, D. D.) Differentiability of solutions of systems with impulse effect with respect to initial data and parameter. **89e:34007**

— (*with* Baĭnov, D. D.) Orbital stability of the periodic solutions of autonomous systems with impulse effect. **89j:34074**

— (*with* Baĭnov, D. D.) On an integral inequality for piecewise continuous functions. **89c:26031**
— (*with* Baĭnov, D. D.) Perturbation theorems for systems with impulse effect. **89g:34066**
— (*with* Baĭnov, D. D.) Orbital stability of periodic solutions of autonomous systems with impulse effect. **89k:34085**
— (*with* Baĭnov, D. D.) Exponential stability of the solutions of the initial-value problem for systems with impulse effect. **89m:34070**
— (*with* Baĭnov, D. D.) Stability of the solutions of singularly perturbed systems with impulse effect. **89k:34074**
— (*with* Baĭnov, D. D.) On the asymptotic equivalence of systems with impulse effect. **89m:34078**
— (*with* Baĭnov, D. D.) Asymptotic equivalence of a linear and nonlinear system with impulse effect. **89d:34018**
— (*with* Baĭnov, D. D.) Differentiability of solutions of systems with impulse effect with respect to initial data and parameter. **89j:34007**
Sinha, A. S. C. Realization of ε-invariance using impulse control in systems of delay equations. **89k:93157**
Stanzhitskiĭ, A. N. *see* **Bondar′, I. P., 89a:34044**
Stettner, L. On ergodic stopping and impulsive control problems for nonuniformly ergodic Markov processes. **89k:60060**
— *see also* **Mazziotto, G.; et al., 89i:49009**
Szpirglas, J. *see* **Mazziotto, G.; et al., 89i:49009**
Tokarzewski, Jerzy Stability of linear systems with periodic feedback and sampled-data systems. **89m:93065**
Troch, I. Solving the discrete Lyapunov equation using the solution of the corresponding continuous Lyapunov equation and vice versa. (Not in MR)
— Relations between solutions of the continuous and the discrete Sylvester equation—consequences for stability properties. **89g:34078**
Trofimchuk, S. I. *see* **Rogovchenko, Yu. V., 89b:34028** *and* (**89c:00026**)
Vasudevan, Gopal (*with* Lutze, F. H.) On verification of fuel-optimal space trajectories. (Not in MR)
Vel′ov, V. M. *see* **Baĭnov, D. D.; et al., 89f:34023**
Venkatesh, Y. V. Riesz-Thorin theorem and l_p-stability of nonlinear time-varying discrete systems. **89k:39010**
Wang, Chao Zhu (*with* Wang, En Ping) Control system design for singular systems with an impulse model. (Chinese. English summary) **89k:93127**
Wang, En Ping *see* **Wang, Chao Zhu, 89k:93127**
Wang, Guang Xiong (*with* Yang, Qing) Analysis of self-sustained oscillations in digital control systems—the discrete describing function method and its application. (Chinese. English summary) **89i:34089**
Wiener, Joseph (*with* Shah, Swarupchand M.) Continued fractions arising in a class of functional-differential equations. **89b:34155**
Yang, Jiann-Shiou (*with* Levine, William S.) An H^∞ method for the design of linear time-invariant multivariable sampled-data control systems. **89e:93109**
Yang, Qing *see* **Wang, Guang Xiong, 89i:34089**
Yurikov, E. P. *see* **Bodner, V. A.; et al., 89j:93138**
Zabczyk, J. *see* **Mazziotto, G.; et al., 89i:49009** *and* **Rempała, Ryszarda, 89m:49037**
Zabreĭko, P. P. (*with* Baĭnov, D. D.; Kostadinov, St. I.) Stability of linear equations with impulse effect. **89b:34120**
— (*with* Baĭnov, D. D.; Kostadinov, St. I.) Characteristic exponents of impulsive differential equations in a Banach space. **89f:34087**
— *see also* **Baĭnov, D. D.; et al., 89c:34067** *and* **89m:34083**
Zhou, Hong Xing Steady-state stability for pulsewidth modulated sampled-data control systems. (Chinese. English summary) **89c:93064**

93C60 Continuous-time

Lim, Y. C. (*with* Parker, S. R.) Frequency-domain modeling of continuous-time systems using the lattice algorithms. (Not in MR)
Ma, Run Jin *see* **Zhang, Yong Guang,** (Not in MR)
Nagaoka, Hiroshi Mullis-Roberts-type approximation for continuous-time linear systems. **89m:93057**
Parker, S. R. *see* **Lim, Y. C.,** (Not in MR)
Wahlberg, Bo Limit results for sampled systems. (Not in MR)
Zhang, Yong Guang (*with* Ma, Run Jin) Zeros of sampled systems having fractional time delay. (Chinese. English summary) (Not in MR)

Items with secondary classifications in 93C60

Aeyels, Dirk Local and global stabilizability for nonlinear systems. **89d:93077**
Astrovskiĭ, A. I. A method for constructing information sets in linear nonstationary observation systems. (Russian. English summary) **89k:93020**
Bai, Shi *see* **Salam, Fathi M. A., 89h:93035**
Bandyopadhyay, B. *see* **Lamba, S. S.; et al., 89e:93042**
Barmish, B. Ross *see* **Wei, K. H., 89k:93180**
Bartosiewicz, Zbigniew On polynomial continuous time systems. **89c:93026**
Bortakovskiĭ, A. S. *see* **Panteleev, A. V.,** (**89j:34002**)
Boschková, Monika Self-tuning controls of linear stochastic systems in presence of drift. **89k:93128**
Bullock, Thomas E. *see* **Sangsuk-Iam, Suwanchai, 89k:93207**
Burovoĭ, I. A. *see* **Emel′yanov, S. V.; et al., 89j:93005**
Chou, Yi Shyong *see* **Liu, Ch'ing T'ien, 89f:93010**
De Abreu-Garcia, Jose A. (*with* Fairman, F. W.) Balanced realization via permutation symmetric Jordan realizations. **89k:93033**
Emel′yanov, S. V. (*with* Korovin, S. K.; Nikitin, Sergei Vyacheslavovich) Controllability of nonlinear systems. Two-dimensional systems. (Russian) **89c:93009**
— (*with* Burovoĭ, I. A.; Kirilychev, V. N.) Controllability of linear dynamical systems. **89j:93005**
Fairman, F. W. *see* **De Abreu-Garcia, Jose A., 89k:93033**
Goodwin, Graham C. (*with* Middleton, R.) Continuous and discrete adaptive control. **89a:93032**
Gorez, R. *see* **Lamba, S. S.; et al., 89e:93042**
Grujić, Ljubomir T. Algebraic conditions for absolute tracking control of continuous-time Lurie systems. (*see* **89f:00025**)
Han, Jian Xun *see* **Qin, Xia,** (Not in MR)
Hara, Shinji (*with* Kondō, R.; Katori, H.) Properties of zeros in digital control systems with computational time delay. **89k:93105**
He, Wen Guang Multiple model adaptive control for a class of systems with uncertain parameters. (Chinese. English summary) **89i:93072**
Hughes, Peter C. (*with* McTavish, Donald J.) Stability of discrete-time attitude control systems. (Not in MR)
Ioannou, P. A. (*with* Sun, J.) Theory and design of robust direct and indirect adaptive-control schemes. **89f:93014**
Ionescu, D. *see* **Rabah, R., 89c:93059**
Ionova, I. V. (*with* Smirnova, T. G.) ★ Некоторые задачи приближенного агрегирования. (Russian) [Some problems of approximate aggregation] **89e:93005**
Itskovich, È. L. (*with* Sorkin, L. R.) Statistical optimization of continuous production: formulation of the problem, solution and realization. (Not in MR)
Katori, H. *see* **Hara, Shinji; et al., 89k:93105**
Kirilychev, V. N. *see* **Emel′yanov, S. V.; et al., 89j:93005**
Kondō, R. *see* **Hara, Shinji; et al., 89k:93105**
Korovin, S. K. *see* **Emel′yanov, S. V.; et al., 89c:93009**
Kozin, F. Structural parameter identification techniques. **89g:93102**
Lamba, S. S. (*with* Gorez, R.; Bandyopadhyay, B.) New reduction technique by step error minimization for multivariable systems. **89e:93042**
Li, Wen Qing Applications of number theory to control systems. (Chinese. English summary) **89j:93055**
Liu, Ch'ing T'ien (*with* Chou, Yi Shyong) Successive parameter estimation of continuous dynamic systems. **89f:93010**
Manuĭlov, Yu. S. A logical-analytic method for the design of controllers in the form of feedback. (Russian. English summary) **89e:93097**
McTavish, Donald J. *see* **Hughes, Peter C.,** (Not in MR)
Middleton, R. *see* **Goodwin, Graham C., 89a:93032**
Moore, John Barratt Convergence of continuous time stochastic ELS parameter estimation. **89h:93053**
Nikitin, Sergei Vyacheslavovich *see* **Emel′yanov, S. V.; et al., 89c:93009**
Nishikawa, Yoshikazu *see* **Sannomiya, N.; et al., 89j:49029**
Okubo, Masatoshi *see* **Sannomiya, N.; et al., 89j:49029**
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Parodi, Franco Some nonlinear solvable universes of continuous-time devices. (Italian. English summary) **89b:93013**
Pestien, Victor C. (*with* Sudderth, William D.) Continuous-time casino problems. **89f:93047**
Pham Tran Nhu Feedback control under jump Markov and independent increment disturbances. **89d:93121**
Prasada Rao, Ganti *see* **Unbehauen, H., 89b:93050**
Qin, Xia (*with* Han, Jian Xun) The identification of linear continuous-time systems from small samples of input-output data. (Chinese. English summary) (Not in MR)
Rabah, R. (*with* Ionescu, D.) Stabilization problem in Hilbert spaces. **89c:93059**
Salam, Fathi M. A. (*with* Bai, Shi) Complicated dynamics of a prototype continuous-time adaptive control system. **89h:93035**
Sangsuk-Iam, Suwanchai (*with* Bullock, Thomas E.) Analysis of continuous-time Kalman filtering under incorrect noise covariances. **89k:93207**
Sannomiya, N. (*with* Nishikawa, Yoshikazu; Okubo, Masatoshi; Tsuda, Takashi) Optimal control of system with continuous and discrete state variables. **89j:49029**
de la Sen, Manuel A Lyapunov-Poincaré stability analysis for nonperiodic sampling systems. **89b:93096**
Smirnova, T. G. *see* **Ionova, I. V., 89e:93005**
Sorkin, L. R. *see* **Itskovich, È. L.,** (Not in MR)
Sudderth, William D. *see* **Pestien, Victor C., 89f:93047**
Sun, J. *see* **Ioannou, P. A., 89f:93014**
Sun, You Xian (*with* Wang, Qing Guo) Observer design for bilinear multivariable systems with unknown disturbance. (Chinese summary) **89k:93028**
Tomizuka, Masayoshi On a relaxation of SPR condition in parallel MRAS—continuous-time case. (Not in MR)
Tsuda, Takashi *see* **Sannomiya, N.; et al., 89j:49029**
Unbehauen, H. (*with* Prasada Rao, Ganti) ★ Identification of continuous systems. **89b:93050**
Wang, Qing Guo *see* **Sun, You Xian, 89k:93028**
Wei, K. H. (*with* Barmish, B. Ross) An iterative design procedure for simultaneous stabilization of MIMO systems. **89k:93180**
Wilson, D. A. Convolution and Hankel operator norms for linear systems. **89k:93062**
Yahagi, Takashi Minimax observers. **89k:93029**
Yakubovich, V. A. Adaptive stabilization of continuous linear objects. **89m:93053**

93C75 Applications of control theory

Abdel-Salam, M. *see* **Fetih, N.; et al.,** (Not in MR)
Abzianidze, D. V. *see* **Andreev, N. V.,** (Not in MR)
Ailon, A. (*with* Langholz, G.) A study of controllability and time-optimal control of a robot model with drive train compliances and actuator dynamics. (Not in MR)
Andreev, N. V. (*with* Abzianidze, D. V.) A problem of the optimization of the broaching process in pipe rolling production. (Russian) (Not in MR)
Aoki, Takashi *see* **Ohta, Hirobumi; et al.,** (Not in MR)
Artyushenko, M. V. Control of the kinematic parameters of motion of a rigid body on the basis of visual information. (Russian) (Not in MR)
Auzinger, D. (*with* Wacker, Hj.) First steps to an on-line control for pusher type reheating furnaces. (*see* **89b:90117**)
Bar-Itzhack, I. Y. (*with* Berman, N.) Control theoretic approach to inertial navigation systems. **89j:93077**

Barossov, Krasimir R. An optimal control of the service in a system with evident and latent service breakdowns. (Bulgarian summary) **89d:93066**
Bauer, Wolfgang ★ Optimal control of storage power plants. **89i:93082**
Bayard, David S. (*with* Wen, John T.) New class of control laws for robotic manipulators. II. Adaptive case. (Not in MR)
— *see also* **Wen, John T.**, (Not in MR)
Bellizzi, Serge (*with* Bouc, Robert; Campillo, Fabien; Pardoux, É.) Contrôle optimal semi-actif de suspension de véhicule. (English summary) [Semi-active optimal control of vehicle suspension] (*see* **89c:00031**)
Berman, N. *see* **Bar-Itzhack, I. Y., 89j:93077**
Bertran, E. (*with* San-Martín, M.) Comparative study of different adaptive strategies for a robot joint control. **89b:93075**
Beumee, J. G. B. (*with* Rabitz, Herschel) On the use of filtering theory for the inversion of temporal chemical systems: mathematical formulation. **89e:93148**
Bordley, Robert F. When present value equals the change in the Hamiltonian. (Not in MR)
Bouc, Robert *see* **Bellizzi, Serge; et al.**, (**89c:00031**)
Brown, David P. *see* **Wu, Jinn-Wen**, (Not in MR)
Brucoli, Michele (*with* La Scala, Massimo; Torelli, Francesco; Trovato, Michele) Overlapping decomposition for small disturbance stability analysis of interconnected power networks. (Not in MR)
Bukov, V. N. (*with* Chudinova, V. G.) Optimization of the motion of a nonlinear object on the basis of a forecasting model. (Not in MR)
Burke, Shawn E. (*with* Hubbard, James E., Jr.) Distributed actuator control design for flexible beams. (Not in MR)
Campillo, Fabien *see* **Bellizzi, Serge; et al.**, (**89c:00031**)
Chang, P. R. *see* **Lee, C. S. G.**, (Not in MR)
Chen, Qing Quan *see* **Wu, Jie^2; et al., 89g:93065**
Chen, Ye-Hwa (*with* Pandey, Sandeep) Robust control strategy for take-off performance in a windshear. **89m:93058**
Cherchas, Dale B. *see* **Marchand, Pauline A.; et al.**, (Not in MR)
Chernomzav, I. Z. (*with* Vaĭman, M. Ya.) An estimate of dynamic stability of a power system using the Lyapunov function and an analogous model. (Russian) (*see* **89i:00023**)
Chiang, Hsiao-Dong (*with* Wu, Felix F.; Varaiya, P.) Foundations of the potential energy boundary surface method for power system transient stability analysis. **89c:93054**
Chizeck, Howard J. *see* **Voss, G. I.; et al.**, (Not in MR)
Christensen, G. S. *see* **Soliman, S. A., 89e:93151** *and* (Not in MR)
Chudinova, V. G. *see* **Bukov, V. N.**, (Not in MR)
Dahleh, Mohammed *see* **Peirce, Anthony P.; et al., 89h:93041**
Danilov, V. Ya. (*with* Nakonechnyĭ, A. G.) Problems of the optimization of wave fields in hydroacoustics. (Russian) **89h:93040**
Dargeĭko, M. M. (*with* Loginov, A. A.; Samoĭlenko, Yu. I.) Control of rapid processes in continuous conducting media. **89k:93146**
Doyle, John C. *see* **Skogestad, Sigurd; et al.**, (Not in MR)
Dudek, Kenneth P. (*with* Sain, Michael K.) A control-oriented model for cylinder pressure in internal combustion engines. (Not in MR)
El-Sayed, E. M. *see* **Fetih, N.; et al.**, (Not in MR)
Eslami, Mansour *see* **Jeon, Hong Tae**, (Not in MR)
Fetih, N. (*with* Abdel-Salam, M.; El-Sayed, E. M.) The use of integral cycle switching for control of three-phase induction motors. (Russian summary) (Not in MR)
Frolov, E. B. *see* **Solomentsev, Yu. M., 89d:93068**
Fujimoto, Takayuki *see* **Hoshino, Ikuya; et al.**, (Not in MR)
Gao, Wei Bing (*with* Wu, Dong Nan) On the optimization and global linearization of nonlinear mechanical systems. (Chinese. English summary) (Not in MR)
Garg, Sanjay (*with* Schmidt, David K.) Cooperative synthesis of control and display augmentation. (Not in MR)
Glushchenko, O. A. *see* **Tretyak, V. P.; et al.**, (Not in MR)
Gourishankar, V. G. *see* **Rink, R. E.; et al.**, (Not in MR) *and* **Zaheer-uddin, M.; et al.**, (Not in MR)
Guan, Yan Shen *see* **Yarng, Jiahn Bo**, (Not in MR)
Guardabassi, G. (*with* Righettini, A.; Ruffoni, I.) Output linearizable models and nonlinear control of a distillation column. (Russian and Polish summaries) **89b:93076**
Hall, Shawn A. Real-time control of a nonlinear electromagnetic actuator. (Not in MR)
Han, Chong Zhao (*with* Wang, Li Qi; Wan, Bai Wu) A decomposition-coordination algorithm for multivariable self-tuning control. (Chinese. English summary) **89j:93078**
He, Xiang Wei *see* **Ye, Xiao Ye, 89b:93078**
Higuchi, Tatsuo *see* **Huang, Xi Yue; et al.**, (Not in MR)
Hogg, B. W. *see* **Wu, Q. H.**, (Not in MR)
Hoshino, Ikuya (*with* Maekawa, Yukihiro; Fujimoto, Takayuki; Kimura, Hiroshi^2; Kimura, Hidenori) Observer-based multivariable control of the aluminum cold tandem mill. (Not in MR)
Hu, Ya Guang *see* **Li, Xi Guang, 89g:93064** *and* **Yu, Ming**, (Not in MR)
Huang, Garng *see* **Zaborszky, John; et al., 89a:93037**
Huang, Xi Yue (*with* Kameyama, Michitaka; Higuchi, Tatsuo) Design of a time-optimal digital control system for a DC-servomotor with amplitude limitation. (Not in MR)
Huang, Yi Fu *see* **Liu, Mei Hua; et al.**, (Not in MR)
Hubbard, James E., Jr. *see* **Burke, Shawn E.**, (Not in MR)
Itskovich, È. L. (*with* Sorkin, L. R.) Statistical optimization of continuous production: formulation of the problem, solution and realization. (Not in MR)
Janiszowski, K. *see* **Kortmann, M.; et al.**, (Not in MR)
Jeon, Hong Tae (*with* Eslami, Mansour) Optimal time joint-trajectory planning for an industrial manipulator using linear interpolation. (Not in MR)
Juraidan, M. *see* **Salman, Mutasim A.; et al.**, (Not in MR)
Kaizu, Hiroyuki *see* **Taniguchi, Tsuneo, 89k:93151**
Kameyama, Michitaka *see* **Huang, Xi Yue; et al.**, (Not in MR)
Katona, P. G. *see* **Voss, G. I.; et al.**, (Not in MR)
Kaźmierkowski, M. P. *see* **Nilsen, R.**, (Not in MR)
Khorasani, K. (*with* Pai, M. A.) Two time scale decomposition and stability analysis of power systems. **89c:93055**
Kimura, Hidenori *see* **Hoshino, Ikuya; et al.**, (Not in MR)
Kimura, Hiroshi^2 *see* **Hoshino, Ikuya; et al.**, (Not in MR)
Kirsch, Andreas (*with* Wilde, Peter) The optimization of directivity and signal-to-noise ratio of an arbitrary antenna array. **89b:93077**
Kocherga, Yu. L. Minimax control optimization in hydrological processes. **89j:93079**
de Koning, W. L. *see* **Wagenaar, T. J. A.**, (Not in MR)
Kortmann, M. (*with* Janiszowski, K.; Unbehauen, H.) Application and comparison of different identification schemes under industrial conditions. (Not in MR)
Kotob, S. *see* **Salman, Mutasim A.; et al.**, (Not in MR)
Ladikov, Yu. P. (*with* Samoĭlenko, L. I.) Methods and means of control of rapidly flowing electromagnetic processes. (Russian) (Not in MR)
Laitinen, Erkki Juhani (*with* Neittaanmäki, Pekka) On numerical solution of the problem connected with the control of the secondary cooling in the continuous casting process. (Not in MR)
Lane, Stephen H. (*with* Stengel, Robert F.) Flight control design using nonlinear inverse dynamics. (Not in MR)
Langholz, G. *see* **Ailon, A.**, (Not in MR)
La Scala, Massimo *see* **Brucoli, Michele; et al.**, (Not in MR)
Lawrence, Peter D. *see* **Marchand, Pauline A.; et al.**, (Not in MR)
Lee, C. S. G. (*with* Chang, P. R.) Efficient parallel algorithms for robot forward dynamics computation. (Not in MR)
Leung, Tin-Chi *see* **Zaborszky, John; et al., 89a:93037**
Li, Mi Sun The finite time rotation control of a rigid body. (Korean. English summary) (Not in MR)
Li, Xi Guang (*with* Hu, Ya Guang) A trajectory-tracking control scheme for robotic manipulators. (Chinese. English summary) **89g:93064**
Lin, Li Chang (*with* Yüan, Ching) An external linearization approach to the control of industrial robots with flexible joints. (Chinese summary) (Not in MR)
Lin, Wei^2 *see* **Liu, Mei Hua; et al.**, (Not in MR)
Lindner, Ewald H. ★ Models for the optimal control of storage power plants. **89i:93081**
Linkens, D. A. *see* **Mansour, N. E., 89i:93083**
Liu, Mei Hua (*with* Lin, Wei^2; Huang, Yi Fu) A decentralized self-tuning controller with gravity compensation for robotic manipulators. (Chinese. English summary) (Not in MR)
Loginov, A. A. *see* **Dargeĭko, M. M.; et al., 89k:93146**
Lomaka, M. V. (*with* Medvedev, I. V.) Construction of an equivalent model of a discrete system with several impulse elements. (Not in MR)
Lü, Yong Zai *see* **Zhao, Xia**, (Not in MR)
Luo, Qi Xia *see* **Wu, Jie^2; et al., 89g:93065**
Lutze, F. H. *see* **Vasudevan, Gopal**, (Not in MR)
Maekawa, Yukihiro *see* **Hoshino, Ikuya; et al.**, (Not in MR)
Malinowski, Krzysztof Decentralised adaptive controllers for robotic manipulators. (Russian and Polish summaries) **89d:93067**
Mallieu, D. *see* **Rousseaux, P.; et al.**, (Not in MR)
Mansour, N. E. (*with* Linkens, D. A.) Pole-assignment self-tuning control of blood pressure in postoperative patients: a simulation study. **89i:93083**
Marchand, Pauline A. (*with* Lawrence, Peter D.; Cherchas, Dale B.) A discrete-time optimal adaptive control law for a robot arm. (Not in MR)
McClamroch, N. Harris (*with* Wang, Danwei) Feedback stabilization and tracking of constrained robots. (Not in MR)
Medvedev, I. V. *see* **Lomaka, M. V.**, (Not in MR)
Melvin, W. W. *see* **Miele, A.; et al., 89k:93147** *and* (Not in MR)
Michel, A. N. *see* **Vittal, Vijay**, (Not in MR)
Miele, A. (*with* Wang, Tong; Melvin, W. W.) Quasi-steady flight to quasi-steady flight transition for abort landing in a windshear: trajectory optimization and guidance. (Not in MR)
— (*with* Wang, Tong; Tzeng, C. Y.; Melvin, W. W.) Abort landing guidance trajectories in the presence of windshear. **89k:93147**
Morari, Manfred *see* **Skogestad, Sigurd; et al.**, (Not in MR)
Nagahama, Kazuo *see* **Tamura, Hiroyuki**, (Not in MR)
Nakonechnyĭ, A. G. *see* **Danilov, V. Ya., 89h:93040**
Neittaanmäki, Pekka *see* **Laitinen, Erkki Juhani**, (Not in MR)
Nikiforuk, P. N. *see* **Ohta, Hirobumi; et al.**, (Not in MR)
Nilsen, R. (*with* Kaźmierkowski, M. P.) Reduced-order observer with parameter adaption for fast rotor flux estimation in induction machines. (Not in MR)
Noldus, E. Finite-dimensional approximate observers for a class of transportation systems. (Not in MR)
Nour Eldin, H. A. (*with* Stelter, R.) A fast algorithm for the simulation of gas flow in long pipelines. (Russian summary) (Not in MR)
Ohkami, Y. *see* **Yamada, K.; et al.**, (Not in MR)
Ohta, Hirobumi (*with* Aoki, Takashi; Nikiforuk, P. N.) Spillover prevention and control of flexible structures using modal filters. (Not in MR)
Pai, M. A. *see* **Khorasani, K., 89c:93055**
Pandey, Sandeep *see* **Chen, Ye-Hwa, 89m:93058**
Pardoux, É. *see* **Bellizzi, Serge; et al.**, (**89c:00031**)
Peirce, Anthony P. (*with* Dahleh, Mohammed; Rabitz, Herschel) Optimal control of quantum-mechanical systems: existence, numerical approximation, and applications. **89h:93041**
Petriczek, Grażyna (*with* Uhrynowski, Zygmunt) On the use of multilevel dynamic optimization in water management systems. (Russian summary) (Not in MR)
Popov, A. V. *see* **Tretyak, V. P.; et al.**, (Not in MR)
Putyatin, V. P. *see* **Stoyan, Yu. G., 89k:93150**
Quintana, V. H. (*with* Van Cutsem, Th.) Power system network parameter estimation. **89j:93080**
Rabitz, Herschel *see* **Beumee, J. G. B., 89e:93148** *and* **Peirce, Anthony P.; et al., 89h:93041**
Rafatov, R. R. Optimal control of a process of particle transport under incomplete measurement. (Russian) **89e:93149**
(Rees, D.) *see* **Industrial digital control systems**, (Not in MR)
Reghiş, M. *see* **Stepan, Aurel, 89m:93059**
Ribbens-Pavella, M. *see* **Rousseaux, P.; et al.**, (Not in MR)
Righettini, A. *see* **Guardabassi, G.; et al., 89b:93076**
Rink, R. E. (*with* Gourishankar, V. G.; Zaheer-uddin, M.) Optimal control of heat-pump/heat-storage systems with time-of-day energy price incentive. (Not in MR)

— *see also* **Zaheer-uddin, M.; et al.**, (Not in MR)

Romanenko, V. D. Optimal adaptive control of nonlinear multidimensional technological plants with an estimation of parameters and state variables. (Russian) (Not in MR)

Rousseaux, P. (*with* Mallieu, D.; Van Cutsem, Th.; Ribbens-Pavella, M.) Dynamic state prediction and hierarchical filtering for power system state estimation. (Not in MR)

Ruffoni, I. *see* **Guardabassi, G.; et al., 89b:93076**

Sain, Michael K. *see* **Dudek, Kenneth P.**, (Not in MR)

Sakawa, Yoshiyuki *see* **Sato, Kiminori, 89k:93149**

Salman, Mutasim A. (*with* Kotob, S.; Juraidan, M.) Optimal control of solar cooling systems. (Not in MR)

Samoĭlenko, L. I. *see* **Ladikov, Yu. P.**, (Not in MR)

Samoĭlenko, Yu. I. Problem of microcontrol in continuum. **89k:93148**

— *see also* **Dargeĭko, M. M.; et al., 89k:93146**

San-Martín, M. *see* **Bertran, E., 89b:93075**

Sato, Kiminori (*with* Sakawa, Yoshiyuki) Modelling and control of a flexible rotary crane. **89k:93149**

Sauer, P. W. Applications of integral manifolds to power system studies. **89e:93150**

Schmidt, David K. *see* **Garg, Sanjay**, (Not in MR)

de la Sen, Manuel (*with* Soto, J. C.) Adaptive control for a d.c. motor controlled by a group of amplidynes using bilinear models. (Not in MR)

Singh, N. P. (*with* Singh, Yashwant P.) Power system excitation and governor control design via time-scale decomposition. (Not in MR)

Singh, Sahjendra N. Rotational maneuver of nonlinear uncertain elastic spacecraft. (Not in MR)

Singh, Yashwant P. *see* **Singh, N. P.**, (Not in MR)

Skogestad, Sigurd (*with* Morari, Manfred; Doyle, John C.) Robust control of ill-conditioned plants: high-purity distillation. (Not in MR)

Slavov, V. A. A mathematical model for the suspension of a free body in a field of ideal current rings. (Russian) (*see* **89a:93001**)

Soliman, S. A. (*with* Christensen, G. S.) Optimization of hydropower systems operation with a quadratic model. (Not in MR)

— (*with* Christensen, G. S.) Optimization of reservoirs in series on a river with a nonlinear storage curve for long-term regulation. **89e:93151**

Solomentsev, Yu. M. (*with* Frolov, E. B.) The mathematical model of flexible machining-cell. (Russian summary) **89d:93068**

Sorkin, L. R. *see* **Itskovich, È. L.**, (Not in MR)

Soto, J. C. *see* **de la Sen, Manuel**, (Not in MR)

Stelter, R. *see* **Nour Eldin, H. A.**, (Not in MR)

Stengel, Robert F. *see* **Lane, Stephen H.**, (Not in MR)

Stepan, Aurel (*with* Reghiş, M.) Optimal control for distillation processes in plate rectification columns. **89m:93059**

Stojić, R. *see* **Vukobratović, M.**, (Not in MR)

Stoyan, Yu. G. (*with* Putyatin, V. P.) ★ Оптимизация технических систем с источниками физических полей. (Russian) [Optimization of technical systems with sources of physical fields] **89k:93150**

Tamura, Hiroyuki (*with* Nagahama, Kazuo) Decentralized adaptive control of robotic manipulators. (Not in MR)

Taniguchi, Tsuneo (*with* Kaizu, Hiroyuki) New approach to the synthesis of a stabilizing control method for a power system. **89k:93151**

Tikhonovetskiĭ, S. A. On the optimization of cyclic operating modes of an electric drive. (Russian) (Not in MR)

Torelli, Francesco *see* **Brucoli, Michele; et al.**, (Not in MR)

Tretyak, V. P. (*with* Voronyuk, L. V.; Glushchenko, O. A.; Popov, A. V.) On the solution of a problem of the optimal control of laser work on pairs of metals. (Russian) (Not in MR)

Trovato, Michele *see* **Brucoli, Michele; et al.**, (Not in MR)

Tsuchiya, K. *see* **Yamada, K.; et al.**, (Not in MR)

Tu, Qi Li (*with* Zhang, Xi Chun) Closed-loop identification of transfer functions of a glass furnace. (Chinese summary) **89j:93081**

Tzeng, C. Y. *see* **Miele, A.; et al., 89k:93147**

Uhrynowski, Zygmunt *see* **Petriczek, Grażyna**, (Not in MR)

Unbehauen, H. *see* **Kortmann, M.; et al.**, (Not in MR)

Uzdemir, A. P. Optimal control of new technology development while it replaces a low technology. **89j:93082**

Vaĭman, M. Ya. *see* **Chernomzav, I. Z.**, (**89i:00023**)

Van Cutsem, Th. *see* **Quintana, V. H., 89j:93080** *and* **Rousseaux, P.; et al.**, (Not in MR)

Varaiya, P. *see* **Chiang, Hsiao-Dong; et al., 89c:93054**

Vasudevan, Gopal (*with* Lutze, F. H.) On verification of fuel-optimal space trajectories. (Not in MR)

Verhaegen, M. H. Robust adaptive flight-path reconstruction technique for nonsteady longitudinal flight test maneuvers. (Not in MR)

Virnovskiĭ, G. A. Optimal control of multiphase filtration flow in an oil layer. (Russian) **89f:93029**

Vittal, Vijay (*with* Michel, A. N.) A variational principle for nonconservative power systems. (Not in MR)

Volkov, N. P. Optimal control of sources in some neutron transport processes. (Russian) **89d:93069**

Voronyuk, L. V. *see* **Tretyak, V. P.; et al.**, (Not in MR)

Voss, G. I. (*with* Chizeck, Howard J.; Katona, P. G.) Self-tuning controller for drug delivery systems. (Not in MR)

Vukobratović, M. (*with* Stojić, R.) ★ Modern aircraft flight control. (Not in MR)

Wacker, Hj. *see* **Auzinger, D.**, (**89b:90117**)

Wagenaar, T. J. A. (*with* de Koning, W. L.) Stability and stabilizability of chemical reactors modelled with stochastic parameters. (Not in MR)

Wan, Bai Wu *see* **Han, Chong Zhao; et al., 89j:93078**

Wang, Bai Lin Model reference adaptive control for a hydroelectric generating system. (Chinese. English summary) (Not in MR)

Wang, Danwei *see* **McClamroch, N. Harris**, (Not in MR)

Wang, Ding Wei A method of identification of efficiency curves of multi-fuel boilers. (Chinese. English summary) (Not in MR)

Wang, Li Qi *see* **Han, Chong Zhao; et al., 89j:93078**

Wang, P. K. C. Feedback control of vibrations in an extendible cantilever sweptback wing. (*see* **89c:00031**)

Wang, Tong *see* **Miele, A.; et al., 89k:93147** *and* (Not in MR)

Wang, Xia Chao *see* **Yang, Xue Shi**, (Not in MR)

Warczyński, Jarosław (*with* Wróblewski, Waldemar) Inverse dynamics algorithm for robot manipulators. **89k:93152**

(Warwick, Kevin) *see* **Industrial digital control systems**, (Not in MR)

Wen, John T. (*with* Bayard, David S.) New class of control laws for robotic manipulators. I. Nonadaptive case. (Not in MR)

— *see also* **Bayard, David S.**, (Not in MR)

Wiesel, William E. Optimal payload lofting with tethers. (Not in MR)

Wilde, Peter *see* **Kirsch, Andreas, 89b:93077**

Wróblewski, Waldemar *see* **Warczyński, Jarosław, 89k:93152**

Wu, Dong Nan *see* **Gao, Wei Bing**, (Not in MR)

Wu, Felix F. *see* **Chiang, Hsiao-Dong; et al., 89c:93054**

Wu, Jie^2 (*with* Chen, Qing Quan; Luo, Qi Xia) Decoupling-adaptive control of induction motors. (Chinese. English summary) **89g:93065**

Wu, Jinn-Wen (*with* Brown, David P.) On the stability of shift variant discrete systems. (Not in MR)

Wu, Q. H. (*with* Hogg, B. W.) Robust self-tuning regulator for a synchronous generator. (Not in MR)

Yamada, K. (*with* Tsuchiya, K.; Ohkami, Y.) Dynamical models for a flexible multibody system. (Not in MR)

Yang, Xue Shi (*with* Wang, Xia Chao) A numerical analysis of dynamic responses for transpiration control. (Chinese. English summary) (Not in MR)

Yarng, Jiahn Bo (*with* Guan, Yan Shen) Optimal control of supersonic inlet/engine combination. (Not in MR)

Ye, Xiao Ye (*with* He, Xiang Wei) Feedback control for the attitude control system of an elastic space vehicle. (Chinese. English summary) **89b:93078**

You, Yun Cheng Dynamical boundary control of two-dimensional Petrovsky system: vibrating rectangular plate. **89e:93152**

Yu, Ming (*with* Hu, Ya Guang) A self-tuning control algorithm for robotic manipulators. (Chinese. English summary) (Not in MR)

Yüan, Ching *see* **Lin, Li Chang**, (Not in MR)

Zaborszky, John (*with* Huang, Garng; Zheng, Baohua; Leung, Tin-Chi) On the phase portrait of a class of large nonlinear dynamic systems such as the power system. **89a:93037**

Zaheer-uddin, M. (*with* Gourishankar, V. G.; Rink, R. E.) Dynamic suboptimal control of a heat pump/heat storage system. (Not in MR)

— *see also* **Rink, R. E.; et al.**, (Not in MR)

Zhang, Xi Chun *see* **Tu, Qi Li, 89j:93081**

Zhao, Xia (*with* Lü, Yong Zai) A nonlinear model for a fluidized catalytic cracking system, and estimation of its parameters. (Chinese. English summary) (Not in MR)

Zheng, Baohua *see* **Zaborszky, John; et al., 89a:93037**

Items listed otherwise than by author

Industrial digital control systems ★ Industrial digital control systems. (Not in MR)

Lecture Notes in Control and Information Sciences *see* **Vukobratović, M.**, (Not in MR)

Items with secondary classifications in 93C75

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— (*with* Sadek, Ibrahim S.; Sloss, J. M.; Bruch, J. C., Jr.) Distributed control of layered orthotropic plates with damping. **89d:49001**

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Bayard, David S. (*with* Hadaegh, F. Y.; Meldrum, D. R.) Optimal experiment design for identification of large space structures. **89d:93035**

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Golubev, Yu. F. (*with* Grushevskiĭ, A. V.; Khaĭrullin, R. Z.) Control laws that ensure maximal range for the descent of a satellite in the atmosphere. (Russian. English summary) **89b:65156**
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Khaĭrullin, R. Z. *see* **Golubev, Yu. F.; et al.**, **89b:65156**
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Kong, De Yong *see* **Song, Jian; et al.**, (**89d:00007**)
Koruga, Djuro *see* **Masnikosa, Vukasin P.**, (**89a:94001**)
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Li, Zhong Liang *see* **Liu, Kun Lin; et al.**, **89h:90063**
Lim, Cheng-Chew *see* **Teo, Kok-Lay**, **89a:93022**
Lin, Hsien Hsiang *see* **Hsü, Tê Hsiu**, **89j:93062**
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Nitka-Styczeń, Krystyna *see* **Styczeń, Krystyn**, **89c:49027**
Nozhak, G. V. *see* **Diordiev, N. D.**, (**89b:00008**)
Obstfeld, Maurice *see* **Calvo, Guillermo A.**, **89c:90039**
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Olhoff, Niels *see* **Bendsøe, Martin P.; et al.**, **89f:73055**
(O'Reilly, John) *see* **Multivariable control for industrial applications**, (Not in MR)
Orr, C. H. *see* **Coulbeck, B.; et al.**, (Not in MR)
Palanki, Srinivas *see* **Kravaris, Costas**, **89j:93036**
Parmaste, I. L. *see* **Zgurovskiĭ, M. Z.; et al.**, (Not in MR)
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Sano, Jun *see* **Eto, Hajime, 89j:92073**

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Schechner, Zvi *see* **Yao, David D., 89j:90130**

Selin, A. N. *see* **Zgurovskiĭ, M. Z.; et al.**, (Not in MR)

Seoane, M. *see* **Trubuil, A.; et al., 89m:92032**

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Trippler, Gisela *see* **Reyman, Grzegorz; et al.**, (Not in MR)

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Wong, D. *see* **Yang, J. N.; et al., 89j:73076**

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Yang, Gong Pu *see* **Tang, Jian Zhong; et al.**, (Not in MR)

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Multivariable control for industrial applications ★ Multivariable control for industrial applications. (Not in MR)

93C99 None of the above, but in this section

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Items with secondary classifications in 93C99

Chang, Kun Soo *see* **Lee, Kwang Soon**, (Not in MR)

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93Dxx Stability

Megan, M. *see* **Preda, P., 89f:93030**

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93D05 Lyapunov stability

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(Basher, A. M. Hasanul) *see* **Cheres, E.**, (Not in MR)

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Hirsch, Morris W. *see* **Chiang, Hsiao-Dong; et al.**, **89c:58064**

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93D10 Popov-type stability of feedback systems

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Bai, Er Wei Adaptive regulation of discrete time systems by switching control. **89e:93156**

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Wu, Chin Fu *see* **Chuang, Yao T'ang; et al., 89a:93040**
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Yakubovich, V. A. A frequency theorem for periodic systems and the theory of analytic construction of controllers. (Russian) **89f:93033**
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Yudkevich, M. L. *see* **Gelig, A. Kh.; et al., 89e:93157**

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Burkin, I. M. Necessary conditions for the stability of multiply connected control systems in the critical case of two zero roots. (Russian) **89k:34076**
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Irving, E. *see* **Najim, K.; et al.**, (Not in MR)
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Lee, Sang Jeong *see* **Kwon, W. H., 89d:34125**
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Logemann, Hartmut (*with* Owens, D. H.) Robust high-gain feedback control of infinite-dimensional minimum-phase systems. **89e:93180**
Luo, Ning Su *see* **Feng, Chun Bo; et al., 89c:93049**
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Najim, M. *see* **Najim, K.; et al.**, (Not in MR)
Owens, D. H. *see* **Logemann, Hartmut, 89e:93180**
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Sadykov, F. R. A graphical frequency criterion for L_2-stability for multidimensional nonstationary dynamical systems. **89e:93134**
Smirnova, V. B. *see* **Leonov, G. A., 89c:45024**
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Tadjbakhsh, I. G. *see* **Anderson, Gary L., 89f:70040**
Townley, S. *see* **Pritchard, A. J., 89e:93074**
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Yasuda, Kazunori Decentralized optimal control for large-scale interconnected systems. **89e:93011**
Youlal, H. *see* **Najim, K.; et al.**, (Not in MR)
Zheng, Hui Heng Stability of nonlinear control systems with time lag. **89d:34133**

93D15 Stabilization of systems by feedback

Aeyels, Dirk Local and global stabilizability for nonlinear systems. **89d:93077**
Ahmed, N. U. *see* **Li, Peng, 89k:93172**
Al-Fuhaid, A. S. *see* **Bahnasawi, Ahmed A.; et al., 89i:93085**
Andreini, Alessandra (*with* Bacciotti, Andrea; Stefani, Gianna) On the stabilizability of homogeneous control systems. (*see* **89c:00031**)
— (*with* Bacciotti, Andrea; Stefani, Gianna) Global stabilizability of homogeneous vector fields of odd degree. **89h:93044**
Antonchik, V. S. Construction of a dynamic controller for a linear control system. **89j:93088**
Arapostathis, Aristotle *see* **Yong, Jiong Min, 89g:93076**
Bacciotti, Andrea The local stabilizability problem for nonlinear systems. **89d:93078**
— *see also* **Andreini, Alessandra; et al., 89h:93044** *and* (**89c:00031**)
Bahnasawi, Ahmed A. (*with* Al-Fuhaid, A. S.; Mahmoud, Magdi S.) Linear feedback approach to the stabilisation of uncertain discrete systems. **89i:93085**
Balakrishnan, A. V. Control of flexible flight structures. **89j:93089**
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Benzaouia, Abdellah (*with* Burgat, Christian) Stabilizing regulators for uncertain discrete-time linear systems. (French summary) **89e:93162**
Bernstein, Dennis S. (*with* Haddad, Wassim M.) The optimal projection equations with Petersen-Hollot bounds: robust stability and performance via fixed-order dynamic compensation for systems with structured real-valued parameter uncertainty. (Not in MR)
Berrahmoune, Larbi Stabilisation d'une classe de systèmes distribués hyperboliques. (English summary) [Stabilization of a class of hyperbolic distributed systems] **89e:93163**
Bhattacharyya, Shankar Prashad ★ Robust stabilization against structured perturbations. **89b:93085**
— (*with* Keel, L. H.; Howze, J. W.) Stabilizability conditions using linear programming. (Not in MR)
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Burgat, Christian *see* **Benzaouia, Abdellah, 89e:93162**
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Dai, Li Yi Structural stability for singular systems—a quantitative approach. **89g:93072**
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Desoer, C. A. (*with* Kabuli, M. G.) Stabilization and robustness of nonlinear unity-feedback system: factorization approach. **89a:93042**
Eldem, Vasfi *see* **Selbuz, Hasan, 89i:93094**
El-Sakkary, Ahmed K. Estimating the robust dead time for closed-loop stability. (Not in MR)
Evans, Robin J. *see* **Soh, Y. C., 89k:93174**
(Fielder, M.) *see* **Benzaouia, Abdellah, 89e:93162**
Gao, Wei Bing *see* **Shi, Zhi Cheng**, (Not in MR)
Gilbert, E. G. *see* **Keerthi, S. S., 89d:93082**
Golema, Marian (*with* Jaśkiewicz, Genadiusz) Identification of the balance keeping process in standing position in the presence of short-term disturbances. (Polish. English and Russian summaries) (Not in MR)
Goodall, D. P. (*with* Ryan, E. P.) Feedback controlled differential inclusions and stabilization of uncertain dynamical systems. **89m:93066**
Grishin, S. A. The second method of Lyapunov in problems of the control of motion. (Russian) **89d:93079**
— Synthesis of nonlinear control laws. **89m:93067**
Grizzle, Jessy W. *see* **Isidori, A., 89i:93088**
Gusev, S. V. Linear stabilization of nonlinear systems program motion. **89k:93164**
Haddad, Wassim M. *see* **Bernstein, Dennis S.**, (Not in MR)
Hannsgen, Kenneth B. (*with* Renardy, Yuriko; Wheeler, Robert L.) Effectiveness and robustness with respect to time delays of boundary feedback stabilization in one-dimensional viscoelasticity. **89k:93165**
Hashizume, Hidekuni *see* **Kawabata, Hiroaki; et al., 89k:93167**
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Hopkins, William E., Jr. Optimal stabilization of families of linear stochastic differential equations with jump coefficients and multiplicative noise. **89d:93080**
Howze, J. W. *see* **Bhattacharyya, Shankar Prashad; et al., 89b:93086** *and* (Not in MR)
Hsia, Kuo Hsien *see* **Hsieh, Chê Kuang, 89g:93073**
Hsieh, Chê Kuang (*with* Shih, Chên Fêng) σ-stability and characterization of all σ-stabilizing compensators. (Chinese summary) **89d:93081**
— (*with* Hsia, Kuo Hsien) Inverse problems of linear feedback control systems: stabilization, tracking and disturbance rejection. (Chinese summary) **89g:93073**
Hu, Bao Sheng *see* **Wu, Nai Qi; et al., 89j:93095**
Inagaki, Yoshio *see* **Kawabata, Hiroaki; et al., 89k:93167**
Ionescu, D. *see* **Rabah, R., 89c:93059**
Isidori, A. (*with* Grizzle, Jessy W.) Fixed modes and nonlinear noninteracting control with stability. **89i:93088**
— *see also* **Byrnes, Christopher I., 89g:93071** *and* **89i:93087**
Ito, Kazuho *see* **Kunimatsu, Noboru, 89k:93169**
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Jaśkiewicz, Genadiusz *see* **Golema, Marian**, (Not in MR)
Kabuli, M. G. *see* **Desoer, C. A., 89a:93042**
Kawabata, Hiroaki (*with* Hashizume, Hidekuni; Inagaki, Yoshio; Shirao, Yoshiaki; Nagahara, Toshikuni; Kido, Masao) A method of optimal control in nonlinear systems. **89k:93167**

Keel, L. H. *see* **Bhattacharyya, Shankar Prashad; et al., 89b:93086** *and* (Not in MR)
Keerthi, S. S. (*with* Gilbert, E. G.) Optimal infinite-horizon feedback laws for a general class of constrained discrete-time systems: stability and moving-horizon approximations. **89d:93082**
Khargonekar, Pramod P. *see* **Zhou, Kemin, 89c:93061** *and* **Rotea, Mario A., 89j:93092**
Kido, Masao *see* **Kawabata, Hiroaki; et al., 89k:93167**
Knobloch, H.-W. Stabilization of control systems by means of high-gain feedback. **89k:93168**
Kokame, Hideki *see* **Mori, Takehiro, 89f:93034**
Kolmanovskiĭ, V. B. On the stabilization of certain nonlinear systems. **89i:93089**
Korchanov, V. M. *see* **Vereneĭ, E. I., 89m:93070**
Krutin′, V. I. Stabilization of output signals in linear controllable systems within a finite time. **89i:93090**
Krut′ko, P. D. (*with* Lakota, N. A.) The inverse dynamics problems method in the theory of constructing algorithms for the control of manipulator robots. The stabilization problem. (Not in MR)
Kunimatsu, Noboru (*with* Ito, Kazuho) Stabilization of a nonlinear distributed parameter vibratory system. **89k:93169**
Lagnese, J. Note on boundary stabilization of wave equations. **89k:93170**
Lakota, N. A. *see* **Krut′ko, P. D.,** (Not in MR)
Laptinskiĭ, V. N. Stabilization of controllable nonlinear oscillations. (Russian. English summary) **89b:93088**
— A projection method for solving a problem of stabilizing periodic control systems. (Russian. English summary) **89i:93091**
— A method for stabilizing linear periodic control systems. (Russian. English summary) **89m:93068**
Lee, T. N. (*with* Radovic, U. L.) Decentralized stabilization of linear continuous and discrete-time systems with delays in interconnections. **89k:93171**
Leitmann, G. *see* **Breinl, W., 89a:93041**
Li, Ke Nan Study on the absolute stability of direct control system. **89g:93074**
Li, Peng (*with* Ahmed, N. U.) On exponential stability of infinite-dimensional linear systems with bounded or unbounded perturbations. **89k:93172**
Li, Ren Hou *see* **Wu, Nai Qi; et al., 89j:93095**
Lu, Hung Ching (*with* Ch′ên, Po Hsien) Stabilization of multivariable feedback systems with multiple time delays. **89g:93075**
Luse, D. W. A Nyquist-type stability test for multivariable distributed systems. **89d:93083**
Magaña, Mario E. (*with* Żak, S. H.) Robust state feedback stabilization of discrete-time uncertain dynamical systems. **89e:93167**
— (*with* Żak, S. H.) Robust output feedback stabilization of discrete-time uncertain dynamical systems. (Not in MR)
Mahmoud, Magdi S. *see* **Bahnasawi, Ahmed A.; et al., 89i:93085**
Mårtensson, Bengt Adaptive stabilization of general, multivariable, continuous- or discrete-time linear systems. (*see* **89b:93008**)
— Dynamic high-gain stabilization of multivariate linear systems, with application to adaptive control. **89j:93090**
— Adaptive stabilization without high-gain. **89i:93092**
Mellichamp, D. A. *see* **Benallou, A.; et al.,** (Not in MR)
Michel, A. N. *see* **Skaar, Steven B.; et al., 89a:93043**
Miller, Richard K. *see* **Skaar, Steven B.; et al., 89a:93043**
Moore, John Barratt *see* **Obinata, G., 89i:93093**
Mori, Takehiro (*with* Kokame, Hideki) Stabilization of perturbed systems via linear optimal regulator. **89f:93034**
Nagahara, Toshikuni *see* **Kawabata, Hiroaki; et al., 89k:93167**
Nambu, T. (*with* Rostamian, R.; Seidman, Thomas I.) Feedback stabilization of a marginally stable heat conduction problem. **89c:93058**
Nijmeijer, Henk *see* **van der Wegen, L. L. M., (89c:00031)**
Niu, Xiao Ming (*with* Niu, Xuan; Zhang, Zhong Jun) Decentralized stabilization of nonlinear large-scale system with singular perturbations. **89k:93173**
Niu, Xuan *see* **Niu, Xiao Ming; et al., 89k:93173**
Obinata, G. (*with* Moore, John Barratt) Characterization of controllers in simultaneous stabilization. **89i:93093**
Petersen, Ian R. Stabilization of an uncertain linear system in which uncertain parameters enter into the input matrix. **89m:93069**
— *see also* **Collado, Joaquín M., 89e:93165**
Polunin, I. A. Adaptive control of a nonminimal-phase linear discrete object. (Russian. English summary) **89d:93084**
Popchev, Ivan P. (*with* Savov, S.) An approach to the decentralized stabilization of linear continuous-time large scale systems. **89j:93091**
— Synthesis of a stabilizing decentralized control for linear large scale systems. (Not in MR)
Rabah, R. (*with* Ionescu, D.) Stabilization problem in Hilbert spaces. **89c:93059**
Radovic, U. L. *see* **Lee, T. N., 89k:93171**
Rapoport, L. B. *see* **Zelentsovskiĭ, A. L., 89e:93170**
Renardy, Yuriko *see* **Hannsgen, Kenneth B.; et al., 89k:93165**
Rostamian, R. *see* **Nambu, T.; et al., 89c:93058**
Rotea, Mario A. (*with* Khargonekar, Pramod P.) Stabilizability of linear time-varying and uncertain linear systems. **89j:93092**
Ryan, E. P. *see* **Goodall, D. P., 89m:93066**
Saberi, A. (*with* Sannuti, P.) Global stabilization with almost disturbance decoupling of a class of uncertain nonlinear systems. **89b:93089**
Sannuti, P. *see* **Saberi, A., 89b:93089**
Sastry, S. Shankar *see* **Behtash, S., 89i:93086**
Savov, S. *see* **Popchev, Ivan P., 89j:93091**
Schmitendorf, W. E. Design of observer-based robust stabilizing controllers. (Not in MR)
— Designing stabilizing controllers for uncertain systems using the Riccati equation approach. **89b:93090**
— Stabilizing controllers for uncertain linear systems with additive disturbances. **89d:93085**
Schumacher, J. M. *see* **Bontsema, J.; et al., 89k:93161**
Seborg, Dale E. *see* **Benallou, A.; et al.,** (Not in MR)
Seidman, Thomas I. *see* **Nambu, T.; et al., 89c:93058**
Selbuz, Hasan (*with* Eldem, Vasfi) Kleinman's controller: a further stabilizing property. **89i:93094**
Shi, Zhi Cheng (*with* Gao, Wei Bing) On decentralized stabilization of large-scale interconnected systems. (Not in MR)
Shih, Chên Fêng *see* **Hsieh, Chê Kuang, 89d:93081**
Shirao, Yoshiaki *see* **Kawabata, Hiroaki; et al., 89k:93167**
Šiljak, Dragoslav D. *see* **Hayakawa, Yoshikazu, 89k:93166**
Skaar, Steven B. (*with* Michel, A. N.; Miller, Richard K.) Stability of viscoelastic control systems. **89a:93043**
Soh, Y. C. (*with* Evans, Robin J.) Characterization of robust controllers. **89k:93174**
Spong, Mark W. Robust stabilization for a class of nonlinear systems. **89h:93046**
— A semistate approach to feedback stabilization of neutral delay systems. **89d:93086**
Stefani, Gianna *see* **Andreini, Alessandra; et al., 89h:93044** *and* **(89c:00031)**
Steinberg, A. M. A sufficient condition for output feedback stabilization of uncertain dynamical systems. **89e:93168**
Tadmor, Gilead Trajectory stabilizing controls in hereditary linear systems. **89j:93093**
Tarn, Tzyh Jong (*with* Zavgren, John R., Jr.; Zeng, Xiaoming) Stabilization of infinite-dimensional systems with periodic feedback gains and sampled output. **89d:93087**
Triggiani, R. Finite rank, relatively bounded perturbations of semigroup generators. III. A sharp result on the lack of uniform stabilization. **89j:93094**
Tsinias, J. Stabilization of affine-in-control nonlinear systems. **89k:93175**
Tzafestas, Spyros G. *see* **Botsaris, C. A., 89k:93162**
Vereneĭ, E. I. (*with* Korchanov, V. M.) Multi-objective stabilization of dynamical systems of a certain class. **89m:93070**
Vidyasagar, M. A state-space interpretation of simultaneous stabilization. **89b:93091**
Wang, Shan Shan *see* **Zheng, Da Zhong, 89b:93092**
Wang, Sin Syung *see* **Ch′ên, Po Hsien, 89b:93087**
Wang, Xiao Jun A new geometric criterion for stability of linear control systems. (Chinese. English summary) **89e:93169**
van der Wegen, L. L. M. (*with* Nijmeijer, Henk) A note on disturbance decoupling with stability for nonlinear systems. (*see* **89c:00031**)
Wheeler, Robert L. *see* **Hannsgen, Kenneth B.; et al., 89k:93165**
van der Woude, J. W. Disturbance decoupling and output stabilization by measurement feedback: a combined approach. **89c:93060**
Wu, Nai Qi (*with* Li, Ren Hou; Hu, Bao Sheng) Decentralized stabilization using local state feedback. (Chinese. English summary) **89j:93095**
Yakovlev, O. S. Investigation of feedback laws in multicomponent control systems. (Russian) **89d:93088**
Yong, Jiong Min (*with* Arapostathis, Aristotle) Stabilization of discrete-time linear systems with a time delay in the feedback loop. **89g:93076**
Zabczyk, J. Some comments on stabilizability. **89f:93035**
Żak, S. H. *see* **Magaña, Mario E., 89e:93167** *and* (Not in MR)
Zavgren, John R., Jr. *see* **Tarn, Tzyh Jong; et al., 89d:93087**
Zelentsovskiĭ, A. L. (*with* Rapoport, L. B.) Sufficient conditions for the existence of Lyapunov functions in a class of forms of higher powers in a problem on absolute stability. (Russian. English summary) **89e:93170**
Zeng, Xiaoming *see* **Tarn, Tzyh Jong; et al., 89d:93087**
Zhang, Zhong Jun *see* **Niu, Xiao Ming; et al., 89k:93173**
Zheng, Da Zhong (*with* Wang, Shan Shan) The parameter stability regions for linear quadratic optimal regulators. (Chinese. English summary) **89b:93092**
Zhou, Kemin (*with* Khargonekar, Pramod P.) Robust stabilization of linear systems with norm-bounded time-varying uncertainty. **89c:93061**
Zuazua, Enrike Robustesse du feedback de stabilisation par contrôle frontière. (English summary) [Robustness of stabilization feedback via boundary control] **89i:93095**
Zuber, I. E. Design of stabilizing control for nonlinear discrete objects. (Russian) (*see* **89j:34002**)

Items with secondary classifications in 93D15

Ahmed, N. U. Abstract stochastic evolution equations and related control and stability problems. **89g:93106**
Aĭsagaliev, S. A. Controllability and absolute stability of controllable systems. (Russian) **89e:93153**
Araki, Mituhiko *see* **Hagiwara, Tomomichi, 89i:93079**
Atanasov, V. A. (*with* Lilov, L. K.) Stabilizability of steady motions of systems with pseudocyclic coordinates. (Russian) **89k:70052**
Badr, R. I. (*with* Hassan, M. F.; Bernussou, J.; Bilal, A. Y.) Time-domain robustness and performance optimisation of linear quadratic control problems. **89j:93043**
Barmish, B. Ross *see* **Petersen, Ian R., 89k:93190**
Bernussou, J. *see* **Badr, R. I.; et al., 89j:93043**
Bessonov, G. A. (*with* Korobov, V. I.; Sklyar, G. M.) The problem of the stable synthesis of bounded controls for a class of nonstationary systems. **89k:93085**
Bhattcharyya, Shankar Prashad *see* **Keel, L. H., 89m:93064**
Bilal, A. Y. *see* **Badr, R. I.; et al., 89j:93043**
Chen, Fang Yue The reduction principle of global stability of nonlinear system and its application to direct control system. **89h:58092**
Ch′ên, Po Hsien (*with* Lu, Hung Ching) State estimation of large-scale systems. **89f:93004**
— *see also* **Hwang, C. L., 89e:93139** *and* **Hsiao, Fêng Hsiang, 89h:49031**
Chen, Ye-Hwa Decentralized robust output and estimated state feedback controls for large-scale uncertain systems. **89b:93015**
Cheruy, A. *see* **Lakrori, M., (89c:00031)**
Colgate, J. E. (*with* Hogan, N.) Robust control of dynamically interacting systems. **89k:93086**
Commault, C. *see* **Dion, J. M., 89a:49034**
Deĭch, V. G. Controllers with optimal structure in systems with lumped and distributed parameters. **89j:93045**
Desch, W. (*with* Miller, Richard K.) Exponential stabilization of Volterra integro-differential equations in Hilbert space. **89a:45025**
Dion, J. M. (*with* Commault, C.) The minimal delay decoupling problem: feedback implementation with stability. **89a:49034**
— *see also* **Giri, F.; et al., 89e:93110**

Dugard, L. *see* **Giri, F.; et al., 89e:93110**
Emre, E. (*with* Seo, Jin H.) Realization theoretic solution of two analytic matrix equations with application to stabilization of infinite-dimensional systems. **89k:93034**
Engwerda, Jacob Christiaan ★ Regulation of linear discrete time-varying systems. **89g:93061**
Evans, Robin J. *see* **Zhang, Cishen, 89k:93137**
Ferreira, Pedro M. G. Comments on: "Internal stabilization and decoupling in linear multivariable systems by unity output feedback compensation" [IEEE Trans. Automat. Control **32** (1987), no. 8, 735–739] by A. I. G. Vardulakis. (Not in MR)
— DDP and model following problem revisited. **89k:93088**
Gabrielyan, M. S. *see* **Sarkisyan, V. S.; et al., 89d:73033**
Ghosh, Bijoy Kumar An approach to simultaneous system design. II. Nonswitching gain and dynamic feedback compensation by algebraic geometric methods. **89e:93058**
Giri, F. (*with* Dugard, L.; Dion, J. M.; M'Saad, M.) Stable pole placement direct adaptive control for systems with arbitrary zeros. **89e:93110**
Goodwin, Graham C. *see* **Hill, David J.; et al., 89m:93048**
Hagiwara, Tomomichi (*with* Araki, Mituhiko) On preservation of strong stabilizability under sampling. **89i:93079**
Hale, Jack K. (*with* Stavrakakis, N.) Compact attractors for weak dynamical systems. **89e:34088**
Hamill, David C. (*with* Jeffries, David J.) Subharmonics and chaos in a controlled switched-mode power converter. (Not in MR)
Hammer, Jacob Assignment of dynamics for nonlinear recursive feedback systems. **89m:93028**
Hara, Shinji (*with* Yamamoto, Yutaka; Omata, Tohru; Nakano, Michio) Repetitive control system: a new type servo system for periodic exogenous signals. **89d:93056**
— (*with* Kondō, R.; Katori, H.) Properties of zeros in digital control systems with computational time delay. **89k:93105**
— *see also* **Yamamoto, Yutaka, 89m:93043**
Hassan, M. F. *see* **Badr, R. I.; et al., 89j:93043**
Helmke, Uwe (*with* Prätzel-Wolters, D.) Stability and robustness properties of universal adaptive controllers for first-order linear systems. **89h:93034**
Hermes, Henry (*with* Kawski, Matthias) Local controllability of a single input, affine system. **89h:93009**
Hill, David J. (*with* Wen, Changyun; Goodwin, Graham C.) Stability analysis of decentralised robust adaptive control. **89m:93048**
Hogan, N. *see* **Colgate, J. E., 89k:93086**
Hsiao, Fêng Hsiang (*with* Ch'ên, Po Hsien) Robustness optimization in LQG multivariate systems with time-varying nonlinear perturbations. **89h:49031**
Hu, Xi Heng *see* **Xu, Hong Yue, 89b:93072**
Hwang, C. L. (*with* Ch'ên, Po Hsien) Adaptive control of optimal model matching in H^∞-norm space. **89e:93139**
Jacobson, Clas A. (*with* Nett, Carl N.) Linear state-space systems in infinite-dimensional space: the role and characterization of joint stabilizability/detectability. **89e:93127**
Jeffries, David J. *see* **Hamill, David C.**, (Not in MR)
Kaizu, Hiroyuki *see* **Taniguchi, Tsuneo, 89k:93151**
Katori, H. *see* **Hara, Shinji; et al., 89k:93105**
Kawski, Matthias An angular open mapping theorem. **89m:49068**
— *see also* **Hermes, Henry, 89h:93009**
Keel, L. H. (*with* Bhattcharyya, Shankar Prashad) Robust stability and stabilization in parameter space. **89m:93064**
Kenney, Charles (*with* Laub, Alan J.) Controllability and stability radii for companion form systems. **89j:93006**
Khargonekar, Pramod P. (*with* Poolla, K. R.; Tannenbaum, Allen) Periodic controllers for robust control of linear time-invariant plants. **89i:93048**
— *see also* **Zhou, Kemin, 89e:93056**
Khoroshilov, V. S. *see* **Zakrzhevskiĭ, A. E., 89k:49027**
Kondō, R. *see* **Hara, Shinji; et al., 89k:93105**
Korobov, V. I. *see* **Bessonov, G. A.; et al., 89k:93085**
Krasinskiĭ, A. Ya. (*with* Ronzhin, V. V.) On stabilization of steady motions of mechanical systems with cyclic coordinates. (Russian) **89k:70025**
Lakrori, M. (*with* Cheruy, A.) Une commande nonlinéaire de bioprocédés fedbatch. (English summary) [A nonlinear control for fedbatch bioprocesses] (*see* **89c:00031**)
Lasiecka, Irena Exponential stabilization of the wave equations with Dirichlet boundary conditions. **89a:93044**
Laub, Alan J. *see* **Kenney, Charles, 89j:93006**
Lilov, L. K. *see* **Atanasov, V. A., 89k:70052**
Lin, Zhi Ping Feedback stabilization of multivariable two-dimensional linear systems. **89k:93123**
Lions, J.-L. Exact controllability, stabilization and perturbations for distributed systems. **89e:93019**
Logemann, Hartmut (*with* Owens, D. H.) Robust high-gain feedback control of infinite-dimensional minimum-phase systems. **89e:93180**
Lu, Hung Ching *see* **Ch'ên, Po Hsien, 89f:93004**
Mårtensson, Bengt Adaptive stabilization of multivariable linear systems. **89d:93061**
McClamroch, N. Harris (*with* Wang, Danwei) Feedback stabilization and tracking of constrained robots. (Not in MR)
Miller, Richard K. *see* **Desch, W., 89a:45025**
M'Saad, M. *see* **Giri, F.; et al., 89e:93110**
Nakagawa, Toichiro General structure of hierarchy control and management with both objective and subjective approach. (*see* **89c:93002**)
Nakano, Michio *see* **Hara, Shinji; et al., 89d:93056**
Neshcheret, V. I. (*with* Ruzhnikov, G. M.; Zabolonova, N. A.) Control problems with local functionals. (Russian) **89d:49019**
Nett, Carl N. (*with* Uthgenannt, James A.) An explicit formula and an optimal weight for the 2-block structured singular value interaction measure. **89i:93024**
— *see also* **Jacobson, Clas A., 89e:93127**
Nordström, Niklas Parameter convergence and stability in continuous-time indirect adaptive control. (Not in MR)
Omata, Tohru *see* **Hara, Shinji; et al., 89d:93056**
Owens, D. H. *see* **Logemann, Hartmut, 89e:93180**
Pachpatte, B. G. Existence and uniqueness of solutions of some nonlinear controlled dynamic systems. **89g:34003**
Petersen, Ian R. (*with* Barmish, B. Ross) Control effort considerations in the stabilization of uncertain dynamical systems. **89k:93190**
— Some new results on algebraic Riccati equations arising in linear quadratic differential games and the stabilization of uncertain linear systems. **89h:90274**
Poolla, K. R. *see* **Khargonekar, Pramod P.; et al., 89i:93048**
Praagman, C. On the factorization of rational matrices depending on a parameter. **89b:47033**
Prätzel-Wolters, D. *see* **Helmke, Uwe, 89h:93034**
Przyłuski, K. M. Controllability does not imply stabilizability. **89b:93022**
Ronzhin, V. V. *see* **Krasinskiĭ, A. Ya., 89k:70025**
Ruzhnikov, G. M. *see* **Neshcheret, V. I.; et al., 89d:49019**
Ryan, E. P. Adaptive stabilization of a class of uncertain nonlinear systems: a differential inclusion approach. **89b:93070**
Sarkisyan, V. S. (*with* Gabrielyan, M. S.; Yusif, Yu. Dzh.) Optimal stabilization of an orthotropic rectangular plate. (Russian. English and Armenian summaries) **89d:73033**
van der Schaft, A. J. On feedback control of Hamiltonian systems. **89h:93003**
Seo, Jin H. *see* **Emre, E., 89k:93034**
Sklyar, G. M. *see* **Bessonov, G. A.; et al., 89k:93085**
Söderström, Torsten *see* **Sternad, Mikael**, (Not in MR)
Stavrakakis, N. *see* **Hale, Jack K., 89e:34088**
Sternad, Mikael (*with* Söderström, Torsten) LQG-optimal feedforward regulators. (Not in MR)
Taniguchi, Tsuneo (*with* Kaizu, Hiroyuki) New approach to the synthesis of a stabilizing control method for a power system. **89k:93151**
Tannenbaum, Allen *see* **Khargonekar, Pramod P.; et al., 89i:93048**
Tarn, Tzyh Jong (*with* Zeng, Xiaoming; Zavgren, John R., Jr.) Feedback stabilization of linear dynamic systems with multirate sampled output. **89h:93039**
Uthgenannt, James A. *see* **Nett, Carl N., 89i:93024**
(Vardulakis, A. I. G.) *see* **Ferreira, Pedro M. G.**, (Not in MR)
Verma, Madanpal S. Coprime fractional representations and stability of nonlinear feedback systems. **89j:93061**
Wang, Danwei *see* **McClamroch, N. Harris**, (Not in MR)
Wen, Changyun *see* **Hill, David J.; et al., 89m:93048**
Xu, Hong Yue (*with* Hu, Xi Heng) Robustness protection-time delay tracing adaptive control for varying time delay systems. (Chinese. English summary) **89b:93072**
Yamamoto, Yutaka (*with* Hara, Shinji) Relationships between internal and external stability for infinite-dimensional systems with applications to a servo problem. **89m:93043**
— *see also* **Hara, Shinji; et al., 89d:93056**
Yaz, Engin Feedback controllers for stochastic-parameter systems: relations among various stabilizability conditions. **89j:93136**
Yong, Jiong Min Stabilization of nonlinear large-scale uncertain dynamical systems. **89m:93079**
You, Yun Cheng Dynamical boundary control of two-dimensional Petrovsky system: vibrating rectangular plate. **89e:93152**
Yusif, Yu. Dzh. *see* **Sarkisyan, V. S.; et al., 89d:73033**
Zabolonova, N. A. *see* **Neshcheret, V. I.; et al., 89d:49019**
Zakrzhevskiĭ, A. E. (*with* Khoroshilov, V. S.) An approach to truncation of the dimension in a mathematical model of a solid body with internal degrees of freedom. **89k:49027**
Zavgren, John R., Jr. *see* **Tarn, Tzyh Jong; et al., 89h:93039**
Zeng, Xiaoming *see* **Tarn, Tzyh Jong; et al., 89h:93039**
Zhang, Cishen (*with* Evans, Robin J.) Rate constrained adaptive control. **89k:93137**
Zhang, Meng Qiu Absolute stability of some classes of direct control systems. (Chinese. English summary) **89k:93159**
Zhou, Hong Xing Analysis of pulsewidth modulated sampled-data control systems. (Chinese. English summary) **89j:93076**
Zhou, Kemin (*with* Khargonekar, Pramod P.) An algebraic Riccati equation approach to H^∞ optimization. **89e:93056**

93D20 Asymptotic stability

Abed, Eyad H. (*with* Tits, André L.) Comment on: "Sufficient condition for the asymptotic stability of interval matrices" [Internat. J. Control **47** (1988), no. 6, 1973–1974; MR 89g:93079] by M. Mansour. **89g:93080**
Aĭsin, K. G. Stability of a dynamic automatic control system. (Russian) (*see* **89g:00008**)
Bahnasawi, Ahmed A. *see* **Mahmoud, Magdi S., 89e:93175** *and* (Not in MR)
Balas, Mark J. Finite-dimensional controllers for linear distributed parameter systems: exponential stability using residual mode filters. **89e:93171**
Balinskiĭ, A. I. The Bezout mapping and the connection between the methods of Hermite and Schur in the theory of stability of polynomials. (Russian) **89b:93093**
Barabanov, N. E. On a problem of Kalman. **89g:93077**
Barnett, Stephen *see* **Mori, Takehiro, 89e:93176**
Bartlett, A. C. (*with* Hollot, C. V.) A necessary and sufficient condition for Schur invariance and generalized stability of polytopes of polynomials. **89g:93078**
Bogatyrev, A. V. (*with* Pyatnitskiĭ, E. S.) Construction of piecewise-quadratic Lyapunov functions for nonlinear control systems. (Russian. English summary) **89e:93172**
Bose, N. K. *see* **Delansky, J. F.**, (Not in MR)
Delansky, J. F. (*with* Bose, N. K.) Real and complex polynomial stability and stability domain construction via network realizability theory. (Not in MR)
Farison, J. B. *see* **Kolla, S. R.**, (Not in MR)
Feng, Weining Characterization and computation for the bound ε^* in linear time-invariant singularly perturbed systems. **89i:93096**
Fuller, A. T. Redundant inequalities in stability criteria. I. **89e:93173**
— Redundant inequalities in stability criteria. II. **89e:93174**
Hollot, C. V. *see* **Bartlett, A. C., 89g:93078**
Jiang, Chung Li Sufficient condition for the asymptotic stability of interval matrices. **89b:93094**

— Sufficient and necessary condition for the asymptotic stability of discrete linear interval systems. (Not in MR)
— *see also* **Kolla, S. R.**, (Not in MR) *and* **Karl, W. Clem**, (Not in MR)
Karl, W. Clem (*with* Verghese, George C.) Comments on: "Sufficient and necessary condition for the asymptotic stability of discrete linear interval systems" [Internat. J. Control **47** (1988), no. 5, 1563–1565] by C. L. Jiang. (Not in MR)
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Pyatnitskiĭ, E. S. *see* **Bogatyrev, A. V., 89e:93172**
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Tsoneva, Rainitchka G. *see* **Popchev, Ivan P., 89m:93071**
Verghese, George C. *see* **Karl, W. Clem**, (Not in MR)
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Windrich, H. *see* **Popp, K.; et al., 89b:93095**
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Davison, E. J. *see* **Vaz, A. F., 89i:93006**
Desai, U. B. *see* **King, A. M.; et al., 89e:93181**
Drăgan, Vasile Model reduction for exponential stability of systems of nonlinear differential equations coupled with nonlinear difference equations with small step-size. **89d:93022**
Eldem, Vasfi *see* **Selbuz, Hasan, 89i:93094**
Fridman, L. M. *see* **Sobolev, V. A., 89c:49022**
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Hara, Shinji *see* **Yamamoto, Yutaka, 89m:93043**
Hashizume, Hidekuni *see* **Kawabata, Hiroaki; et al., 89k:93167**
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Kalouptsidis, N. *see* **Tsinias, J., 89g:93053**
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Nagahara, Toshikuni *see* **Kawabata, Hiroaki; et al., 89k:93167**
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93D25 Input-output approaches

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Barmish, B. Ross (*with* Wei, K. H.) Simultaneous stabilizability of single input–single output systems. **89c:93063**
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Cluett, W. R. (*with* Shah, S. L.; Fisher, D. Grant) Robustness analysis of discrete-time adaptive control systems using input-output stability theory: a tutorial. **89b:93097**
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Dion, J. M. *see* **Giri, F.; et al., 89k:93179**
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Gallo, Antonio *see* **Fortuna, L.; et al., 89e:93177**
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Gevers, M. *see* **Mareels, I. M. Y., 89j:93098**
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Hautus, M. L. J. *see* **Zhu, Si Quan; et al., 89k:93181**
Lapsa, P. M. Proof of stability condition. (French and German summaries) **89g:93082**
Linnemann, Arno A class of single-input single-output systems stabilizable by reduced-order controllers. **89e:93179**
Logemann, Hartmut (*with* Owens, D. H.) Robust high-gain feedback control of infinite-dimensional minimum-phase systems. **89e:93180**
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Nunnari, G. *see* **Fortuna, L.; et al., 89e:93177**

Ohta, Yoshito *see* **Dahleh, Munther A., 89k:93178**

Owens, D. H. *see* **Valsamis, D.; et al., 89d:93089** *and* **Logemann, Hartmut, 89e:93180**

Praagman, C. *see* **Zhu, Si Quan; et al., 89k:93181**

Shah, S. L. *see* **Cluett, W. R.; et al., 89b:93097**

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Bodson, M. *see* **Mason, J. E.; et al., 89i:93032**

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Shih, Chên Fêng *see* **Hsieh, Chê Kuang, 89d:93081**

Suzuki, Masayuki *see* **Hamada, Kazuyasu, 89h:93033**

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93D99 None of the above, but in this section

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Horng, Ing Rong *see* **Chou, Jyh Horng, 89k:93184**

Jury, E. I. *see* **Kraus, F.; et al., 89g:93085**

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uang, Garng *see* **Zaborszky, John; et al., 89a:93037**

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osolapov, V. I. *see* **Borisenko, S. D.; et al., 89h:34042**

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i, Tsu T'ien *see* **Wang, Wen June, 89f:34076**

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— *see also* **Abed, Eyad H., 89g:93080** *and* **Luo, Zheng Hua, 89g:93081**

Martynyuk, A. A.) *see* **Borisenko, S. D.; et al., 89h:34042**

atviĭchuk, K. S. Technical stability of parametrically excitable distributed processes. (Russian) **89d:35099**

bolenskiĭ, A. Yu. *see* **Borisenko, S. D.; et al., 89h:34042**

oolla, K. R. *see* **Ting, T. C. T., 89h:90232**

raagman, C. *see* **Zhu, Si Quan; et al., 89k:93181**

ezer, M. E. (*with* Šiljak, Dragoslav D.) Robust stability of discrete systems. **89j:39006**

hokin, Yu. I. (*with* Zakharov, Aleksandr Vasil′evich) Design of control systems under interval determinacy of the parameters of their mathematical models. **89g:93046**

iljak, Dragoslav D. *see* **Sezer, M. E., 89j:39006**

oh, Y. C. (*with* Evans, Robin J.) Stability analysis of interval matrices—continuous and discrete systems. **89e:93076**

pong, Mark W. Robust stabilization for a class of nonlinear systems. **89h:93046**

Sun, You Xian) *see* **Tarokh, M.**, (Not in MR)

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ing, T. C. T. (*with* Poolla, K. R.) Upper bounds and approximate solutions for multidisk problems. **89h:90232**

its, André L. *see* **Abed, Eyad H., 89g:93080**

orelli, Francesco *see* **Brucoli, Michele; et al.**, (Not in MR)

rovato, Michele *see* **Brucoli, Michele; et al.**, (Not in MR)

ang, Hong^4 An adaptive robust control system—stability and robustness. (Chinese. English summary) **89g:93060**

Wang, Qing Guo) *see* **Tarokh, M.**, (Not in MR)

ang, Wen June (*with* Li, Tsu T'ien) Robust stability criteria for single- and large-scale perturbed systems. **89f:34076**

e, Da Wei Partial stability of large-scale systems. **89b:34119**

aborszky, John (*with* Huang, Garng; Zheng, Baohua; Leung, Tin-Chi) On the phase portrait of a class of large nonlinear dynamic systems such as the power system. **89a:93037**

akharov, Aleksandr Vasil′evich *see* **Shokin, Yu. I., 89g:93046**

heng, Baohua *see* **Zaborszky, John; et al., 89a:93037**

Zhou, Chun Hui) *see* **Tarokh, M.**, (Not in MR)

hu, Si Quan (*with* Hautus, M. L. J.; Praagman, C.) Sufficient conditions for robust BIBO stabilization: given by the gap metric. **89k:93181**

3Exx Stochastic systems and control

aines, Peter E. ★ Linear stochastic systems. **89f:93037**

ladkov, D. I. *see* **Kazakov, I. E., 89g:93088**

azakov, I. E. (*with* Gladkov, D. I.) ★ Методы оптимизации стохастических систем. (Russian) [Methods for optimization of stochastic systems] **89g:93088**

tems with secondary classifications in 93Exx

saubaev, K. Sh. *see* **Popkov, Yu. S.; et al., 89e:93226**

shimov, A. A. *see* **Popkov, Yu. S.; et al., 89e:93226**

hen, Guan Rong *see* **Chui, C. K., 89d:93093**

hui, C. K. (*with* Chen, Guan Rong) ★ Kalman filtering with real-time applications. **89d:93093**

Fleming, W. H.) *see* **Stochastic differential systems, stochastic control theory and applications, 89b:93009**

opeikin, S. V. *see* **Kurochkin, E. P.; et al., 89c:94018**

urochkin, E. P. (*with* Muminov, N. A.; Kopeikin, S. V.) ★ Адаптивные методы обработки измерительной информации. (Russian) [Adaptive methods for processing of measuring information] **89c:94018**

ions, Pierre-Louis) *see* **Stochastic differential systems, stochastic control theory and applications, 89b:93009**

Marple, S. Lawrence, Jr. ★ Digital spectral analysis with applications. **89c:93001**

Muminov, N. A. *see* **Kurochkin, E. P.; et al., 89c:94018**

Popkov, Yu. S. (*with* Ashimov, A. A.; Asaubaev, K. Sh.) ★ Статистическая теория автоматических систем с динамической частотно-импульсной модуляцией. (Russian) [Statistical theory of automatic systems with dynamic frequency-impulse modulation] **89e:93226**

Items listed otherwise than by author

Minneapolis, Minn. ★ Stochastic differential systems, stochastic control theory and applications. **89b:93009**

Stochastic differential systems, stochastic control theory and applications ★ Stochastic differential systems, stochastic control theory and applications. **89b:93009**

Workshop:

Stochastic differential systems, stochastic control theory and applications ★ Stochastic differential systems, stochastic control theory and applications. **89b:93009**

93E03 Stochastic systems, general

Bittanti, Sergio (*with* Colaneri, Patrizio; De Nicolao, Giuseppe) The difference periodic Riccati equation for the periodic prediction problem. **89h:93049**

Brusin, V. A. Estimates for the output processes of stochastic discrete relay systems of a certain class. **89a:93045**

Carotenuto, L. (*with* Muraca, P.; Raiconi, G.) Observation strategy for a parallel connection of discrete-time linear systems. **89m:93080**

Colaneri, Patrizio *see* **Bittanti, Sergio; et al., 89h:93049**

De Nicolao, Giuseppe *see* **Bittanti, Sergio; et al., 89h:93049**

Desai, U. B. *see* **King, A. M.; et al., 89e:93181**

Dzieliński, Andrzej Real-time simulation of nonlinear quadratic Gaussian adaptive control system. (*see* **89g:00018**)

Gerencsér, László Parameter tracking of time-varying continuous-time linear stochastic systems. (*see* **89b:93008**)

Gill, Jelena B. (*with* Petrović, Ljiljana) Causality and stochastic dynamic systems. **89d:93090**

King, A. M. (*with* Desai, U. B.; Skelton, Robert E.) A generalized approach to *q*-Markov covariance equivalent realizations for discrete systems. **89e:93181**

Krener, Arthur J. Reciprocal processes and the stochastic realization problem for acausal systems. **89c:93065**

Lo, James Ting Ho Bilinearization of stochastic systems. **89d:93091**

Mark, W. D. Effects of intensity modulations on the power spectra of random processes. **89a:93046**

Marmarelis, Vasilis Z. Linearized models of a class of nonlinear dynamic systems. (Not in MR)

Moses, Randolph L. Optimal approximate stochastic partial realization. (*see* **89b:93008**)

Muraca, P. *see* **Carotenuto, L.; et al., 89m:93080**

Nakayama, J. (*with* Omori, E.) Wiener analysis of a binary hysteresis system. **89i:93102**

Omori, E. *see* **Nakayama, J., 89i:93102**

Perlovsky, L. I. Frequency estimates for simple oscillating systems under random forcing. (*see* **89f:00025**)

Petrović, Ljiljana *see* **Gill, Jelena B., 89d:93090**

Picci, Giorgio Application of stochastic realization theory to a fundamental problem of statistical physics. **89c:93066**

Raiconi, G. *see* **Carotenuto, L.; et al., 89m:93080**

Riganti, Riccardo Evolution of the *n*th probability density and entropy function in stochastic systems. **89e:93182**

van Schuppen, J. H. Stochastic realization problems motivated by econometric modeling. **89c:93067**

Skelton, Robert E. *see* **King, A. M.; et al., 89e:93181**

Solodov, A. A. *see* **Solodov, A. V., 89f:93038**

Solodov, A. V. (*with* Solodov, A. A.) ★ Статистическая динамика систем с точечными процессами. (Russian) [Statistical dynamics of systems with point processes] **89f:93038**

Usachev, E. S. Mathematical theory of adaptation and the uniform ergodic theorem for operators in a Banach lattice. (Russian) **89b:93098**

Yatsenko, V. A. Partial decomposition of stochastic systems. (Russian) (Not in MR)

Zhu, Wei Zhang A universal algorithm of parameter conversion from a sampling ARMA model to the corresponding linear stochastic differential equation and vice versa. (Chinese. English summary) **89e:93183**

Items with secondary classifications in 93E03

Abramov, V. M. Some new applications of an asymptotic theorem on the time of first approach of a rare event in a regenerative process. (Russian. Tajiki summary) **89e:60174**

Adomian, George A. ★ Стохастические системы. (Russian) [Stochastic systems] **89h:93002**

Badawi, Faris A. (*with* Lindquist, Anders) A stochastic realization approach to the discrete-time Mayne-Fraser smoothing formula. **89d:93110**

— Stochastic realizations of a discrete-time nonstationary process. **89j:93016**

Balabushkin, A. N. (*with* Gul′ko, F. B.) Prediction of the extreme values of the phase coordinates of stochastic systems. **89e:93216**

Bansal, Rajesh (*with* Başar, Tamer) Simultaneous design of communication and control strategies for stochastic systems with feedback. **89e:90209**

Baram, Yoram (*with* Shaked, U.) On the internal structure of minimal stochastic realizations. **89j:93015**

Başar, Tamer *see* **Bansal, Rajesh, 89e:90209**

(Bellman, Richard) *see* **Adomian, George A., 89h:93002**

Brannan, James R. *see* **Reneke, James A., 89e:93199**

Cassandras, Christos G. (*with* Strickland, Stephen G.) Perturbation analysis and augmented Markov chains for discrete event systems. (*see* **89c:00031**)

Ch'ên, Po Hsien (*with* Kuo, Chih Tsung) Multivariable control design for stochastic systems with saturated driving: LQG optimal approach. **89a:93026**

Damen, A. A. H. *see* **Janssen, Peter H. M., 89e:93066**

Da Prato, G. (*with* Zabczyk, J.) A note on semilinear stochastic equations. **89b:60149**

Desai, U. B. (*with* Hsu, Chieh Su) Minimum phase model reduction of deterministic systems via stochastic balancing. **89g:93012**

Doran, Andrei L. Coordinate selection issues in the order reduction of linear systems. **89h:93016**

Elishakoff, I. Correlation and spectral analysis—a brief outline. **89i:60079**

— Random vibration of multi-degree-of-freedom systems with associated effect of cross-correlations. **89j:60059**

Germani, A. (*with* Piccioni, M.) Semidiscretization of stochastic partial differential equations on $\mathbf{R}^d$ by a finite-element technique. **89f:60063**

Glover, Keith (*with* Jonckheere, Edmond) A comparison of two Hankel-norm methods for approximating spectra. **89c:93031**

Golubev, G. A. Design of minimax linear filters on the basis of a local and an integral criterion. **89j:93118**

Green, Michael All-pass matrices, the positive real lemma, and unit canonical correlations between future and past. **89c:62153**

— Balanced stochastic realizations. **89g:93019**

Green, Michael B. A relative error bound for balanced stochastic truncation. (Not in MR)

Gul′ko, F. B. *see* **Balabushkin, A. N., 89e:93216**

Gyöngy, I. Mimicking complicated stochastic differential equations by simpler ones. **89g:60185**

Gzyl, H. Hamiltonian systems and semigroups. (Spanish) **89j:70024**

Halanay, Aristide Periodic and almost periodic solutions to affine stochastic systems. **89f:34085**

Haykin, Simon Modern signal processing. (*see* **89a:94002**)

Hsu, Chieh Su *see* **Desai, U. B., 89g:93012**

Janković, Svetlana Iterative procedure for solving stochastic differential equations. **89b:60139**

Janssen, Peter H. M. (*with* Damen, A. A. H.) Comments on: "MFD models and time delays; some consequences for identification" [Internat. J. Control **45** (1987), no. 4, 1179–1196; MR 88f:93107] by Janssen. **89e:93066**

Jonckheere, Edmond *see* **Opdenacker, Philippe C., 89c:93016** *and* **Glover, Keith, 89c:93031**

Kolodziej, Wojciech J. (*with* Mohler, Ronald R.) On structurally decomposing processes. **89m:93091**

Koski, T. An asymptotic localization by perturbing operators for partial observation of a stochastic evolution equation. **89i:60126**

Krener, Arthur J. Realizations of reciprocal processes. **89i:60081**

Kuo, Chih Tsung *see* **Ch'ên, Po Hsien, 89a:93026**

Kvetnyĭ, R. N. (*with* Malikov, V. T.) ★ Информационная теория измерений: от модели к изделию. (Russian) [Informational theory of measurements: from the model to the product] **89k:94028**

Lenhart, Suzanne M. (*with* Liao, Yu Chung) Integro-differential equations associated with piecewise deterministic processes. **89a:45022**

Liao, Yu Chung *see* **Lenhart, Suzanne M., 89a:45022**

Lindquist, Anders *see* **Badawi, Faris A., 89d:93110**

Litvin, I. N. Controllability of systems with random parameters. (Russian) **89d:93010**

Malikov, V. T. *see* **Kvetnyĭ, R. N., 89k:94028**

Mariton, M. On systems with non-Markovian regime changes. **89k:93145**

Michaletzky, György (*with* Tusnády, Gábor) On the state space representation of multidimensional time series. (Hungarian. English summary) **89m:93012**

Mikhaĭlov, F. A. ★ Теория и методы исследования нестационарных линейных систем. (Russian) [Theory and methods for investigating nonstationary linear systems] **89g:93001**

Mohler, Ronald R. *see* **Kolodziej, Wojciech J., 89m:93091**

Morozan, T. Periodic solutions of stochastic discrete-time systems. **89a:60156**

Nordström, Niklas Order reducing approximation of two-time-scale stochastic discrete linear time-varying systems. (*see* **89b:93008**)

Ocone, Daniel A guide to the stochastic calculus of variations. **89h:60093**

Opdenacker, Philippe C. (*with* Jonckheere, Edmond) A state space approach to approximation by phase matching. **89c:93016**

Pavon, Michele *see* **Taylor, Thomas J.**, (Not in MR)

Perel′man, I. I. Design of an experiment in problems of the construction of models for control objects. (Russian. English summary) **89f:62063**

Piccioni, M. *see* **Germani, A., 89f:60063**

Pickett, E. E. *see* **Whiting, R. G.**, (Not in MR)

Popp, K. (*with* Socha, L.; Windrich, H.) Moment stability of linear stochastic nontriangular large-scale systems. **89b:93095**

Reneke, James A. (*with* Brannan, James R.) Application of RKH space methods to the filtering problem for linear hereditary systems. **89e:93199**

Sarafyan, V. V. (*with* Skorokhod, A. V.) Dynamical systems with fast switchings. (Russian) **89f:60064**

Shaked, U. *see* **Baram, Yoram, 89j:93015**

Shalamov, A. S. Statistical analysis of differential-difference systems. **89c:34063**

Situ, Rong On strong solution, uniqueness, stability and comparison theorems for a stochastic system with Poisson jumps. **89g:60159**

Skelton, Robert E. Covariance approximation and control. **89c:93019**

Skorokhod, A. V. *see* **Sarafyan, V. V., 89f:60064**

Socha, L. *see* **Popp, K.; et al., 89b:93095**

Strickland, Stephen G. *see* **Cassandras, Christos G.**, (**89c:00031**)

Taylor, Thomas J. (*with* Pavon, Michele) A solution of the nonlinear stochastic realization problem. (Not in MR)

Tsaklidis, G. (*with* Vassiliou, P.-C. G.) Asymptotic periodicity of the variances and covariances of the state sizes in nonhomogeneous Markov systems. **89c:60082**

Tusnády, Gábor *see* **Michaletzky, György, 89m:93012**

Vassiliou, P.-C. G. *see* **Tsaklidis, G., 89c:60082**

Verriest, Erik Projection techniques for model reduction. **89c:93021**

Volgin, L. N. Application of polynomial calculus to problems of the theory of automatic control. **89k:93055**

(Volkov, N. G.) *see* **Adomian, George A., 89h:93002**

Whiting, R. G. (*with* Pickett, E. E.) On model order estimation for partially observed Markov chains. (Not in MR)

Windrich, H. *see* **Popp, K.; et al., 89b:93095**

Yakovlev, A. I. Determination of statistically optimal systems by successively applied criteria for accuracy. (Russian. English summary) **89e:90128**

Zabczyk, J. *see* **Da Prato, G., 89b:60149**

93E05 Stochastic games, stochastic differential games

Belbas, S. A. The dynamic programming equations for stochastic games with discrete actions. **89g:93089**

Fleming, W. H. (*with* Souganidis, P. E.) Two-player, zero-sum stochastic differential games. **89g:93090**

Gaidov, S. D. Berge-equilibrium in stochastic differential games. **89d:93092**

— Two cooperative solutions in stochastic differential games. **89g:93091**

Miloh, T. *see* **de Villiers, R.; et al., 89k:93192**

Souganidis, P. E. *see* **Fleming, W. H., 89g:93090**

Tönsing, H. *see* **Yavin, Y., 89j:93103**

de Villiers, R. (*with* Miloh, T.; Yavin, Y.) Stochastic pursuit-evasion differential games in 3D: the case of variable speed. **89k:93192**

Yavin, Y. (*with* Tönsing, H.) Game of two cars with containment probability as cost function. **89j:93103**

— Stochastic two-target pursuit-evasion differential games in the plane. **89c:93068**

— *see also* **de Villiers, R.; et al., 89k:93192**

Items with secondary classifications in 93E05

Baĭsakalov, I. B. Optimal control of a stochastic system under conditions of uncertainty. (Russian) **89e:49008**

Balakrishnan, S. N. (*with* Speyer, Jason L.) Assumed density filter with application to homing missile guidance. **89k:93193**

Başar, Tamer Solutions to a class of nonstandard stochastic control problems with active learning. **89j:93137**

Belbas, S. A. (*with* Mayergoyz, I. D.) Applications of fixed-point methods to discrete variational and quasivariational inequalities. **89a:49008**

Bernhard, Pierre (*with* Colomb, Annie-Laure) Saddle point conditions for a class of stochastic dynamical games with imperfect information. **89a:90175**

Chow, Gregory C. ★ Analysis and control of dynamic economic systems. **89d:90060**

Colomb, Annie-Laure *see* **Bernhard, Pierre, 89a:90175**

Gaidov, S. D. Pareto-optimality in stochastic differential games. (Russian summary) **89f:90217**

Heath, David C. (*with* Kertz, Robert P.) Leaving an interval in limited playing time. **89i:90102**

Ishii, Hitoshi On uniqueness and existence of viscosity solutions of fully nonlinear second-order elliptic PDEs. **89m:35070**

Kertz, Robert P. *see* **Heath, David C., 89i:90102**

Krasovskiĭ, A. N. Construction of mixed strategies on the basis of stochastic programs. **89j:93142**

Lions, Pierre-Louis (*with* Souganidis, P. E.) Viscosity solutions of second-order equations, stochastic control and stochastic differential games. **89e:49021**

Mayergoyz, I. D. *see* **Belbas, S. A., 89a:49008**

Papavassilopoulos, G. P. *see* **Tu, M., 89f:90213**

Souganidis, P. E. *see* **Lions, Pierre-Louis, 89e:49021**

Speyer, Jason L. *see* **Balakrishnan, S. N., 89k:93193**

Thuijsman, Frank Non-zerosum stochastic games. **89a:90176**

Tret′yakov, V. E. Synthesis of optimal guaranteeing control. (Russian summary) **89i:93126**

Tu, M. (*with* Papavassilopoulos, G. P.) Performance versus informativeness in linear-quadratic Gaussian noncooperative games. **89f:90213**

de Villiers, R. *see* **Yavin, Y., 89k:90202**

Yavin, Y. (*with* de Villiers, R.) Stochastic pursuit-evasion differential games in 3D. **89k:90202**

93E10 Estimation and detection

Ahlén, Anders *see* **Sternad, Mikael**, (Not in MR)

Aihara, S.-I. (*with* Sunahara, Y.) Identification of an infinite-dimensional parameter for stochastic diffusion equations. **89i:93103**

Bahr, Randall K. (*with* Bucklew, James A.) Minimax estimation of continuous time deterministic signals in colored noise. **89i:93104**

Balakrishnan, S. N. (*with* Speyer, Jason L.) Assumed density filter with application to homing missile guidance. **89k:93193**

Balmer, L. *see* **Douce, J. L.**, (Not in MR)

Bernstein, Dennis S. (*with* Hyland, D. C.) Optimal projection equations for reduced-order modelling, estimation, and control of linear systems with multiplicative white noise. **89j:93104**

Billings, S. A. *see* **Leontaritis, I. J., 89b:93100** *and* **Korenberg, M. J.; et al., 89e:93184**

Bloch, Anthony M. A geometric approach to errors-in-variables models. (*see* **89f:00025**)

Bucklew, James A. *see* **Bahr, Randall K., 89i:93104**

Chen, Guan Rong *see* **Chui, C. K., 89d:93093**

Chisci, Luigi High speed RLS parameter estimation by systolic-like arrays. (*see* **89g:93002**)

Christakos, George A simple approach to nonlinear estimation of physical systems. (*see* **89d:00007**)

Chui, C. K. (*with* Chen, Guan Rong) ★ Kalman filtering with real-time applications. **89d:93093**

Dai, Guan Zhong *see* **Wang, Li Xin, 89g:93093**

Demirbaş, Kerim Fast state estimation scheme for multidimensional dynamic systems. (Not in MR)

Douce, J. L. (*with* Balmer, L.) Frequency response estimates using short data blocks. (Russian summary) (Not in MR)

Dovbysh, I. G. Estimation of noise parameters in dynamic systems. (Russian. English summary) **89b:93099**

Dowell, Earl H. *see* **Miyazawa, Yoshikazu**, (Not in MR)

Elsayed, A. (*with* Shaked, U.; Grimble, M. J.) Application of spectral factorization to the linear discrete-time fixed-point smoothing problem. (Not in MR)

Ermol′eva, T. Yu. (*with* Knopov, P. S.) Asymptotic properties of the estimator of the mean of a stationary process in the presence of constraints. (Russian. English summary) **89k:93194**

Fioretti, S. (*with* Jetto, L.) Accurate derivative estimation from noisy data: a state-space approach. (Not in MR)

Fisher, D. Grant *see* **Sripada, N. Rao, 89a:93048** *and* **Lu, Weiping, 89e:93185**

Fomin, V. N. *see* **Petrov, O. A., 89j:93109**

Fresewinkel, T. Recursive estimation of order and parameters of a pilot plant turbo generator. (*see* **89a:00025**)

Friedlander, B. *see* **Stoica, Petre; et al., 89b:93102** *and* (Not in MR)

Grimble, M. J. *see* **Elsayed, A.; et al.**, (Not in MR)

Habib, M. K. *see* **Thavaneswaran, A., 89e:93189**

Hangos, Katalin M. *see* **Kárný, Miroslav, 89j:93106**

Hartwell, Walter T. *see* **Picone, Joseph; et al., 89i:93106**

Humbert, C. *see* **Mehdi, D., 89g:93092**

Hut, R. (*with* Olsder, Geert J.) An application of adaptive optimal control. **89i:93105**

Hyland, D. C. *see* **Bernstein, Dennis S., 89j:93104**

Jetto, L. *see* **Fioretti, S.**, (Not in MR)

Kalaba, Robert E. (*with* Tesfatsion, Leigh) Exact sequential filtering, smoothing and prediction for nonlinear systems. **89j:93105**

Kárný, Miroslav (*with* Hangos, Katalin M.) One-sided approximation of Bayes rule and its application to regression model with Cauchy noise. **89j:93106**

Knopov, P. S. *see* **Ermol′eva, T. Yu., 89k:93194**

Konev, V. V. (*with* Pergamenshchikov, S. M.) Guaranteed estimation of the parameters of unstable dynamical systems. **89k:93195**

Korbicz, Józef (*with* Zgurovskiĭ, M. Z.; Novikov, A. N.) Suboptimal sensors location in the state estimation problem for stochastic nonlinear distributed parameter systems. (Not in MR)

Korenberg, M. J. (*with* Billings, S. A.; Liu, Yan Ping; McIlroy, P. J.) Orthogonal parameter estimation algorithm for nonlinear stochastic systems. **89e:93184**

Kowalski, Aleksander (*with* Szynal, D.) On state estimation and control in discrete-time systems of linear type. **89k:93196**

Kurzhanskiĭ, A. B. On stochastic filtering approximations of estimation problems for systems with uncertainty. **89a:93047**

Leontaritis, I. J. (*with* Billings, S. A.) Prediction error estimator for nonlinear stochastic systems. **89b:93100**

Levoshich, O. L. Minimax estimation of the solutions of linear algebraic equations by the entropy criterion. (Russian) **89k:93197**

Li, Si Fu A state space form of model algorithmic control and algorithm improvement. (Chinese. English summary) **89c:93069**

Liu, Yan Ping *see* **Korenberg, M. J.; et al., 89e:93184**

LoCicero, Joseph L. *see* **Picone, Joseph; et al., 89i:93106**

Lu, Weiping (*with* Fisher, D. Grant) Output estimation with multirate sampling. **89e:93185**

Ma, Jin On state estimation with infinite duration. (Chinese. English summary) **89e:93186**

Malinina, T. B. *see* **Smyshlyaeva, L. G., 89j:93110**

McIlroy, P. J. *see* **Korenberg, M. J.; et al., 89e:93184**

Mehdi, D. (*with* Humbert, C.) Simulation studies on sample convergence in parameter estimation of discrete time stochastic process with stochastic parameters. **89g:93092**

Miyazawa, Yoshikazu (*with* Dowell, Earl H.) An estimator for uncertain output matrix systems. (Not in MR)

Nishikawa, Yoshikazu *see* **Shirazi, M. N.; et al., 89k:93199**

Niu, Shao Hua (*with* Xiao, De Yun) A recursive algorithm for parameter estimation and order identification of SISO models. (Chinese. English summary) **89j:93107**

Novikov, A. N. *see* **Korbicz, Józef; et al.**, (Not in MR)

Olsder, Geert J. *see* **Hut, R., 89i:93105**

Osipov, Yu. S. Problems of dynamical reconstruction. (Russian) **89e:93187**

Pearson, Ronald K. Block-sequential algorithms for set-theoretic estimation. **89j:93108**

Pergamenshchikov, S. M. *see* **Konev, V. V., 89k:93195**

Petrov, O. A. (*with* Fomin, V. N.) Linear optimal estimation of nonstationary random processes and factorization of correlation operators. **89j:93109**

Pickett, E. E. *see* **Whiting, R. G.**, (Not in MR)

Picone, Joseph (*with* Prezas, Dimitrios P.; Hartwell, Walter T.; LoCicero, Joseph L.) Spectrum estimation using an analytic signal representation. (French and German summaries) **89i:93106**

Prezas, Dimitrios P. *see* **Picone, Joseph; et al., 89i:93106**

Qi, Xiao-Jiang Adaptive prediction for ARMA processes with Markov switching parameters. **89b:93101**

Ramm, A. G. Signal estimation from incomplete data. **89d:93094**

— Optimal estimation from limited noisy data. **89k:93198**

Ray, Goshaidas On-line state and parameter estimation of multivariable systems based on transformed model. (Not in MR)

Sannomiya, N. *see* **Shirazi, M. N.; et al., 89k:93199**

Segal, Mordechai (*with* Weinstein, Ehud) A new method of evaluating the log-likelihood gradient (score) of linear dynamic systems. **89d:93095**

Shaked, U. *see* **Soroka, E., 89i:93107** *and* **Elsayed, A.; et al.**, (Not in MR)

Shirazi, M. N. (*with* Sannomiya, N.; Nishikawa, Yoshikazu) Robust ε-contaminated Gaussian filtering of discrete-time linear systems. **89k:93199**

Smyshlyaeva, L. G. (*with* Malinina, T. B.) Optimal reduction of the dimension of the estimation vector in the Kalman filter. **89j:93110**

Söderström, Torsten *see* **Stoica, Petre; et al., 89b:93102** *and* (Not in MR)

Soroka, E. (*with* Shaked, U.) The properties of reduced-order minimum-variance filters for systems with partially perfect measurements. **89i:93107**

Spathopoulos, M. P. A two-level parameter estimation algorithm for large-scale systems. **89d:93096**

Speyer, Jason L. *see* **Balakrishnan, S. N., 89k:93193**

Sripada, N. Rao (*with* Fisher, D. Grant) Improved least squares identification. **89a:93048**

Sternad, Mikael (*with* Ahlén, Anders) Correspondences between input estimation and feedforward control. (Not in MR)

Stoica, Petre (*with* Friedlander, B.; Söderström, Torsten) Instrumental variable methods for ARMA models. **89b:93102**

— (*with* Friedlander, B.; Söderström, Torsten) A high-order Yule-Walker method for estimation of the AR parameters of an ARMA model. (Not in MR)

Stoyan, V. A. Minimax filtering of space-time noise of forced oscillations of elastic rods. (Russian) **89k:93200**

Sugisaka, Masanori The design of a Chandrasekhar-type filter via imbedding method. **89e:93188**

Sunahara, Y. *see* **Aihara, S.-I., 89i:93103**

Szynal, D. *see* **Kowalski, Aleksander, 89k:93196**

Takeda, Hiroshi *see* **Zhang, Xian Da, 89j:93111**

Terdik, G. Generalized Hermite polynomials and estimation of kernels for discrete I/O Wiener models. (Russian summary) **89d:93097**

Tesfatsion, Leigh *see* **Kalaba, Robert E., 89j:93105**

Thavaneswaran, A. (*with* Unny, T. E.) Algorithm for the exact likelihood of a counting process. **89d:93098**

— (*with* Habib, M. K.) Recursive parameter estimation for semimartingales. **89e:93189**

Unny, T. E. *see* **Thavaneswaran, A., 89d:93098**

Wang, Li Xin (*with* Dai, Guan Zhong) A survey of distributed estimation theories. (Chinese. English summary) **89g:93093**

Weinstein, Ehud (*with* Weiss, Anthony J.) A general class of lower bounds in parameter estimation. **89c:93070**

— Relations between Belini-Tartara, Chazan-Zakai-Ziv, and Wax-Ziv lower bounds. (Not in MR)

— *see also* **Segal, Mordechai, 89d:93095**

Weiss, Anthony J. *see* **Weinstein, Ehud, 89c:93070**

Wessel, Alan (*with* Wise, G. L.) On estimation of random variables via the martingale convergence theorem. **89e:93190**

Whiting, R. G. (*with* Pickett, E. E.) On model order estimation for partially observed Markov chains. (Not in MR)

Wise, G. L. *see* **Wessel, Alan, 89e:93190**

Xiao, De Yun *see* **Niu, Shao Hua, 89j:93107**

Yang, Jin *see* **Zhou, Zhao Ying**, (Not in MR)

Yaz, Engin On the optimal state estimation of a class of discrete-time nonlinear systems. **89e:93191**

— Implications of a result on observer design for stochastic parameter systems. **89b:93103**

Zarrop, M. B. Variance calculations for two-dimensional ARMA processes. (Not in MR)

— Corrigendum: "Variance calculations for two-dimensional ARMA processes" [Internat. J. Control **48** (1988), no. 1, 29–32]. (Not in MR)

Zgurovskiĭ, M. Z. *see* **Korbicz, Józef; et al.**, (Not in MR)

Zhang, Xian Da (*with* Takeda, Hiroshi) An approach to time series analysis and ARMA spectral estimation. **89j:93111**

Zhou, Zhao Ying (*with* Yang, Jin) Dynamic parameter estimation based on spectral analysis. (Chinese. English summary) (Not in MR)

Items with secondary classifications in 93E10

Arce, Gonzalo R. (*with* Gallagher, Neal C., Jr.) Stochastic analysis for the recursive median filter process. (Not in MR)

Badawi, Faris A. (*with* Lindquist, Anders) A stochastic realization approach to the discrete-time Mayne-Fraser smoothing formula. **89d:93110**

Baltrūnas, Jonas (*with* Rudzkienė, V.) Nonparametric estimation of nonlinear autoregression processes. I. Statistical properties of estimates. (Russian. Lithuanian summary) **89a:62087**

Baras, J. S. An optimization problem from linear filtering with quantum measurements. **89g:93094**

— (*with* Bensoussan, A.; James, M. R.) Dynamic observers as asymptotic limits of recursive filters: special cases. **89j:93010**

Basseville, M. (*with* Benveniste, A.; Moustakides, G.; Rougée, A.) Detection of abrupt changes in the modal characteristics of nonstationary vector signals. **89c:62149**

Bensoussan, A. On some approximation techniques in nonlinear filtering. **89d:93099**

— *see also* **Baras, J. S.; et al., 89j:93010**

Benveniste, A. *see* **Basseville, M.; et al., 89c:62149**

Beumee, J. G. B. (*with* Rabitz, Herschel) On the use of filtering theory for the inversion of temporal chemical systems: mathematical formulation. **89e:93148**

Bittanti, Sergio (*with* Colaneri, Patrizio; De Nicolao, Giuseppe) Two techniques for the solution of the discrete-time periodic Riccati equation. **89i:93022**

Boschková, Monika Self-tuning controls of linear stochastic systems in presence of drift. **89k:93128**

Brémaud, P. An averaging principle for filtering a jump process with point process observations. **89i:62157**

Catlin, Donald E. ★ Estimation, control, and the discrete Kalman filter. **89k:93001**

Chang, Kun Soo *see* **Lee, Kwang Soon**, (Not in MR)

Chang, Tong *see* **Xu, Lei; et al., 89f:94007a** *and* **89f:94007b**

Chen, Han Fu (*with* Guo, Lei) Robust identification of discrete-time stochastic systems. **89j:93125**

Chen, Jiande (*with* Vandewalle, Joos; Sansen, Willy M. C.; Vantrappen, Gaston; Janssens, Jozef) Detection of gastric signals from cutaneous abdominal measurements. (*see* **89c:00031**)

Chernous′ko, F. L. ★ Оценивание фазового состояния динамических систем. (Russian) [Estimation of the phase state of dynamical systems] **89k:49028**

Chong, B. W. *see* **Hang, C. C.; et al.**, (Not in MR)

Colaneri, Patrizio *see* **Bittanti, Sergio; et al., 89i:93022**

Dembo, A. *see* **Zeitouni, O., 89h:60068**

De Nicolao, Giuseppe *see* **Bittanti, Sergio; et al., 89i:93022**

Dickinson, Bradley W. *see* **Li, Shiping, 89d:94004**

Dmitriev, Yu. G. (*with* Koshkin, G. M.) The use of additional information for the nonparametric estimation of density functionals. (Russian. English summary) **89a:62094**

Doncarli, C. *see* **Goerig, L.**, (**89c:00031**)

Duncan, T. E. Explicit solutions for an estimation problem in manifolds associated with Lie groups. **89j:58142**
— *see also* **Mandl, Petr; et al., 89i:93113**
Dyumin, A. F. (*with* Egorov, S. N.) Reduction of the matrix Riccati differential equation in the problem of optimal linear estimation of the state of a partially observable dynamic object. (Russian) **89j:93115**
Egorov, S. N. *see* **Dyumin, A. F., 89j:93115**
Fadeeva, E. P. Explicit linear filtering formulas when the receivable signal is *L*-Markovian. (Russian) **89i:93109**
Favier, G. Numerically efficient adaptive identification algorithms. (French summary) **89e:93206**
Friedlander, B. *see* **Stoica, Petre; et al., 89c:62162**
Gabor, Andrzej Nonlinear orthogonal filters. (*see* **89b:93010**)
Gallagher, Neal C., Jr. *see* **Arce, Gonzalo R.**, (Not in MR)
Gao, Jian Guo *see* **Shao, Hui He; et al.**, (Not in MR)
Gardner, William A. Correlation estimation and time-series modeling for nonstationary processes. (French and German summaries) **89f:62075**
Gauthier, J.-P. (*with* Kazakos, D.) Observabilité et observateurs de systèmes non linéaires. (English summary) [Observability and observers of nonlinear systems] **89d:93012**
Gawronski, Wlodzimierz (*with* Natke, H. G.) Order estimation of AR and ARMA models. **89e:93132**
Goerig, L. (*with* Doncarli, C.) Lissage-détection de signaux non stationnaires. (English summary) [Smoothing and detection of nonstationary signals] (*see* **89c:00031**)
Goodwin, Graham C. (*with* Middleton, R.) Continuous and discrete adaptive control. **89a:93032**
Guo, Lei *see* **Chen, Han Fu, 89j:93125**
Gusev, M. I. On the stability of solution of the inverse problems in control system dynamics. (Russian summary) **89i:93031**
Haber, R. Parametric identification of nonlinear dynamic systems based on nonlinear crosscorrelation functions. (Not in MR)
Hang, C. C. (*with* Lim, K. W.; Chong, B. W.) A dual-rate adaptive digital Smith predictor. (Not in MR)
Hernández, Diego Bricio Noise: its characterization, elimination and synthesis. (Spanish) (*see* **89k:00008**)
Heunis, A. J. Nonlinear filtering of rare events with large signal-to-noise ratio. **89g:60149**
James, M. R. *see* **Baras, J. S.; et al., 89j:93010**
Janssens, Jozef *see* **Chen, Jiande; et al.**, (**89c:00031**)
Jiang, Xiao Hua An algorithm with decreasing adaptive gains for multivariable discrete model reference adaptive systems. (Chinese. English summary) **89f:93027**
Junkins, John L. *see* **Mook, D. Joseph, 89m:93086**
Karlov, V. I. (*with* Krasil′shchikov, M. N.) Optimization of the measurement process in dynamic systems for different optimality criteria. **89e:93222**
Kassam, Saleem A. ★ Signal detection in non-Gaussian noise. **89f:94005**
Kazakos, D. *see* **Gauthier, J.-P., 89d:93012**
Kimura, Morishige Convergence of the doubling algorithm for the discrete-time algebraic Riccati equation. **89j:93040**
Kocherga, Yu. L. Minimax control optimization in hydrological processes. **89j:93079**
Kolodziej, Wojciech J. (*with* Mohler, Ronald R.) On structurally decomposing processes. **89m:93091**
Koshkin, G. M. *see* **Dmitriev, Yu. G., 89a:62094**
Kozin, F. Structural parameter identification techniques. **89g:93102**
Krasil′shchikov, M. N. *see* **Karlov, V. I., 89e:93222**
Krasovskiĭ, A. A. Cyclic estimation in the primary processing of sensor signals. **89j:93120**
Kryazhimskiĭ, A. V. Optimization of the ensured result for the dynamical systems. **89d:49025**
Kuntsevich, V. M. Determination of guaranteed estimates for the state vectors and parameters of discrete dynamical systems. (Russian) **89e:93067**
Kushner, Harold J. (*with* Runggaldier, Wolfgang J.) Filtering and control for wide bandwidth noise and "nearly" linear systems. **89j:93121**
Lee, Kwang Soon (*with* Chang, Kun Soo) Discrete-time modelling of distributed parameter systems for state estimator design. (Not in MR)
Levoshich, O. L. *see* **Nakonechnyĭ, A. G., 89f:94010**
Li, Shiping (*with* Dickinson, Bradley W.) Application of the lattice filter to robust estimation of AR and ARMA models. **89d:94004**
Lii, Keh Shin (*with* Rosenblatt, Murray) Estimation and deconvolution when the transfer function has zeros. **89b:62196**
Lim, K. W. *see* **Hang, C. C.; et al.**, (Not in MR)
Lindquist, Anders *see* **Badawi, Faris A., 89d:93110**
Litvinov, V. V. Operation of a device for searching for a pseudorandom sequence with respect to delay under complex noise. (Russian. English summary) (Not in MR)
Lu, Yuan Zhang *see* **Xiong, Yu Fei, 89f:62084**
Malebranche, H. Simultaneous state and parameter estimation and location of sensors for distributed systems. **89i:93110**
Mallieu, D. *see* **Rousseaux, P.; et al.**, (Not in MR)
Mamedov, M. I. *see* **Zgurovskiĭ, M. Z.; et al., 89g:93103**
Mandl, Petr (*with* Duncan, T. E.; Pasik-Duncan, B.) On the consistency of a least squares identification procedure. **89i:93113**
Mednieks, I. B. (*with* Mikelson, A. K.) Peculiarities of the application of pseudostochastic discretization. (Russian) **89j:94007**
Middleton, R. *see* **Goodwin, Graham C., 89a:93032**
Mikelson, A. K. *see* **Mednieks, I. B., 89j:94007**
Mohler, Ronald R. *see* **Kolodziej, Wojciech J., 89m:93091**
Mook, D. Joseph (*with* Junkins, John L.) Minimum model error estimation for poorly modeled dynamic systems. **89m:93086**
Moore, John Barratt Convergence of continuous time stochastic ELS parameter estimation. **89h:93053**
Moustakides, G. *see* **Basseville, M.; et al., 89c:62149**
Nakamori, Seiichi New identification technique of linear stochastic systems by covariance information. (French summary) **89d:93108**
Nakonechnyĭ, A. G. (*with* Levoshich, O. L.) Optimal estimates for random vectors from informational criteria. (Russian) **89f:94010**
Natke, H. G. *see* **Gawronski, Wlodzimierz, 89e:93132**
Niedźwiecki, Maciej Functional series modeling approach to identification of nonstationary stochastic systems. **89j:93132**
Norton, J. P. ★ An introduction to identification. **89e:93210**
Omatu, Sigeru Optimal estimation theory for distributed parameter systems. **89f:93040**
Pasik-Duncan, B. *see* **Mandl, Petr; et al., 89i:93113**
Rabitz, Herschel *see* **Beumee, J. G. B., 89e:93148**
Ribbens-Pavella, M. *see* **Rousseaux, P.; et al.**, (Not in MR)
Rosenblatt, Murray *see* **Lii, Keh Shin, 89b:62196**
Rougée, A. *see* **Basseville, M.; et al., 89c:62149**
Rousseaux, P. (*with* Mallieu, D.; Van Cutsem, Th.; Ribbens-Pavella, M.) Dynamic state prediction and hierarchical filtering for power system state estimation. (Not in MR)
Rudzkienė, V. *see* **Baltrūnas, Jonas, 89a:62087**
Runggaldier, Wolfgang J. *see* **Kushner, Harold J., 89j:93121**
Rust, John Maximum likelihood estimation of discrete control processes. **89k:62112**
Sansen, Willy M. C. *see* **Chen, Jiande; et al.**, (**89c:00031**)
Selin, A. N. *see* **Zgurovskiĭ, M. Z.; et al., 89g:93103**
Shao, Hui He (*with* Yu, An Ran; Gao, Jian Guo) Minimum time control of a polymerization reactor for epoxy resin. (Chinese) (Not in MR)
Sibiryakov, V. P. A quasioptimal estimate for the state vector of a dynamical system under non-Markov perturbations. (Russian) (*see* **89c:00019**)
Sinai, Massoud Suboptimality bounds on decentralized control and estimation of large-scale discrete-time linear systems. **89e:93009**
Söderström, Torsten *see* **Stoica, Petre; et al., 89c:62162**
Stoica, Petre (*with* Friedlander, B.; Söderström, Torsten) Asymptotic bias of the high-order autoregressive estimates of sinusoidal frequencies. **89c:62162**
Tarantola, Albert ★ Inverse problem theory. **89b:65007**
Taylor, Thomas J. On the small time behavior of the nonlinear estimation problem for finite bandwidth signals. **89g:60195**
Tempo, R. (*with* Wasilkowski, G. W.) Maximum likelihood estimators and worst case optimal algorithms for system identification. (Not in MR)
Van Cutsem, Th. *see* **Rousseaux, P.; et al.**, (Not in MR)
Vandewalle, Joos *see* **Chen, Jiande; et al.**, (**89c:00031**)
Vantrappen, Gaston *see* **Chen, Jiande; et al.**, (**89c:00031**)
Walden, A. T. A comparison of stochastic gradient and minimum entropy deconvolution algorithms. (French and German summaries) **89i:94012**
Wang, Zhen Xue Generalized predictive control based on a stochastic reference input. (Chinese. English summary) **89f:93048**
Wasilkowski, G. W. *see* **Tempo, R.**, (Not in MR)
Wu, Qi Guang Admissibility of linear estimates of stochastic regression coefficients and parameters under matrix loss. (Chinese. English summary) **89g:62112**
Xiong, Yu Fei (*with* Lu, Yuan Zhang) Structure identification and parameter estimation of multivariate ARMAX. (Chinese. English summary) **89f:62084**
Xu, Lei (*with* Yan, Ping Fan; Chang, Tong) Semiblind deconvolution of finite length sequence. I. Linear problem. **89f:94007a**
— (*with* Yan, Ping Fan; Chang, Tong) Semiblind deconvolution of finite length sequence. II. Nonlinear problem. **89f:94007b**
Xu, Min^2 *see* **Zhu, Hua**, (Not in MR)
Yan, Ping Fan *see* **Xu, Lei; et al., 89f:94007a** *and* **89f:94007b**
Yang, Shu Zi *see* **Zheng, Xiao Jun^2, 89j:62133**
Yu, An Ran *see* **Shao, Hui He; et al.**, (Not in MR)
Zeitouni, O. (*with* Dembo, A.) Exact filters for the estimation of the number of transitions of finite-state continuous-time Markov processes. **89h:60068**
Zgurovskiĭ, M. Z. (*with* Selin, A. N.; Mamedov, M. I.) Estimation of the states and parameters of atmospheric processes with the use of a combined approach. **89g:93103**
Zhang, Zhi Yong The whitening residual error technique to determine the structure of vector difference equations. (Chinese. English summary) (Not in MR)
Zheng, Xiao Jun^2 (*with* Yang, Shu Zi) A classification of autoregressive spectral estimation algorithms and its application. (Chinese. English summary) **89j:62133**
Zhu, Hua (*with* Xu, Min^2) The ARPE method for estimating power spectra. (Chinese. English summary) (Not in MR)

93E11 Filtering

Abutaleb, Ahmed S. An adaptive filter for noise cancelling. (Not in MR)
Alexander, Winser E. Spatial domain filters for image processing. **89b:93104**
Arede, T. A class of solvable nonlinear filters. **89j:93112**
(Åström, K. J.) *see* **Johnson, M. A.**, (Not in MR)
Bagchi, Arunabha *see* **Mazumdar, Ravi**, (**89b:93010**)
Balakrishnan, A. V. ★ Теория фильтрации Калмана. (Russian) [Kalman filtering theory] **89j:93113**
Banek, Tadeusz Filtering of some nonlinear diffusions satisfying the general Beneš condition. **89k:93201**
Baras, J. S. An optimization problem from linear filtering with quantum measurements. **89g:93094**
— *see also* **James, M. R., 89m:93082**
Bar-Itzhack, I. Y. *see* **Oshman, Yaakov, 89k:93205**
Bashirov, A. È. On linear filtering under dependent wide-band noise. **89g:93095**
Bensoussan, A. On some approximation techniques in nonlinear filtering. **89d:93099**
Blankenship, Gilmer L. (*with* LaVigna, A.; MacEnany, D. C.; Quadrat, J.-P.; Yan, I.) A MACSYMA/expert system for nonlinear filtering. **89j:93114**
Bobrovsky, B. Z. (*with* Zakai, Moshe; Zeitouni, O.) Error bounds for the nonlinear filtering of signals with small diffusion coefficients. **89m:93081**
— *see also* **Steinberg, Y.; et al., 89j:93123**
Boĭchuk, L. M. Invariant filtering of discrete processes. (Not in MR)
Borowczyk, Włodzimierz Design of an optimal linear filter, intended for smoothing and prediction, that satisfies the condition of minimum variance of random error. (Polish. English and Russian summaries) (Not in MR)

Bovik, Alan Conrad *see* **Longbotham, Harold Gene, 89k:93203**

Brannan, James R. *see* **Reneke, James A., 89e:93199**

Bucy, R. S. (*with* Campbell, L. A.) Determination of steady state behavior for periodic discrete filtering problems. **89e:93192**

Bullock, Thomas E. *see* **Sangsuk-Iam, Suwanchai, 89k:93207**

Campbell, L. A. *see* **Bucy, R. S., 89e:93192**

Chaleyat-Maurel, M. Continuity in nonlinear filtering. Some different approaches. **89d:93100**

Chandra, Jagdish (*with* Ladde, G. S.; Sirisaengtaksin, O.) Multi-time method for large-scale filtering. **89g:93096**

Ch'ên, Po Hsien (*with* Dong, Tay Yuh) Robust stability analysis of Kalman-Bucy filter under parametric and noise uncertainties. **89k:93202**

Chui, C. K. (*with* Green, Robert E.) Adaptive Kalman filtering for instrumentation radar. **89b:93105**

Cohen, Robert A filtering formula for a nonlinear system having a continuous observation, and a discrete observation at random times. **89e:93193**

Dembo, A. *see* **Zeitouni, O., 89e:93201** *and* **89g:93100**

Deng, Zi Li (*with* Wang, Jian Guo) Adaptive extended Kalman filtering for nonlinear systems. (Chinese. English summary) **89g:93097**

— (*with* Wang, Jian Guo) A fictitious noise compensating technique of adaptive Kalman filtering for systems with model errors. (Chinese. English summary) (Not in MR)

Di Masi, Giovanni B. (*with* Runggaldier, Wolfgang J.) Asymptotic analysis for piecewise linear filtering. (*see* **89c:00031**)

Dong, Tay Yuh *see* **Ch'ên, Po Hsien, 89k:93202**

Dyumin, A. F. (*with* Egorov, S. N.) Reduction of the matrix Riccati differential equation in the problem of optimal linear estimation of the state of a partially observable dynamic object. (Russian) **89j:93115**

Egorov, S. N. *see* **Dyumin, A. F., 89j:93115**

El-Sharkawy, Mohamed A. (*with* Peikari, Behrouz) Multistage adaptive stochastic filters. (Not in MR)

Eweda, Eweda Almost sure convergence of a decreasing gain sign algorithm for adaptive filtering. **89i:93108**

Fadeeva, E. P. Explicit linear filtering formulas when the receivable signal is L-Markovian. (Russian) **89i:93109**

— Linear filtering of a two-dimensional process with stationary components that have a joint quasirational spectral density. (Russian) (Not in MR)

Fleming, R. J. *see* **Irwin, G. W.**, (Not in MR)

Fleming, W. H. (*with* Ji, D.; Pardoux, É.) Piecewise linear filtering with small observation noise. **89j:93116**

Gabor, Andrzej Nonlinear orthogonal filters. (*see* **89b:93010**)

Germani, A. (*with* Jetto, L.; Piccioni, M.) Galerkin approximation for optimal linear filtering of infinite-dimensional linear systems. **89c:93071**

— (*with* Jetto, L.; Piccioni, M.) Galerkin approximation for optimal linear filtering of infinite-dimensional linear systems. **89j:93117**

Glonti, O. A. Nonlinear filtering of stochastic processes and optimal signal transmission through a feedback channel. **89e:93194**

Golubev, G. A. Design of minimax linear filters on the basis of a local and an integral criterion. **89j:93118**

Gombani, Andrea (*with* Pavon, Michele) Approximate Wiener-Kolmogorov filters. **89e:93195**

Green, Robert E. *see* **Chui, C. K., 89b:93105**

Grimble, M. J. Single versus double Diophantine equation debate. Comments on: "Polynomial approach to Wiener filtering" [Internat. J. Control **47** (1988), no. 3, 681–696; MR 89a:93050] by A. P. Roberts and M. M. Newmann. **89j:93119**

— *see also* **Johnson, M. A.**, (Not in MR)

Haussmann, U. G. Nonlinear filtering—the degenerate case. **89e:93196**

Hazewinkel, M. Lie algebraic methods in filtering and identification. **89g:93098a**

— Lectures on linear and nonlinear filtering. **89f:93039**

— Lie algebraic method in filtering and identification. **89g:93098b**

Hopkins, William E., Jr. (*with* Wong, Wing Shing) Implementation issues in product formulas for nonlinear filtering. **89c:93072**

Irwin, G. W. (*with* Fleming, R. J.) Analysis of coloured filter controllers for bank-to-turn CLOS guidance. (Not in MR)

James, M. R. (*with* Baras, J. S.) Nonlinear filtering and large deviations: a PDE-control theoretic approach. **89m:93082**

Jetto, L. *see* **Germani, A.; et al., 89c:93071** *and* **89j:93117**

Ji, D. *see* **Fleming, W. H.; et al., 89j:93116**

Johnson, M. A. (*with* Odonde, J. O.) Comments on: "Frequency-domain properties of Kalman filters" [Internat. J. Control **45** (1987), no. 3, 907–925; MR 88a:93066] by M. J. Grimble and K. J. Åström. (Not in MR)

Jonckheere, Edmond *see* **Kitapçi, Aysin; et al., 89a:93049**

Kalouptsidis, N. Efficient computation of multichannel Wiener filters with linear phase. (Not in MR)

Kitapçi, Aysin (*with* Jonckheere, Edmond; Silverman, Leonard) Singular optimal filtering. **89a:93049**

Kliokys, Edvardas Optimal filtering in systems with random structure and discrete time. (Russian. English summary) **89e:93197**

Krasovskiĭ, A. A. Cyclic estimation in the primary processing of sensor signals. **89j:93120**

Krener, Arthur J. The asymptotic approximation of nonlinear filters by linear filters. **89d:93101**

Kushner, Harold J. (*with* Runggaldier, Wolfgang J.) Filtering and control for wide bandwidth noise and "nearly" linear systems. **89j:93121**

Ladde, G. S. *see* **Chandra, Jagdish; et al., 89g:93096**

LaVigna, A. *see* **Blankenship, Gilmer L.; et al., 89j:93114**

Longbotham, Harold Gene (*with* Bovik, Alan Conrad) Theory of order statistic filters and their relationship to linear FIR filters. **89k:93203**

Luo, Xu Cheng The symmetric partitioning expression for a covariance matrix and its application. (Chinese. English summary) (Not in MR)

MacEnany, D. C. *see* **Blankenship, Gilmer L.; et al., 89j:93114**

Malebranche, H. Simultaneous state and parameter estimation and location of sensors for distributed systems. **89i:93110**

Mayer-Wolf, E. (*with* Zakai, Moshe; Zeitouni, O.) On the memory length of the optimal nonlinear filter. **89c:93073**

Mazumdar, Ravi (*with* Bagchi, Arunabha) A finitely additive white noise approach to filtering for two-parameter diffusion processes. (*see* **89b:93010**)

— *see also* **Seo, Jin H., 89a:93051**

Mil'shteĭn, G. N. (*with* P'yanzin, S. A.) Regularization and digital modeling of a Kalman-Bucy filter for systems with degenerate noise in the observations. (Russian. English summary) **89h:93050**

Miyahara, Yoshio A theorem of the stability of nonlinear filtering systems. **89d:93102**

Moore, John Barratt (*with* Tay, T. T.) Adaptive frequency shaped Kalman filters. **89k:93204**

Nakonechnyĭ, A. G. (*with* Navrodskiĭ, V. A.) On minimax estimates for functionals of solutions of stochastic differential equations. (Russian) (Not in MR)

Navrodskiĭ, V. A. *see* **Nakonechnyĭ, A. G.**, (Not in MR)

Newmann, M. M. *see* **Roberts, A. P., 89a:93050** *and* **Grimble, M. J., 89j:93119**

(Novikov, A. A.) *see* **Balakrishnan, A. V., 89j:93113**

Ocone, Daniel Existence of densities for statistics in the cubic sensor problem. **89c:93074**

Odonde, J. O. *see* **Johnson, M. A.**, (Not in MR)

Omatu, Sigeru Optimal estimation theory for distributed parameter systems. **89f:93040**

— (*with* Seinfeld, John H.) Optimal estimators for time-averaged measurement systems. **89d:93103**

Oshman, Yaakov (*with* Bar-Itzhack, I. Y.) Square root V-lambda filtering using normalized state estimates. **89k:93205**

Papantoni-Kazakos, P. *see* **Tsaknakis, Haralampos, 89j:93124**

Pardoux, É. (*with* Savona, C.) Piecewise linear filtering. **89c:93075**

— *see also* **Fleming, W. H.; et al., 89j:93116**

Pavon, Michele *see* **Gombani, Andrea, 89e:93195**

Peikari, Behrouz *see* **El-Sharkawy, Mohamed A.**, (Not in MR)

Perov, A. I. Adaptation of linear filtering systems. (Not in MR)

Picard, Jean An estimate of the error in time discretization of nonlinear filtering problems. **89c:93076**

— Nonlinear filtering and smoothing with high signal-to-noise ratio. **89g:93099**

Piccioni, M. *see* **Germani, A.; et al., 89c:93071** *and* **89j:93117**

Pontier, Monique (*with* Szpirglas, J.) Filtering with observations on a Riemannian symmetric space. **89e:93198**

— Approximation d'un filtre avec observation sur une variété compacte. [Approximation of a filter with observations on a compact manifold] **89k:93206**

Pugachev, V. S. (*with* Sinitsyn, I. N.; Shin, V. I.) Problems of the real time analysis and conditionally optimal filtering of processes in nonlinear stochastic systems. **89d:93104**

P'yanzin, S. A. *see* **Mil'shteĭn, G. N., 89h:93050**

Quadrat, J.-P. *see* **Blankenship, Gilmer L.; et al., 89j:93114**

Reneke, James A. (*with* Brannan, James R.) Application of RKH space methods to the filtering problem for linear hereditary systems. **89e:93199**

Roberts, A. P. (*with* Newmann, M. M.) Polynomial approach to Wiener filtering. **89a:93050**

— *see also* **Grimble, M. J., 89j:93119**

Runggaldier, Wolfgang J. *see* **Kushner, Harold J., 89j:93121** *and* **Di Masi, Giovanni B.**, **(89c:00031)**

Sangsuk-Iam, Suwanchai (*with* Bullock, Thomas E.) Analysis of continuous-time Kalman filtering under incorrect noise covariances. **89k:93207**

Savona, C. Approximate nonlinear filtering for piecewise linear systems. **89j:93122**

— *see also* **Pardoux, É., 89c:93075**

Schuss, Z. *see* **Steinberg, Y.; et al., 89j:93123**

Seinfeld, John H. *see* **Omatu, Sigeru, 89d:93103**

Seo, Jin H. (*with* Mazumdar, Ravi) On the innovations problem for a finite additive white noise approach to nonlinear filtering. **89a:93051**

Setterlund, Roy H. New insights into minimum-variance reduced-order filters. (Not in MR)

Shil'man, S. V. Limitingly optimal filtering: adaptive Kalman-Wiener filters. **89d:93105**

Shin, V. I. *see* **Pugachev, V. S.; et al., 89d:93104**

Silaev, A. I. A filter with regular covariations and the minmax principle in the problem of movement determination using measurements of pseudorandom informational fields. (Russian summary) **89e:93200**

Silverman, Leonard *see* **Kitapçi, Aysin; et al., 89a:93049**

Sims, Craig S. A class of reduced order filters designed for state dependent noise. (*see* **89c:00031**)

Sinitsyn, I. N. *see* **Pugachev, V. S.; et al., 89d:93104**

Sirisaengtaksin, O. *see* **Chandra, Jagdish; et al., 89g:93096**

Situ, Rong A nonlinear filtering problem and its applications. **89m:93083**

Steinberg, Y. (*with* Bobrovsky, B. Z.; Schuss, Z.) On the optimal filtering problem for the cubic sensor. **89j:93123**

Sugisaka, Masanori Chandrasekhar filtering and smoothing methods given covariance model and properties of X and Y functions. **89m:93084**

Szpirglas, J. *see* **Pontier, Monique, 89e:93198**

Tay, T. T. *see* **Moore, John Barratt, 89k:93204**

Thavaneswaran, A. (*with* Thompson, M. E.) A criterion for filtering in semimartingale models. **89h:93051**

Thompson, M. E. *see* **Thavaneswaran, A., 89h:93051**

Tsaknakis, Haralampos (*with* Papantoni-Kazakos, P.) Outlier resistant filtering and smoothing. **89j:93124**

Viano, Marie-Claude Itérations aléatoires et filtrage de Kalman. (English summary) [Random iterations and Kalman filtering] **89a:93052**

Wang, Jian Guo *see* **Deng, Zi Li, 89g:93097** *and* (Not in MR)

Wong, Wing Shing *see* **Hopkins, William E., Jr., 89c:93072**

Yan, I. *see* **Blankenship, Gilmer L.; et al., 89j:93114**

Zakai, Moshe *see* **Mayer-Wolf, E.; et al., 89c:93073** *and* **Bobrovsky, B. Z.; et al., 89m:93081**

Zeitouni, O. (*with* Dembo, A.) On the maximal achievable accuracy in nonlinear filtering problems. **89e:93201**

— (*with* Dembo, A.) An existence theorem and some properties of maximum a posteriori estimators of trajectories of diffusions. **89g:93100**

— *see also* **Mayer-Wolf, E.; et al., 89c:93073** *and* **Bobrovsky, B. Z.; et al., 89m:93081**

Zhang, Rong Xin A filtering method for nonlinear systems. (Chinese) (Not in MR)

(**Zuev, S. M.**) *see* **Balakrishnan, A. V., 89j:93113**

Items with secondary classifications in 93E11

Antonelli, P. L. (*with* Seymour, R. M.) Nonlinear filtering of myxomatosis based on hormonal control of flea reproduction by the rabbit. **89a:92016**

Balakrishnan, S. N. (*with* Speyer, Jason L.) Assumed density filter with application to homing missile guidance. **89k:93193**

Beumee, J. G. B. (*with* Rabitz, Herschel) On the use of filtering theory for the inversion of temporal chemical systems: mathematical formulation. **89e:93148**

Biemond, J. (*with* van der Putten, Frits G.; Woods, John W.) Identification and restoration of images with symmetric noncausal blurs. (Not in MR)

Bittanti, Sergio (*with* Colaneri, Patrizio; De Nicolao, Giuseppe) Two techniques for the solution of the discrete-time periodic Riccati equation. **89i:93022**

Boguslavskiĭ, I. A. A robust algorithm for recurrent filtering. (Not in MR)

Botto, Jean-Luc Numerical divergence of fast recursive least-squares transversal filters. (French summary) **89c:93084**

Brander, O. *see* **DeFacio, B., 89c:94009**

Brémaud, P. An averaging principle for filtering a jump process with point process observations. **89i:62157**

Catlin, Donald E. ★ Estimation, control, and the discrete Kalman filter. **89k:93001**

Chen, Guan Rong *see* **Chui, C. K., 89d:93093**

Ch'ên, Miao Shêng (*with* Li, Tsu T'ien) Performance improvement of optimal regulators incorporating Kalman filters. **89e:93086**

Christakos, George A simple approach to nonlinear estimation of physical systems. (*see* **89d:00007**)

Chui, C. K. (*with* Chen, Guan Rong) ★ Kalman filtering with real-time applications. **89d:93093**

Cohn, Stephen E. (*with* Dee, Dick P.) Observability of discretized partial differential equations. **89i:93012**

Colaneri, Patrizio *see* **Bittanti, Sergio; et al., 89i:93022**

Davis, M. H. A. Nonlinear filtering and stochastic flows. **89h:60067**

Dee, Dick P. *see* **Cohn, Stephen E., 89i:93012**

DeFacio, B. (*with* Brander, O.) Information, uncertainty and the singular value decomposition of the filtered Fourier transformation. **89c:94009**

De La Salle, S. *see* **Grimble, M. J.; et al., 89k:93090**

Delosme, Jean-Marc (*with* Morf, Martin) Covariance decompositions via elementary transformations. Applications to filtering. **89a:94005**

Dembo, A. *see* **Zeitouni, O., 89h:60068**

Demoment, G. *see* **Du, X. C.; et al., 89d:94020**

De Nicolao, Giuseppe *see* **Bittanti, Sergio; et al., 89i:93022**

Doncarli, C. *see* **Goerig, L.**, (**89c:00031**)

Doraiswami, R. On-line identification scheme using adaptive filters. **89e:93205**

Du, X. C. (*with* Saint-Félix, D.; Demoment, G.) Comparison between a factorization method and a partitioning method to derive invariant Kalman filters for fast image restoration. **89d:94020**

Duvaut, Patrick *see* **Picinbono, Bernard, 89c:94014**

Dyka, A. *see* **Ugowski, Henryk, 89k:94015**

Eweda, Eweda *see* **Macchi, Odile, 89g:93115**

Fomin, V. N. *see* **Petrov, O. A., 89j:93109**

Fragoso, Marcelo D. On a partially observable LQG problem for systems with Markovian jumping parameters. **89c:49023**

Fujisaki, Masatoshi Bellman equation with unbounded coefficients and its applications. **89g:49025**

Gibson, James S. *see* **Jabbari, Faryar**, (Not in MR)

Goerig, L. (*with* Doncarli, C.) Lissage-détection de signaux non stationnaires. (English summary) [Smoothing and detection of nonstationary signals] (*see* **89c:00031**)

Graupe, D. *see* **Moser, A. T.**, (Not in MR)

Grimble, M. J. (*with* De La Salle, S.; Ho, D.) Relationship between internal model control and LQG controller structures. **89k:93090**

Gusak, P. P. (*with* Sorkin, L. R.) Minimax function approximation by noisy observations under nonparametric uncertainty. (Russian summary) **89e:93207**

Hamanaka, Takashi *see* **Hinamoto, Takao; et al., 89d:93043**

Hammarling, S. The numerical solution of the general Gauss-Markov linear model. (*see* **89b:94004**)

Hara, Shinji (*with* Yamamoto, Yutaka; Omata, Tohru; Nakano, Michio) Repetitive control system: a new type servo system for periodic exogenous signals. **89d:93056**

Haussmann, U. G. (*with* Pardoux, É.) A conditionally almost linear filtering problem with non-Gaussian initial condition. **89d:60080**

Hazewinkel, M. A short tutorial on Lie algebras. **89k:17014**

Heunis, A. J. Nonlinear filtering of rare events with large signal-to-noise ratio. **89g:60149**

Hinamoto, Takao (*with* Hamanaka, Takashi; Maekawa, Sadao; Venetsanopoulos, Anastasios N.) Approximation and minimum roundoff noise synthesis of 3-D separable-denominator recursive digital filters. **89d:93043**

Ho, D. *see* **Grimble, M. J.; et al., 89k:93090**

Humbert, C. *see* **Mehdi, D., 89g:93092**

Jabbari, Faryar (*with* Gibson, James S.) Vector-channel lattice filters and identification of flexible structures. (Not in MR)

Janowitz, M. F. A model for ordinal filtering of digital images. **89b:94007**

Kailath, Thomas Signal processing applications of some moment problems. **89e:94001**

Kallianpur, G. (*with* Karandikar, Rajeeva L.) The filtering problem for infinite-dimensional stochastic processes. **89f:60045**

Karandikar, Rajeeva L. *see* **Kallianpur, G., 89f:60045**

Katayama, Tohru *see* **Tanaka, Masahiro, 89k:93218**

Kolosov, L. V. (*with* Suĭmenbaev, B. T.) Application of the Kalman filter to a problem of the identification of parameters of linear nonstationary systems. (Russian) **89j:93130**

Korbicz, Józef *see* **Zgurovskiĭ, M. Z.; et al.**, (Not in MR)

Kōrezlioğlu, Hayri Approximate filtering of random fields. (*see* **89c:00031**)

Kowalski, Aleksander (*with* Szynal, D.) On state estimation and control in discrete-time systems of linear type. **89k:93196**

Kurzhanskiĭ, A. B. On stochastic filtering approximations of estimation problems for systems with uncertainty. **89a:93047**

Kwon, W. H. (*with* Lee, Sang Jeong) LQG/LTR methods for linear systems with delay in state. **89d:34125**

Ladde, G. S. (*with* Sirisaengtaksin, O.) Near-optimum regulators for stochastic singularly perturbed systems. **89b:93117**

Lebedev, A. L. Duality of control problems, and filtering in linear time-dependent systems with delay. (Russian) **89j:49008**

Lee, Sang Jeong *see* **Kwon, W. H., 89d:34125**

Lee, T. Sen Theory and application of adaptive fading memory Kalman filters. **89b:93069**

Li, Si Fu A state space form of model algorithmic control and algorithm improvement. (Chinese. English summary) **89c:93069**

Li, Tsu T'ien *see* **Ch'ên, Miao Shêng, 89e:93086**

Macchi, Odile (*with* Eweda, Eweda) Compared speed and accuracy of the RLS and LMS algorithms with constant forgetting factors. **89g:93115**

Maekawa, Sadao *see* **Hinamoto, Takao; et al., 89d:93043**

Mallieu, D. *see* **Rousseaux, P.; et al.**, (Not in MR)

Mamedov, M. I. *see* **Zgurovskiĭ, M. Z.; et al., 89g:93103**

Mazziotto, G. (*with* Stettner, Ł.; Szpirglas, J.; Zabczyk, J.) On impulse control with partial observation. **89i:49009**

Mehdi, D. (*with* Humbert, C.) Simulation studies on sample convergence in parameter estimation of discrete time stochastic process with stochastic parameters. **89g:93092**

Morf, Martin *see* **Delosme, Jean-Marc, 89a:94005**

Moser, A. T. (*with* Graupe, D.) Applicability of Kalman filtering theory to identification of time series with nonstationary covariance structures. (Not in MR)

Nakano, Michio *see* **Hara, Shinji; et al., 89d:93056**

Nishikawa, Yoshikazu *see* **Shirazi, M. N.; et al., 89k:93199**

Novikov, A. N. *see* **Zgurovskiĭ, M. Z.; et al.**, (Not in MR)

Ocone, Daniel Application of Wiener space analysis to nonlinear filtering. **89d:60099**

— Stochastic calculus of variations for stochastic partial differential equations. **89i:60119**

— Probability densities for conditional statistics in the cubic sensor problem. **89h:60092**

Omata, Tohru *see* **Hara, Shinji; et al., 89d:93056**

Pardoux, É. *see* **Haussmann, U. G., 89d:60080**

Peng, Rong *see* **Rao, Bhaskar D., 89f:94002**

Petrov, O. A. (*with* Fomin, V. N.) Linear optimal estimation of nonstationary random processes and factorization of correlation operators. **89j:93109**

Piccioni, M. Convergence of implicit discretization schemes for linear differential equations with application to filtering. **89b:60141**

Picinbono, Bernard (*with* Duvaut, Patrick) Optimal linear-quadratic systems for detection and estimation. **89c:94014**

Podkorytov, S. N. Minimax filtering of signals formed by nonstationary filters. **89g:94011**

Pontier, Monique (*with* Szpirglas, J.) Uniqueness of the solutions of the filtering equation with observations on a Riemannian symmetric space. **89i:58158**

Pugachev, V. S. (*with* Sinitsyn, I. N.) ★ Stochastic differential systems. **89b:93003**

Pupeikis, Rimantas Design of an optimal digital correcting filter in the presence of additive noise. (Russian. English and Lithuanian summaries) **89d:93109**

van der Putten, Frits G. *see* **Biemond, J.; et al.**, (Not in MR)

Rabitz, Herschel *see* **Beumee, J. G. B., 89e:93148**

Rao, Bhaskar D. (*with* Peng, Rong) Tracking characteristics of the constrained IIR adaptive notch filter. **89f:94002**

Raol, J. R. (*with* Sinha, N. K.) Estimation of states and parameters of stochastic nonlinear systems with measurements corrupted by correlated noise. (Russian summary) **89e:93211**

Ray, Goshaidas On-line state and parameter estimation of multivariable systems based on transformed model. (Not in MR)

Ribbens-Pavella, M. *see* **Rousseaux, P.; et al.**, (Not in MR)

Rishel, Raymond Warren A nonlinear discrete time stochastic adaptive control problem. **89e:93227**

Rousseaux, P. (*with* Mallieu, D.; Van Cutsem, Th.; Ribbens-Pavella, M.) Dynamic state prediction and hierarchical filtering for power system state estimation. (Not in MR)

Saint-Félix, D. *see* **Du, X. C.; et al., 89d:94020**

Sannomiya, N. *see* **Shirazi, M. N.; et al., 89k:93199**

Sapegin, S. S. *see* **Zhigulev, V. N., 89e:68117**

Selin, A. N. *see* **Zgurovskiĭ, M. Z.; et al., 89g:93103**

Seymour, R. M. *see* **Antonelli, P. L., 89a:92016**

Shaĭkhet, L. E. On an optimal control problem of partly observable stochastic Volterra's process. (Russian summary) **89b:93122**

Shaked, U. *see* **Soroka, E., 89i:93107**

Shirazi, M. N. (*with* Sannomiya, N.; Nishikawa, Yoshikazu) Robust ε-contaminated Gaussian filtering of discrete-time linear systems. **89k:93199**

Sinha, N. K. *see* **Raol, J. R., 89e:93211**

Sinitsyn, I. N. *see* **Pugachev, V. S., 89b:93003**

(**Sinitsyna, I. V.**) *see* **Pugachev, V. S., 89b:93003**

Sirisaengtaksin, O. *see* **Ladde, G. S., 89b:93117**

Söderström, Torsten (*with* Stoica, Petre) On some system identification techniques for adaptive filtering. **89b:93111**

Sorkin, L. R. *see* **Gusak, P. P., 89e:93207**

Soroka, E. (*with* Shaked, U.) The properties of reduced-order minimum-variance filters for systems with partially perfect measurements. **89i:93107**

Speyer, Jason L. *see* **Balakrishnan, S. N., 89k:93193**

Stettner, Ł. *see* **Mazziotto, G.; et al., 89i:49009**

Stoica, Petre *see* **Söderström, Torsten, 89b:93111**

Suĭmenbaev, B. T. *see* **Kolosov, L. V., 89j:93130**

Szpirglas, J. *see* **Mazziotto, G.; et al., 89i:49009** *and* **Pontier, Monique, 89i:58158**

Szynal, D. *see* **Kowalski, Aleksander, 89k:93196**

Tanaka, Masahiro (*with* Katayama, Tohru) Robust fixed-lag smoother for linear systems including outliers in the system and observation noises. **89k:93218**

Tempo, R. Robust estimation and filtering in the presence of bounded noise. **89f:93043**

Thavaneswaran, A. (*with* Unny, T. E.) Algorithm for the exact likelihood of a counting process. **89d:93098**

Ugowski, Henryk (*with* Dyka, A.) On a certain discrete minimax problem in deconvolution-inverse filtering. **89k:94015**

Unny, T. E. *see* **Thavaneswaran, A., 89d:93098**

Van Cutsem, Th. *see* **Rousseaux, P.; et al.,** (Not in MR)

Van Dooren, Paul (*with* Verhaegen, M. H.) Condensed forms for efficient time-invariant Kalman filtering. **89b:65107**

Venetsanopoulos, Anastasios N. *see* **Hinamoto, Takao; et al., 89d:93043**

Verhaegen, M. H. *see* **Van Dooren, Paul, 89b:65107**

Woods, John W. *see* **Biemond, J.; et al.,** (Not in MR)

Yakovlev, V. P. Filtering of a signal at the output of an analogue-to-digital converter. (Not in MR)

Yamamoto, Yutaka *see* **Hara, Shinji; et al., 89d:93056**

Yin, Gang George *see* **Zhu, Yun Min, 89b:93125**

Zabczyk, J. *see* **Mazziotto, G.; et al., 89i:49009**

Zeitouni, O. (*with* Dembo, A.) Exact filters for the estimation of the number of transitions of finite-state continuous-time Markov processes. **89h:60068**

Zgurovskiĭ, M. Z. (*with* Selin, A. N.; Mamedov, M. I.) Estimation of the states and parameters of atmospheric processes with the use of a combined approach. **89g:93103**

— (*with* Korbicz, Józef; Novikov, A. N.) Identification of parameters of stochastic filtering processes. (Russian) (Not in MR)

Zhang, Qing A note on a nonlinear semigroup for controlled partially observed diffusions. **89g:93114**

Zhigulev, V. N. (*with* Sapegin, S. S.) Solution of frame reconstruction problem. **89e:68117**

Zhu, Yun Min (*with* Yin, Gang George) Adaptive filters with constraints and correlated nonstationary signals. **89b:93125**

93E12 System identification

Asfar, K. *see* **Moustafa, K. A.; et al., 89i:93114**

Baram, Yoram (*with* Porat, B.) Identification of minimal order state space models from stochastic input-output data. **89a:93053**

Barraud, A. (*with* Roche-Zamboni, I.) Identification multivariable en ligne: une approche paramétrique et structurale simultanée. (English summary) [On-line multivariate identification: a simultaneous parametric and structural approach] **89e:93202**

Bencsik, I. (*with* Michaletzky, György) Generalized least squares innovation representation. (*see* **89d:00007**)

Biemond, J. (*with* van der Putten, Frits G.; Woods, John W.) Identification and restoration of images with symmetric noncausal blurs. (Not in MR)

Billings, S. A. *see* **Chen, Sheng^2, 89k:93208**

Bukov, V. N. (*with* Khorvat, Ya.) A comparative analysis of some algorithms for the identification of parameters of a linear dynamic object. (Russian summary) **89i:93111**

Chen, Han Fu (*with* Guo, Lei) Robust identification of discrete-time stochastic systems. **89j:93125**

Chen, Hui Xin (*with* Ruan, Rong Yao) Strong consistency and convergence rate of extended least squares method. **89e:93203**

Chen, Sheng^2 (*with* Billings, S. A.) Recursive maximum likelihood identification of a nonlinear output-affine model. **89k:93208**

Chu, Xue Dao *see* **Jiang, Tao, 89k:93211**

Cobelli, Claudio (*with* Thomaseth, Karl) On optimality of the impulse input for linear system identification. **89g:93101**

Dasgupta, Soura Adaptive identification of systems with polynomial parameterizations. (Not in MR)

Deistler, Manfred Identifiability and causality in linear dynamic errors-in-variables systems. **89f:93041**

— (*with* Gevers, M.) Properties of the parametrization of monic ARMA systems. (Not in MR)

De Moor, Bart (*with* Vandewalle, Joos) The uncertainty principle of mathematical modelling. **89e:93204**

— (*with* Moonen, Marc; Vandenberghe, Lieven; Vandewalle, Joos) The application of the canonical correlation concept to the identification of linear state space models. (*see* **89c:00031**)

Doraiswami, R. On-line identification scheme using adaptive filters. **89e:93205**

Dries, F. *see* **Moustafa, K. A.; et al., 89i:93114**

Duncan, T. E. *see* **Mandl, Petr; et al., 89i:93113**

Eweda, Eweda (*with* Macchi, Odile) Convergence of the RLS and LMS adaptive filters. **89k:93209**

Fang, Ding Fa A new algorithm for parameter estimation for time-varying systems. (Chinese. English summary) **89j:93126**

Favier, G. Numerically efficient adaptive identification algorithms. (French summary) **89e:93206**

Feng, Chun Bo *see* **Liu, Bing, 89c:93078**

Filipović, Vojislav Ž. *see* **Kovačević, Branko D.,** (Not in MR)

Gao, Jian Guo *see* **Shao, Hui He; et al.,** (Not in MR)

Georgiev, Alexander A. On the identification of time-varying dynamic systems by nonparametric procedures. **89j:93127**

Gevers, M. *see* **Deistler, Manfred,** (Not in MR)

Gibson, James S. *see* **Jabbari, Faryar,** (Not in MR)

Granichin, O. N. A stochastic approximation algorithm with perturbation in the input for the identification of a static nonstationary discrete object. **89k:93210**

Graupe, D. *see* **Moser, A. T.,** (Not in MR)

Grossi Calleja, Rafael *see* **Vidal Castedo, Elvio; et al., 89k:93212**

Guo, Lei *see* **Chen, Han Fu, 89j:93125**

Gusak, P. P. (*with* Sorkin, L. R.) Minimax function approximation by noisy observations under nonparametric uncertainty. (Russian summary) **89e:93207**

Haber, R. Parametric identification of nonlinear dynamic systems based on nonlinear crosscorrelation functions. (Not in MR)

Hanzon, B. On a coordinate free prediction error algorithm for system identification. **89c:93077**

Hara, Kei (*with* Yamamoto, Tetsuhiko; Ougita, Kazuyuki) Parameter identification of distributed parameter systems using spline functions. **89a:93054**

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Heunis, A. J. Asymptotic properties of prediction error estimators in approximate system identification. **89j:93128**

Isaev, K. V. The formulation of stopping laws in parameter identification problems. (Russian) **89i:93112**

Jabbari, Faryar (*with* Gibson, James S.) Vector-channel lattice filters and identification of flexible structures. (Not in MR)

Jacobson, Sheldon H. (*with* Schruben, Lee W.) Optimization of stochastic dynamical systems in the frequency domain. (*see* **89c:00031**)

Jiang, Tao (*with* Chu, Xue Dao) A fast identification method for the SISO CARMA model. (Chinese. English summary) **89k:93211**

Junkins, John L. *see* **Mook, D. Joseph, 89m:93086**

Jurgelionis, Sagatas *see* **Nemura, Antanas; et al.,** (Not in MR)

Kalman, R. E. Identification of systems with noise. (Hungarian) **89b:93107**

Kaminskas, Vytautas (*with* Vitkutė, Daiva) Adaptive control of linear objects with internal feedback circuits. (Russian. English and Lithuanian summaries) (Not in MR)

Kang, G. T. *see* **Sugeno, M., 89i:93116**

Kel′mans, G. K. Identification of auto-regression plants subjected to moving average noise. (Polish summary) **89d:93106**

— Indirect adaptive noise-nonminimal-phase control of dynamic objects. (Russian. English summary) **89d:93107**

Kharin, Yu. S. *see* **Mel′nikova, E. N., 89h:93052**

Kher, Lov Kumar (*with* Sorooshian, Soroosh) A predictive demand model for systems planning, using noisy realization theory. **89j:93129**

Khorvat, Ya. *see* **Bukov, V. N., 89i:93111**

Kim, Jong In *see* **Li, Hyong Won,** (Not in MR)

Kolosov, L. V. (*with* Suĭmenbaev, B. T.) Application of the Kalman filter to a problem of the identification of parameters of linear nonstationary systems. (Russian) **89j:93130**

Kopysitskiĭ, T. I. (*with* Mekhtiev, A. A.; Pashaev, R. T.) A method for the correction of remainders. (Russian) (*see* **89b:00011**)

Korbicz, Józef *see* **Zgurovskiĭ, M. Z.; et al.,** (Not in MR)

Kovačević, Branko D. (*with* Filipović, Vojislav Ž.) Robust real-time identification of linear systems with correlated noise. (Not in MR)

Kozin, F. Structural parameter identification techniques. **89g:93102**

Kuntsevich, V. M. (*with* Lychak, M. M.; Nikitenko, A. S.) Active identification of the parameters of a linear static object (a game-theoretic problem of the design of an experiment). (Russian. English summary) **89e:93208**

Kutoyants, Yu. A. A problem of the identification of dynamical systems with small noise. **89m:93085**

Li, Hyong Won (*with* Kim, Jong In) Statistical optimization of the normal linear system under the action of non-Gaussian stochastic internal noise. (Korean. English summary) (Not in MR)

Liu, Bing (*with* Feng, Chun Bo) Piecewise identification for frequency characteristic of dynamic system. **89c:93078**

Liu, Xia Qi (*with* Wang, Zhi Zhong; Xu, Jun Rong) A recursive algorithm for error prediction in a general full structure model. (Chinese. English summary) **89j:93131**

Ljung, Lennart Frequency and time domain methods in system identification. **89c:93079**

Lychak, M. M. *see* **Kuntsevich, V. M.; et al., 89e:93208**

Macchi, Odile *see* **Eweda, Eweda, 89k:93209**

Mah, Richard S. H. *see* **Narasimhan, Shankar,** (Not in MR)

Mamedov, M. I. *see* **Zgurovskiĭ, M. Z.; et al., 89g:93103**

Mandl, Petr (*with* Duncan, T. E.; Pasik-Duncan, B.) On the consistency of a least squares identification procedure. **89i:93113**

Matuzonis, Arvydas Identification of linear objects in a closed loop with noise in the input and output observations. (Russian. English and Lithuanian summaries) (Not in MR)

Mekhtiev, A. A. *see* **Kopysitskiĭ, T. I.; et al., (89b:00011)**

Meleshko, V. I. (*with* Sekt, S. S.) Regularized estimates in problems with singular variance matrices. (Not in MR)

Mel′nikova, E. N. (*with* Kharin, Yu. S.) Classification of a series of multidimensional observations by the random length of the series. (Russian) **89h:93052**

Michaletzky, György *see* **Bencsik, I., (89d:00007)**

Milanese, M. (*with* Tempo, R.; Vicino, A.) Strongly optimal algorithms and optimal information in estimation problems. **89b:93108**

Millnert, Mille Identification of ARX models with Markovian parameters. **89a:93055**

Mook, D. Joseph (*with* Junkins, John L.) Minimum model error estimation for poorly modeled dynamic systems. **89m:93086**

Moonen, Marc *see* **De Moor, Bart; et al., (89c:00031)**

Moore, John Barratt Convergence of continuous time stochastic ELS parameter estimation. **89h:93053**

— *see also* **Xia, Lige, 89k:93216**

Moser, A. T. (*with* Graupe, D.) Applicability of Kalman filtering theory to identification of time series with nonstationary covariance structures. (Not in MR)

Moustafa, K. A. (*with* Asfar, K.; Dries, F.) Modelling and identification of offshore towers with general damping. **89i:93114**

Nakamori, Seiichi New identification technique of linear stochastic systems by covariance information. (French summary) **89d:93108**

Nakano, Kazushi (*with* Sagara, Setsuo) Optimal scanning measurement problem for a stochastic distributed-parameter system. (Not in MR)

Narasimhan, Shankar (*with* Mah, Richard S. H.) Generalized likelihood ratios for gross identification in dynamic processes. (Not in MR)

Navrodskiĭ, V. A. An approach to the design of an experiment in problems of the identification of the parameters of dynamical systems. (Russian) **89e:93209**

Nemura, Antanas (*with* Sakalauskas, Eligijus; Jurgelionis, Sagatas) Local-parametric approximation for the identification and control of multidimensional Hammerstein systems. (Russian. English and Lithuanian summaries) (Not in MR)

Niedźwiecki, Maciej Functional series modeling approach to identification of nonstationary stochastic systems. **89j:93132**

Nikitenko, A. S. *see* **Kuntsevich, V. M.; et al., 89e:93208**
Norton, J. P. ★ An introduction to identification. **89e:93210**
Novikov, A. N. *see* **Zgurovskiĭ, M. Z.; et al.**, (Not in MR)
Obruchev, V. L. *see* **Salyga, V. I.; et al., 89b:93110**
Ougita, Kazuyuki *see* **Hara, Kei; et al., 89a:93054**
Pashaev, R. T. *see* **Kopysitskiĭ, T. I.; et al.**, (**89b:00011**)
Pasik-Duncan, B. *see* **Mandl, Petr; et al., 89i:93113**
Pavlov, N. D. A Bayesian method of parameter identification and prediction of states of linear stationary dynamical systems. **89i:93115**
Perán González, José R. *see* **Vidal Castedo, Elvio; et al., 89k:93212**
Porat, B. *see* **Baram, Yoram, 89a:93053**
Pupeikis, Rimantas Design of an optimal digital correcting filter in the presence of additive noise. (Russian. English and Lithuanian summaries) **89d:93109**
van der Putten, Frits G. *see* **Biemond, J.; et al.**, (Not in MR)
Rafajłowicz, Ewaryst Sequential identification algorithm and controller choice for a certain class of distributed systems. **89b:93109**
Raol, J. R. (*with* Sinha, N. K.) Estimation of states and parameters of stochastic nonlinear systems with measurements corrupted by correlated noise. (Russian summary) **89e:93211**
Roche-Zamboni, I. *see* **Barraud, A., 89e:93202**
Rozenvasser, E. N. On the construction of a Fischer matrix for the problem of the estimation of parameters of finite-dimensional systems. **89c:93080**
Ruan, Rong Yao *see* **Chen, Hui Xin, 89e:93203**
Rudenko, O. G. *see* **Salyga, V. I.; et al., 89b:93110**
Sagara, Setsuo *see* **Nakano, Kazushi**, (Not in MR)
Sakalauskas, Eligijus *see* **Nemura, Antanas; et al.**, (Not in MR)
Salyga, V. I. (*with* Rudenko, O. G.; Obruchev, V. L.) Reduced multistep algorithms for identification of linear plants. (Russian summary) **89b:93110**
Sarkar, Tapan K. *see* **Sircar, Pradip**, (Not in MR)
Schruben, Lee W. *see* **Jacobson, Sheldon H.**, (**89c:00031**)
Sekt, S. S. *see* **Meleshko, V. I.**, (Not in MR)
Selin, A. N. *see* **Zgurovskiĭ, M. Z.; et al., 89g:93103**
Shao, Hui He (*with* Yu, An Ran; Gao, Jian Guo) Minimum time control of a polymerization reactor for epoxy resin. (Chinese) (Not in MR)
Sibiryakov, V. P. A quasioptimal estimate for the state vector of a dynamical system under non-Markov perturbations. (Russian) (*see* **89c:00019**)
Sinha, N. K. *see* **Raol, J. R., 89e:93211**
Sircar, Pradip (*with* Sarkar, Tapan K.) System identification from nonuniformly spaced signal measurements. (French and German summaries) (Not in MR)
Söderström, Torsten (*with* Stoica, Petre) On some system identification techniques for adaptive filtering. **89b:93111**
Sonnevend, Gy. Sequential and stable methods for the solution of mass recovery problems (estimation of the spectrum and of the impedance function). **89f:93042**
Sorkin, L. R. *see* **Gusak, P. P., 89e:93207**
Sorooshian, Soroosh *see* **Kher, Lov Kumar, 89j:93129**
Stoica, Petre *see* **Söderström, Torsten, 89b:93111**
Sugeno, M. (*with* Kang, G. T.) Structure identification of fuzzy model. **89i:93116**
Suĭmenbaev, B. T. *see* **Kolosov, L. V., 89j:93130**
Tempo, R. Robust estimation and filtering in the presence of bounded noise. **89f:93043**
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— *see also* **Milanese, M.; et al., 89b:93108**
Thomaseth, Karl *see* **Cobelli, Claudio, 89g:93101**
Tsema, M. I. A method for the isolation of a given exponential component from the sum of exponential signals. (Russian. English summary) (Not in MR)
Vandenberghe, Lieven *see* **De Moor, Bart; et al.**, (**89c:00031**)
Vandewalle, Joos *see* **De Moor, Bart, 89e:93204** *and* (**89c:00031**)
Vicino, A. *see* **Milanese, M.; et al., 89b:93108**
Vidal Castedo, Elvio (*with* Perán González, José R.; Grossi Calleja, Rafael) Recursive estimation and delay processes subject to important stochastic perturbations. (Spanish) **89k:93212**
Vitkutė, Daiva *see* **Kaminskas, Vytautas**, (Not in MR)
Vladimirova, A. I. The method of perturbations of linear operators in problems of state estimation. (Russian) **89k:93213**
Volkov, I. K. ★ Задачи идентификации математических моделей эволюционных процессов на конечных выборках экспериментальных данных. (Russian) [Problems of identification of mathematical models of evolutionary processes on finite samplings of experimental data] **89k:93214**
Wang, Zhi Zhong *see* **Liu, Xia Qi; et al., 89j:93131**
Wasilkowski, G. W. *see* **Tempo, R.**, (Not in MR)
Watanabe, Atsushi The Volterra series expansion of functionals defined on the finite-dimensional vector space and its application to saving of computational effort for Volterra kernels. **89k:93215**
Wedig, W. Parameter identification of road spectra and nonlinear oscillators. **89i:93117**
Willems, J. C. From time series to linear system. I. Finite-dimensional linear time invariant systems. **89b:93112**
— From time series to linear system. II. Exact modelling. **89b:93113**
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Woods, John W. *see* **Biemond, J.; et al.**, (Not in MR)
Xia, Lige (*with* Moore, John Barratt) Recursive identification of overparametrized systems. **89k:93216**
Xu, Jun Rong *see* **Liu, Xia Qi; et al., 89j:93131**
Yamamoto, Tetsuhiko *see* **Hara, Kei; et al., 89a:93054**
Yu, An Ran *see* **Shao, Hui He; et al.**, (Not in MR)
Zelyk, Ya. I. Computational expenditure in recurrent algorithms for current identification. (Russian) (*see* **89f:93002**)
Zgurovskiĭ, M. Z. (*with* Selin, A. N.; Mamedov, M. I.) Estimation of the states and parameters of atmospheric processes with the use of a combined approach. **89g:93103**
— (*with* Korbicz, Józef; Novikov, A. N.) Identification of parameters of stochastic filtering processes. (Russian) (Not in MR)
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Zhang, Zhi Yong The whitening residual error technique to determine the structure of vector difference equations. (Chinese. English summary) (Not in MR)

Items with secondary classifications in 93E12

Ahmed, N. U. ★ Optimization and identification of systems governed by evolution equations on Banach space. **89m:93021**
Aihara, S.-I. (*with* Sunahara, Y.) Identification of an infinite-dimensional parameter for stochastic diffusion equations. **89i:93103**
Baltrūnas, Jonas (*with* Nakutis, Evaldas; Šležas, Vincas) Identification of nonlinear stochastic autoregressive-moving average processes in a class of parametric models. (Russian. Lithuanian summary) **89c:62148**
Billings, S. A. *see* **Korenberg, M. J.; et al., 89e:93184**
Bodyanskiĭ, E. V. Design of multidimensional pseudodual adaptive controllers. (Russian. English summary) **89e:93084**
— Design of a dual adaptive extremal controller. (Russian. English summary) **89g:93107**
Brusin, V. A. (*with* Maksimov, Yu. M.) Investigation of a class of robust algorithms for the identification of models of "input-output" dynamical systems. (Russian) **89g:93032**
Bukhalev, V. A. (*with* Efimov, E. V.; Kazakov, I. E.) Complex processing of information from gauges and indicators in dynamical systems with conditionally Markov structure. **89c:94016**
Carotenuto, L. (*with* Muraca, P.; Raiconi, G.) Optimal location of a moving sensor for the estimation of a distributed-parameter process. **89d:93116**
Clement, Thierry (*with* Gentil, Sylviane) Reformulation of parameter identification with unknown-but-bounded errors. (Not in MR)
Dąbrowski, Jacek Estimators of functions in some difference equations. **89m:39004**
Damen, A. A. H. *see* **Janssen, Peter H. M., 89e:93066**
Deistler, Manfred *see* **Hannan, E. J., 89m:60085**
Efimov, E. V. *see* **Bukhalev, V. A.; et al., 89c:94016**
Fisher, D. Grant *see* **Sripada, N. Rao, 89a:93048**
Friedlander, B. *see* **Stoica, Petre; et al., 89b:93102**
Gawronski, Wlodzimierz (*with* Natke, H. G.) Order estimation of AR and ARMA models. **89e:93132**
Gentil, Sylviane *see* **Clement, Thierry**, (Not in MR)
Hannan, E. J. (*with* Deistler, Manfred) ★ The statistical theory of linear systems. **89m:60085**
Hazewinkel, M. Lie algebraic methods in filtering and identification. **89g:93098a**
— Lectures on linear and nonlinear filtering. **89f:93039**
— Lie algebraic method in filtering and identification. **89g:93098b**
Janiszowski, K. *see* **Kortmann, M.; et al.**, (Not in MR)
Janssen, Peter H. M. (*with* Damen, A. A. H.) Comments on: "MFD models and time delays; some consequences for identification" [Internat. J. Control **45** (1987), no. 4, 1179–1196; MR 88f:93107] by Janssen. **89e:93066**
Kazakov, I. E. *see* **Bukhalev, V. A.; et al., 89c:94016**
Kliokys, Edvardas Optimal filtering in systems with random structure and discrete time. (Russian. English summary) **89e:93197**
Kopeĭkin, S. V. *see* **Kurochkin, E. P.; et al., 89c:94018**
Korenberg, M. J. (*with* Billings, S. A.; Liu, Yan Ping; McIlroy, P. J.) Orthogonal parameter estimation algorithm for nonlinear stochastic systems. **89e:93184**
Kortmann, M. (*with* Janiszowski, K.; Unbehauen, H.) Application and comparison of different identification schemes under industrial conditions. (Not in MR)
Kulik, A. S. *see* **Salyga, V. I.; et al., 89m:90078**
Kurochkin, E. P. (*with* Muminov, N. A.; Kopeĭkin, S. V.) ★ Адаптивные методы обработки измерительной информации. (Russian) [Adaptive methods for processing of measuring information] **89c:94018**
Levoshich, O. L. Minimax estimation of the solutions of linear algebraic equations by the entropy criterion. (Russian) **89k:93197**
Liu, Xiao Song (*with* Yang, Zhi Chao) A linear estimation method for ARMA parameters. (Chinese. English summary) **89k:62083**
Liu, Yan Ping *see* **Korenberg, M. J.; et al., 89e:93184**
Lu, Yuan Zhang *see* **Xiong, Yu Fei, 89f:62084**
Ma, Xiao Jiang (*with* Yuan, Jing Xia) Nonparametric identification of nonlinear systems. (Chinese. English summary) **89m:93023**
Maksimov, Yu. M. *see* **Brusin, V. A., 89g:93032**
Malebranche, H. Simultaneous state and parameter estimation and location of sensors for distributed systems. **89i:93110**
McIlroy, P. J. *see* **Korenberg, M. J.; et al., 89e:93184**
Muminov, N. A. *see* **Kurochkin, E. P.; et al., 89c:94018**
Muraca, P. *see* **Carotenuto, L.; et al., 89d:93116**
Nakutis, Evaldas *see* **Baltrūnas, Jonas; et al., 89c:62148**
Natke, H. G. *see* **Gawronski, Wlodzimierz, 89e:93132**
Niu, Shao Hua (*with* Xiao, De Yun) A recursive algorithm for parameter estimation and order identification of SISO models. (Chinese. English summary) **89j:93107**
Obruchev, V. L. *see* **Salyga, V. I.; et al., 89m:90078**
Osipov, Yu. S. Problems of dynamical reconstruction. (Russian) **89e:93187**
Pickett, E. E. *see* **Whiting, R. G.**, (Not in MR)
Raiconi, G. *see* **Carotenuto, L.; et al., 89d:93116**
Salyga, V. I. (*with* Sirodzha, I. B.; Kulik, A. S.; Obruchev, V. L.) Synthesis of fault-tolerant dynamic control systems with fault identification. (Russian summary) **89m:90078**
Shil′man, S. V. Limitingly optimal filtering: adaptive Kalman-Wiener filters. **89d:93105**
Sirodzha, I. B. *see* **Salyga, V. I.; et al., 89m:90078**
Šležas, Vincas *see* **Baltrūnas, Jonas; et al., 89c:62148**
Söderström, Torsten *see* **Stoica, Petre; et al., 89b:93102**
Sripada, N. Rao (*with* Fisher, D. Grant) Improved least squares identification. **89a:93048**
Stoica, Petre (*with* Friedlander, B.; Söderström, Torsten) Instrumental variable methods for ARMA models. **89b:93102**
Sunahara, Y. *see* **Aihara, S.-I., 89i:93103**
Terdik, G. Generalized Hermite polynomials and estimation of kernels for discrete I/O Wiener models. (Russian summary) **89d:93097**

Unbehauen, H. *see* **Kortmann, M.; et al.**, (Not in MR)

Verhaegen, M. H. Robust adaptive flight-path reconstruction technique for nonsteady longitudinal flight test maneuvers. (Not in MR)

Verriest, Erik A unified theory of model reduction via Gleason measures. **89c:93020**

Wang, Ding Wei A method of identification of efficiency curves of multi-fuel boilers. (Chinese. English summary) (Not in MR)

Whiting, R. G. (*with* Pickett, E. E.) On model order estimation for partially observed Markov chains. (Not in MR)

Xiao, De Yun *see* **Niu, Shao Hua, 89j:93107**

Xiong, Yu Fei (*with* Lu, Yuan Zhang) Structure identification and parameter estimation of multivariate ARMAX. (Chinese. English summary) **89f:62084**

Yang, Zhi Chao *see* **Liu, Xiao Song, 89k:62083**

Yuan, Jing Xia *see* **Ma, Xiao Jiang, 89m:93023**

93E14 Data smoothing

Ali, S. M. (*with* Burge, R. E.) New automatic techniques for smoothing and segmenting SAR images. (French and German summaries) (Not in MR)

Badawi, Faris A. (*with* Lindquist, Anders) A stochastic realization approach to the discrete-time Mayne-Fraser smoothing formula. **89d:93110**

Brockett, R. W. (*with* Cebuhar, W. A.) Smoothing and linearization of discontinuous control systems. **89k:93217**

Burge, R. E. *see* **Ali, S. M.**, (Not in MR)

Cebuhar, W. A. *see* **Brockett, R. W., 89k:93217**

Doncarli, C. *see* **Goerig, L., (89c:00031)**

Goerig, L. (*with* Doncarli, C.) Lissage-détection de signaux non stationnaires. (English summary) [Smoothing and detection of nonstationary signals] (*see* **89c:00031**)

Katayama, Tohru *see* **Tanaka, Masahiro, 89k:93218**

Körezlioğlu, Hayri Approximate filtering of random fields. (*see* **89c:00031**)

Lindquist, Anders *see* **Badawi, Faris A., 89d:93110**

Osborne, M. R. *see* **Prvan, Tania, 89f:93044**

Prvan, Tania (*with* Osborne, M. R.) A square-root fixed-interval discrete-time smoother. **89f:93044**

Tanaka, Masahiro (*with* Katayama, Tohru) Robust fixed-lag smoother for linear systems including outliers in the system and observation noises. **89k:93218**

Tzafestas, Spyros G. *see* **Watanabe, Keigo, 89g:93104**

Watanabe, Keigo (*with* Tzafestas, Spyros G.) Discrete-time forward-pass smoothers in distributed-sensor networks. **89g:93104**

Items with secondary classifications in 93E14

Boĭchuk, L. M. Invariant filtering of discrete processes. (Not in MR)

Bovik, Alan Conrad *see* **Longbotham, Harold Gene, 89k:93203**

Dumont, Randall S. Asymptotic statistical properties of chaotic power spectra. **89b:58130**

Elsayed, A. (*with* Shaked, U.; Grimble, M. J.) Application of spectral factorization to the linear discrete-time fixed-point smoothing problem. (Not in MR)

Grimble, M. J. *see* **Elsayed, A.; et al.**, (Not in MR)

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Kalaba, Robert E. (*with* Tesfatsion, Leigh) Exact sequential filtering, smoothing and prediction for nonlinear systems. **89j:93105**

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Omatu, Sigeru Optimal estimation theory for distributed parameter systems. **89f:93040**

Osborne, M. R. (*with* Prvan, Tania) Smoothness and conditioning in generalised smoothing spline calculations. **89h:65023**

Ougita, Kazuyuki *see* **Hara, Kei; et al., 89a:93054**

Papantoni-Kazakos, P. *see* **Tsaknakis, Haralampos, 89j:93124**

Picard, Jean Nonlinear filtering and smoothing with high signal-to-noise ratio. **89g:93099**

Poor, H. Vincent *see* **Verdú, Sergio, 89f:90181**

Prvan, Tania *see* **Osborne, M. R., 89h:65023**

Segal, Mordechai (*with* Weinstein, Ehud) A new method of evaluating the log-likelihood gradient (score) of linear dynamic systems. **89d:93095**

Shaked, U. *see* **Elsayed, A.; et al.**, (Not in MR)

Sugisaka, Masanori Chandrasekhar filtering and smoothing methods given covariance model and properties of X and Y functions. **89m:93084**

Tesfatsion, Leigh *see* **Kalaba, Robert E., 89j:93105**

Tsaknakis, Haralampos (*with* Papantoni-Kazakos, P.) Outlier resistant filtering and smoothing. **89j:93124**

Verdú, Sergio (*with* Poor, H. Vincent) Abstract dynamic programming models under commutativity conditions. **89f:90181**

Wang, Xin A noise smoothing method using image estimation. (Chinese. English summary) (Not in MR)

Weinstein, Ehud *see* **Segal, Mordechai, 89d:93095**

Yamamoto, Tetsuhiko *see* **Hara, Kei; et al., 89a:93054**

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93E15 Stochastic stability

Ahmadi, Goodarz Almost-sure stability of a class of distributed parameter systems subjected to random excitations. **89i:93118**

Ariaratnam, S. T. (*with* Xie, W.-C.) Effect of derivative process on the almost-sure asymptotic stability of second-order linear stochastic systems. **89m:93087**

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Korenevskiĭ, D. G. A coefficient criterion for the absolute (with respect to nonlinearity) mean-square stability of stochastic automatic control systems with nonlinear feedback. (Russian) **89j:93134**

Levit, M. V. Analysis of the stability of linear systems with parametric random perturbation on the basis of estimates of second moments. (Russian) (*see* **89g:00008**)

Mariton, M. Averaged dynamics and pole assignment for a class of stochastic systems. **89k:93220**

Maslowski, Bohdan On a certain type of stability of nontrivial solutions of stochastic differential equations. **89i:93121**

Matkowsky, B. J. *see* **Kłosek-Dygas, M. M.; et al., 89i:93120**

Matveev, An. A. Investigation of the stability of the solutions of second-order linear differential equations under small random perturbations. (Russian) **89e:93212**

Mayster, Penka Stabilité des solutions des équations différentielles perturbées par impulsions stochastiques. [Stability of the solutions of differential equations perturbed by stochastic impulses] (Not in MR)

Mikhaĭlov, V. A. Geometric analysis of the stability of Markov chains in $\mathbf{R}^n_+$ and its application to the calculation of the capacity of an adaptive random multiple access algorithm. **89e:93213**

Nguyễn Dbarình Công A criterion for the stochastic stability of the highest Lyapunov exponent. **89e:93214**

Pakshin, P. V. An algebraic criterion for the absolute stochastic stability of nonlinear discrete systems with multiplicative white noise. **89f:93045**

— *see also* **Zelentsovskiĭ, A. L., 89d:93113**

Rego, Vernon *see* **Szpankowski, Wojciech, 89k:93221**

Sasagawa, T. ★ On the asymptotic stability of stochastic linear functional-differential systems. **89g:93105**

Schuss, Z. *see* **Kłosek-Dygas, M. M.; et al., 89i:93120**

Sverdan, M. L. (*with* Yasinskaya, L. I.) Exponential stability of stochastic functional-differential equations under constantly acting random perturbations. (Russian. English summary) **89e:93215**

Szpankowski, Wojciech (*with* Rego, Vernon) Some theorems on instability with applications to multiaccess protocols. **89k:93221**

Wedig, W. Stability of parametric systems. **89j:93135**

Xie, W.-C. *see* **Ariaratnam, S. T., 89m:93087**

Yanson, V. A. *see* **Ionin, L. L., 89k:93219**

Yasinskaya, L. I. *see* **Sverdan, M. L., 89e:93215**

Yaz, Engin Dynamic feedback control of stochastic-parameter systems. (Not in MR)

— Feedback controllers for stochastic-parameter systems: relations among various stabilizability conditions. **89j:93136**

Zelentsovskiĭ, A. L. (*with* Pakshin, P. V.) Absolute stochastic $2p$-stability of nonlinear automatic control systems. **89d:93113**

Items with secondary classifications in 93E15

Bayoumi, M. M. *see* **Mo, Li, 89k:93106**

Bougerol, Philippe Tightness of products of random matrices and stability of linear stochastic systems. **89a:60028**

Ch'ên, Po Hsien (*with* Kuo, Chih Tsung) Multivariable control design for stochastic systems with saturated driving: LQG optimal approach. **89a:93026**

Halanay, Aristide Periodic and almost periodic solutions to affine stochastic systems. **89f:34085**

Hopkins, William E., Jr. Optimal stabilization of families of linear stochastic differential equations with jump coefficients and multiplicative noise. **89d:93080**

Kliemann, W. Analysis of nonlinear stochastic systems. **89j:60075**

de Koning, W. L. *see* **Wagenaar, T. J. A.**, (Not in MR)

Korchanov, V. M. *see* **Vereme**ĭ**, E. I., 89m:93070**

Korenevskiĭ, D. G. (*with* Mitropol′skiĭ, Yu. A.) Matrix algebraic criteria and sufficient conditions for the asymptotic stability and boundedness with probability one of the solutions of linear singularly perturbed stochastic Itô equations. **89b:34138**

Kubrusly, C. S. On the existence, evolution, and stability of infinite-dimensional stochastic discrete bilinear models. **89a:93030**

Kuo, Chih Tsung *see* **Ch'ên, Po Hsien, 89a:93026**

Lapeyre, B. Majoration a priori des solutions d'équations différentielles stochastiques stables. [A priori upper bounds of solutions of stable stochastic differential equations] **89i:60127**

Litvinov, V. V. Operation of a device for searching for a pseudorandom sequence with respect to delay under complex noise. (Russian. English summary) (Not in MR)

Mariton, M. Jump linear quadratic control with random state discontinuities. **89b:93119**

Martynyuk, A. A. A stochastic matrix Lyapunov function and its application. **89c:34062**

Maslowski, Bohdan Weak stability of a certain class of Markov processes and applications to nonsingular stochastic differential equations. **89i:60149**

Mitropol′skiĭ, Yu. A. *see* **Korenevskiĭ, D. G., 89b:34138**

Mo, Li (*with* Bayoumi, M. M.) A novel approach to the explicit pole assignment self-tuning controller design. **89k:93106**

Navrodskiĭ, V. A. An approach to the design of an experiment in problems of the identification of the parameters of dynamical systems. (Russian) **89e:93209**

Pardoux, É. Wide band limit of Lyapounov exponents. **89c:60069**

Ugrinovskiĭ, V. A. A stochastic analogue of the frequency theorem. (Russian) **89d:15004**

Veremeĭ**, E. I.** (*with* Korchanov, V. M.) Multi-objective stabilization of dynamical systems of a certain class. **89m:93070**

Wagenaar, T. J. A. (*with* de Koning, W. L.) Stability and stabilizability of chemical reactors

modelled with stochastic parameters. (Not in MR)
Zidăroiu, Corneliu Differential stability for random decision systems with complete connections. **89h:90253**

93E20 Optimal stochastic control

Ahmed, N. U. Abstract stochastic evolution equations and related control and stability problems. **89g:93106**
Aicardi, M. (*with* Davoli, F.; Minciardi, R.) Correction to: "Decentralized optimal control of Markov chains with a common past information set" [IEEE Trans. Automat. Control **32** (1987), no. 11, 1028–1031]. (Not in MR)
Akian, Marianne Résolution numérique d'équations d'Hamilton-Jacobi-Bellman au moyen d'algorithmes multigrilles et d'itérations sur les politiques. (English summary) [Numerical solution of Hamilton-Jacobi-Bellman equations by means of multigrid algorithms and policy iterations] **89i:93122**
Asaubaev, K. Sh. *see* **Popkov, Yu. S.; et al., 89e:93226**
Ashimov, A. A. *see* **Popkov, Yu. S.; et al., 89e:93226**
Balabushkin, A. N. (*with* Gul′ko, F. B.) Prediction of the extreme values of the phase coordinates of stochastic systems. **89e:93216**
Baldursson, Friđik Már Singular stochastic control and optimal stopping. **89d:93114**
Bao, Yuan L. *see* **Shieh, L. S.; et al., 89k:93231**
Baranov, V. V. (*with* Podtsykin, N. S.; Kharybin, N. I.) Optimal decision methods in controllable Markov systems with a nonobservable state. (Russian) **89d:93115**
Baras, J. S. (*with* Elliott, Robert J.; Kohlmann, Michael) The conditional adjoint process. **89k:93222**
Başar, Tamer Solutions to a class of nonstandard stochastic control problems with active learning. **89j:93137**
— *see also* **Saksena, Vikram R., 89i:93125**
Beneš, V. E. Using Hopf-Cole, gauge, and Girsanov transformations to reduce stochastic control problems to Gaussian integrations. **89c:93081**
— (*with* Rishel, Raymond Warren) Optimality of "full bang to reduce predicted miss" for some partially observed stochastic control problems. **89e:93217**
Bodner, V. A. (*with* Rodnishchev, N. E.; Yurikov, E. P.) On the optimization of systems with a random jump structure. (Russian. English summary) **89j:93138**
Bodyanskiĭ, E. V. Design of a dual adaptive extremal controller. (Russian. English summary) **89g:93107**
Borkar, V. S. Control of Markov chains with long-run average cost criterion. **89e:93218**
— The probabilistic structure of controlled diffusion processes. **89g:93108a**
— Errata: "The probabilistic structure of controlled diffusion processes". **89g:93108b**
— (*with* Ghosh, Mrinal K.) Ergodic control of multidimensional diffusions. I. The existence results. **89h:93054**
Carotenuto, L. (*with* Muraca, P.; Raiconi, G.) Optimal location of a moving sensor for the estimation of a distributed-parameter process. **89d:93116**
Chang, Fan Jên *see* **Shieh, L. S.; et al., 89k:93231**
Chitashvili, R. Ya. (*with* Mania, M. G.) On optimal controls in the problem of locally absolutely continuous change of measure (compact sets of decisions). **89a:93056**
Chizeck, Howard J. *see* **Ji, Yuandong, 89g:93111** *and* **89k:93224**
Cutland, Nigel J. Nonstandard techniques in stochastic optimal control theory. **89e:93219**
Davoli, F. *see* **Aicardi, M.; et al.**, (Not in MR)
van Dijk, Nico M. On the finite horizon Bellman equation for controlled Markov jump models with unbounded characteristics: existence and approximation. **89j:93139**
Duncan, T. E. A solvable stochastic control problem in spheres. **89f:93046**
Èĭdel′man, S. D. *see* **Rozorinov, G. N., 89a:93059**
El Karoui, Nicole (*with* Jeanblanc-Picqué, Monique) Contrôle de processus de Markov. [Control of Markov processes] **89m:93089**
Elliott, David L. *see* **Zhang, Weijian, 89k:93234**
Elliott, Robert J. An approximate minimum principle for a partially observed Markov chain. **89d:93117**
— *see also* **Baras, J. S.; et al., 89k:93222**
Elosmani, Mohammed Étude d'un problème de contrôle stochastique ergodique. (English summary) [Study of an ergodic stochastic control problem] **89m:93090**
Fleming, W. H. ★ Controlled Markov processes and viscosity solution of nonlinear evolution equations. **89e:93220**
— (*with* Vermes, Domokos) Generalized solutions in the optimal control of diffusions. **89k:93223**
Fowler, Thomas B. Application of stochastic control techniques to chaotic nonlinear systems. **89j:93140**
Geromel, J. C. (*with* Silva Filho, O. S.) Partial closed-loop control structure for linear stochastic systems. (Not in MR)
Gessing, Ryszard Optimal control laws for a two-level linear quadratic problem. **89g:93109**
Ghosh, Mrinal K. *see* **Borkar, V. S., 89h:93054**
Grecksch, W. ε-optimale Steuerung einer linearen parabolischen Ito-Gleichung. [ε-optimal control of a linear parabolic Itô equation] **89b:93115**
Grimble, M. J. *see* **Šebek, M.; et al., 89e:93228**
Gul′ko, F. B. *see* **Balabushkin, A. N., 89e:93216**
Hang, C. C. *see* **Lim, Cheng-Chew; et al., 89k:93228**
Haussmann, U. G. Examples of optimal controls for linear stochastic control systems with partial observation. **89a:93057**
Ho, Yu-Chi (*with* Li, Shu) Extensions of infinitesimal perturbation analysis. **89b:93116**
Hunt, K. J. General polynomial solution to the optimal feedback/feedforward stochastic tracking problem. **89g:93110**
— A single-degree-of-freedom polynomial solution to the optimal feedback/feedforward stochastic tracking problem. **89e:93221**
— *see also* **Šebek, M.; et al., 89e:93228**
Jeanblanc-Picqué, Monique *see* **El Karoui, Nicole, 89m:93089**
Ji, Yuandong (*with* Chizeck, Howard J.) Controllability, observability and discrete-time Markovian jump linear quadratic control. **89g:93111**
— (*with* Chizeck, Howard J.) Optimal quadratic control of jump linear systems with separately controlled transition probabilities. **89k:93224**
Jin, Zhi Ming Multiobjective optimal stopping and constrained optimal stopping. (Chinese) (Not in MR)
Karatzas, Ioannis Stochastic control under finite-fuel constraints. **89d:93118**
Karlov, V. I. (*with* Krasil′shchikov, M. N.) Optimization of the measurement process in dynamic systems for different optimality criteria. **89e:93222**
Kas′yanyuk, V. S. Optimal control from data affected by noise. (Russian) **89j:93141**
Kazakov, I. E. Synthesis of a conditionally optimal control according to a local criterion in a nonlinear stochastic system. **89e:93223**
Kharybin, N. I. *see* **Baranov, V. V.; et al., 89d:93115**
Kohlmann, Michael *see* **Baras, J. S.; et al., 89k:93222**
Kolmanovskiĭ, V. B. (*with* Shaĭkhet, L. E.) Optimal control of stochastic systems with aftereffect and unknown parameters. **89k:93225**
Kostenko, Yu. T. (*with* Mazmanishvili, A. S.) Compact representation of the Hadamard function in a multidimensional space that is based on an integral correlation matrix operator. (Russian) **89k:93226**
Koyama, Hideyuki Factorization of probability density for a certain diffusion processes and the applications to stochastic control. **89k:93227**
Krasil′shchikov, M. N. *see* **Karlov, V. I., 89e:93222**
Krasovskiĭ, A. N. Construction of mixed strategies on the basis of stochastic programs. **89j:93142**
Kumar, P. R. Recent advances in the theory of stochastic adaptive control. **89d:93119**
Kushner, Harold J. Almost optimal controls for wideband noise driven systems. **89g:93112**
— (*with* Ramachandran, K. M.) Nearly optimal singular controls for wideband noise driven systems. **89c:93082**
Ladde, G. S. (*with* Sirisaengtaksin, O.) Near-optimum regulators for stochastic singularly perturbed systems. **89b:93117**
Lee, Sung J. (*with* Rao, A. N. V.) Stochastic optimal control problem with nonstandard boundary conditions. **89b:93118**
Lefebvre, Mario Utilisation de densités de premier passage en commande optimale stochastique. (English summary) [Using first-passage densities in stochastic optimal control] **89d:93120**
— (*with* Whittle, Peter) Survival optimization for a dynamic system. (French summary) **89i:93123**
Leizarowitz, Arie On almost sure optimization for stochastic control systems. **89a:93058**
Leong, K. Y. *see* **Lim, Cheng-Chew; et al., 89k:93228**
Li, Shu *see* **Ho, Yu-Chi, 89b:93116**
Lim, Cheng-Chew (*with* Hang, C. C.; Leong, K. Y.) Critical control weighting for non-minimum-phase stochastic control systems. **89k:93228**
Lin, Cheng De Optimal control for a class of stochastic systems with partial observation. (Chinese. English summary) **89e:93224**
Ma, Yu Xu (*with* Wu, Jie^2) An LQG self-tuning controller. (Chinese. English summary) (Not in MR)
Mania, M. G. *see* **Chitashvili, R. Ya., 89a:93056**
Mariton, M. Jump linear quadratic control with random state discontinuities. **89b:93119**
Mazmanishvili, A. S. *see* **Kostenko, Yu. T., 89k:93226**
Meerkov, Semyon M. (*with* Runolfsson, Thordur) Residence time control. **89b:93120**
Menaldi, José-Luis Bounded variation control of a damped linear oscillator under random disturbances. **89e:93225**
Minciardi, R. *see* **Aicardi, M.; et al.**, (Not in MR)
Mosca, E. (*with* Zappa, Giovanni) Matrix fraction solution to the discrete-time LQ stochastic tracking and servo problems. (Not in MR)
Muraca, P. *see* **Carotenuto, L.; et al., 89d:93116**
Omani, F. K. Adaptive pole-placement control with filtered states and steady-state disturbance rejection. **89k:93229**
Pestien, Victor C. (*with* Sudderth, William D.) Continuous-time casino problems. **89f:93047**
Pham Tran Nhu Feedback control under jump Markov and independent increment disturbances. **89d:93121**
— Feedback under Markov disturbances depending on control parameters. **89j:93143**
Podtsykin, N. S. *see* **Baranov, V. V.; et al., 89d:93115**
Pontier, Monique (*with* Szpirglas, J.) Filtering with observations on a Riemannian symmetric space. **89i:93124**
Popkov, Yu. S. (*with* Ashimov, A. A.; Asaubaev, K. Sh.) ★ Статистическая теория автоматических систем с динамической частотно-импульсной модуляцией. (Russian) [Statistical theory of automatic systems with dynamic frequency-impulse modulation] **89e:93226**
Porosiński, Zdzisław (*with* Szajowski, Krzysztof; Trybuła, Stanisław) Minimax control of a second order linear system. **89b:93121**
Raiconi, G. *see* **Carotenuto, L.; et al., 89d:93116**
Ramachandran, K. M. *see* **Kushner, Harold J., 89c:93082**
Rao, A. N. V. *see* **Lee, Sung J., 89b:93118**
Rishel, Raymond Warren A nonlinear discrete time stochastic adaptive control problem. **89e:93227**
— *see also* **Beneš, V. E., 89e:93217**
Robin, Maurice On some perturbation problems in optimal stopping and impulse control. **89c:93083**
Rodnishchev, N. E. *see* **Bodner, V. A.; et al., 89j:93138**
Romanenko, V. D. Optimal discrete control of a multidimensional object with an estimate for the state and perturbation variables. (Russian) (Not in MR)
Rozorinov, G. N. (*with* Èĭdel′man, S. D.) Calculation of the energy spectra of digital signals on the output of the encoder. (Russian. English summary) **89a:93059**
Runolfsson, Thordur *see* **Meerkov, Semyon M., 89b:93120**
Saksena, Vikram R. (*with* Başar, Tamer) Multimodeling, singular perturbations, and stochastic decision problems. **89i:93125**
Saridis, George N. Entropy formulation of optimal and adaptive control. **89j:93144**
Scattolini, Riccardo Self-tuning control of systems with infrequent and delayed output sampling. **89j:93145**
Šebek, M. (*with* Hunt, K. J.; Grimble, M. J.) LQG regulation with disturbance measurement feedforward. **89e:93228**
de la Sen, Manuel Optimal prediction and control in the presence of unmodelled dynamics.

89e:93229

Shaĭkhet, L. E. Optimal control of some hyperbolic and stochastic integral equations. (Russian) **89a:93060**

— On an optimal control problem of partly observable stochastic Volterra's process. (Russian summary) **89b:93122**

— *see also* **Kolmanovskiĭ, V. B., 89k:93225**

Shander, V. N. Conditions for the optimality of a quasi-open strategy. (Russian. English summary) **89e:93230**

Shchukina, G. P. A problem of stochastic control. (Russian) **89k:93230**

Shieh, L. S. (*with* Bao, Yuan L.; Chang, Fan Jên) State-space self-tuning regulators for general multivariable stochastic systems. **89k:93231**

Shreve, Steven E. An introduction to singular stochastic control. **89d:93122**

Silva Filho, O. S. *see* **Geromel, J. C.,** (Not in MR)

Simaranov, S. Yu. Control of multichannel measuring systems by a terminal criterion. **89k:93232**

Sirisaengtaksin, O. *see* **Ladde, G. S., 89b:93117**

Soner, H. M. Optimal control of jump-Markov processes and viscosity solutions. **89h:93055**

Sudderth, William D. *see* **Pestien, Victor C., 89f:93047**

Szajowski, Krzysztof *see* **Porosiński, Zdzisław; et al., 89b:93121**

Szpirglas, J. *see* **Pontier, Monique, 89i:93124**

Tenno, R. Approximation of the optimal controls of a bilinear diffusion process. (Russian) **89g:93113**

Tret′yakov, V. E. Synthesis of optimal guaranteeing control. (Russian summary) **89i:93126**

Trybuła, Stanisław Minimax control with disturbances having different parameters. (Russian and Polish summaries) **89b:93123**

— Minimax law for a multivariate stochastic system. (Russian and Polish summaries) (Not in MR)

— *see also* **Porosiński, Zdzisław; et al., 89b:93121**

Tudor, Constantin Quadratic control for linear stochastic evolution equations. **89j:93146**

Vermes, Domokos *see* **Fleming, W. H., 89k:93223**

Wang, Zhen Xue Generalized predictive control based on a stochastic reference input. (Chinese. English summary) **89f:93048**

Whittle, Peter *see* **Lefebvre, Mario, 89i:93123**

Wu, Jie^2 *see* **Ma, Yu Xu,** (Not in MR)

Yurikov, E. P. *see* **Bodner, V. A.; et al., 89j:93138**

Zappa, Giovanni *see* **Mosca, E.,** (Not in MR)

Zhang, Qing A note on a nonlinear semigroup for controlled partially observed diffusions. **89g:93114**

Zhang, Weijian An analytical solution of the Fokker-Planck equation in the phase-locked loop transient analysis. **89k:93233**

— (*with* Elliott, David L.) Stochastic time-optimal control problems. **89k:93234**

Items with secondary classifications in 93E20

Albertini, Francesca (*with* Runggaldier, Wolfgang J.) Logarithmic transformations for discrete-time, finite-horizon stochastic control problems. **89m:49044**

Anderson, Robert Frank Replacement with nonconstant operating cost. **89k:90070**

Anisimov, V. V. (*with* Petrenko, O. R.) Recurrent adaptive optimization of controllable Markov systems. (Russian. English and Georgian summaries) **89f:90182**

Assaf, David *see* **Taksar, Michael; et al., 89d:90028**

Baĭsakalov, I. B. Optimal control of a stochastic system under conditions of uncertainty. (Russian) **89e:49008**

Balakrishnan, A. V. Control of flexible flight structures. **89j:93089**

Bancora-Imbert, M. C. (*with* Chow, P. L.; Menaldi, José-Luis) On the numerical approximation of an optimal correction problem. **89i:93127**

Banek, Tadeusz (*with* Gedymin, Olgierd) Stochastic production-inventory control problem with random demand. (Russian and Polish summaries) (Not in MR)

Bao, Yuan L. *see* **Shieh, L. S.; et al., 89d:93023**

Barron, E. N. (*with* Jensen, Robert) Total risk aversion, stochastic optimal control, and differential games. **89k:90203**

Bellizzi, Serge (*with* Bouc, Robert; Campillo, Fabien; Pardoux, É.) Contrôle optimal semi-actif de suspension de véhicule. (English summary) [Semi-active optimal control of vehicle suspension] (*see* **89c:00031**)

Bensoussan, A. On some parabolic equations arising from ergodic control. **89a:35106**

— Équations paraboliques intervenant en contrôle optimal ergodique. (English and Portuguese summaries) [Parabolic equations arising in ergodic optimal control] **89i:35020**

— ★ Perturbation methods in optimal control. **89m:93002**

Bernstein, Dennis S. (*with* Hyland, D. C.) Optimal projection equations for reduced-order modelling, estimation, and control of linear systems with multiplicative white noise. **89j:93104**

Bertoni, G. *see* **Penati, M. E.; et al., 89f:93016**

Bertsekas, Dimitri P. ★ Dynamic programming. **89f:49001**

Bodyanskiĭ, E. V. Design of multidimensional pseudodual adaptive controllers. (Russian. English summary) **89e:93084**

Bouc, Robert *see* **Bellizzi, Serge; et al., (89c:00031)**

Boukas, K. (*with* Haurie, A.) Optimality conditions for continuous time systems with controlled jump Markov disturbances: application to an FMS planning problem. **89f:49029**

Caines, Peter E. *see* **Sabourin, Michael G., 89e:93102**

Campillo, Fabien *see* **Bellizzi, Serge; et al., (89c:00031)**

Catlin, Donald E. ★ Estimation, control, and the discrete Kalman filter. **89k:93001**

Cavazos-Cadena, Rolando Necessary and sufficient conditions for a bounded solution to the optimality equation in average reward Markov decision chains. **89g:90229**

Chaleyat-Maurel, M. (*with* Michel, Dominique) The support of the law of a filter in C^∞ topology. **89f:60044**

Ch'ên, Po Hsien *see* **Hsiao, Fêng Hsiang, 89b:93081** *and* **89h:49031**

Chow, P. L. *see* **Bancora-Imbert, M. C.; et al., 89i:93127**

Christensen, G. S. *see* **Soliman, S. A., 89e:93151**

Coleman, Norman P. *see* **Shieh, L. S.; et al., 89d:93023**

Dai, Guan Zhong *see* **Wang, Li Xin, 89g:93093**

Da Prato, G. (*with* Ichikawa, Akira) Quadratic control for linear periodic systems. **89e:49029**

Dekker, Rommert Counterexamples for compact action Markov decision chains with average reward criteria. **89g:90230**

Dokuchaev, N. G. Transversality conditions for the stochastic maximum principle. (Russian) **89h:49022**

Doyle, John C. *see* **Glover, Keith, 89e:93071**

Fleming, W. H. (*with* Sethi, Suresh P.; Soner, H. M.) An optimal stochastic production planning problem with randomly fluctuating demand. **89c:90057**

Garroni, Maria Giovanna (*with* Menaldi, José-Luis) On the asymptotic behaviour of solutions of integro-differential inequalities. **89m:49048**

Gątarek, D. I. A note on convergence of parabolic Itô equations. **89i:60129**

Gedymin, Olgierd *see* **Banek, Tadeusz,** (Not in MR)

Ghosh, Dipankar (*with* Knapp, Charles H.) Measurement selection for linear multivariable control systems. **89k:93089**

Glover, Keith (*with* Doyle, John C.) State-space formulae for all stabilizing controllers that satisfy an H_∞-norm bound and relations to risk sensitivity. **89e:93071**

Goldstein, Larry Mark Minimizing noisy functionals in Hilbert space: an extension of the Kiefer-Wolfowitz procedure. **89h:62142**

Gómez M., Guillermo L. Discounted values and stochastic rates arising in control theory. **89c:90040**

— Attainability and reversibility of a golden age for the labour-surplus economy: a stochastic variational approach. **89j:90065**

Grecksch, W. ★ Stochastische Evolutionsgleichungen und deren Steuerung. (German) [Stochastic evolution equations and their control] **89c:60071**

Greenhalgh, David Some results on optimal control applied to epidemics. **89d:92064**

Grimble, M. J. Optimal H_∞ multivariable robust controllers and the relationship to LQG design problems. **89i:93028**

— Minimax design of optimal stochastic multivariable systems. **89m:49045**

Guan, Yan Shen *see* **Yarng, Jiahn Bo,** (Not in MR)

Halanay, Aristide (*with* Tudor, Constantin; Morozan, T.) Tracking almost periodic signals under white noise perturbations. **89d:49016**

Haurie, A. *see* **Boukas, K., 89f:49029**

Hernández, Diego Bricio The Hamilton-Jacobi-Bellman equation and some applications. (Spanish) **89a:49029**

Hogg, B. W. *see* **Wu, Q. H.,** (Not in MR)

Hopkins, William E., Jr. Optimal stabilization of families of linear stochastic differential equations with jump coefficients and multiplicative noise. **89d:93080**

Hsiao, Fêng Hsiang (*with* Ch'ên, Po Hsien) Robustness optimization in LQG multivariate systems with time-varying nonlinear perturbations. **89h:49031**

— (*with* Ch'ên, Po Hsien) LQG optimal and robust controller design for nonlinear stochastic systems: multivariable case. **89b:93081**

Hübner, G. A unified approach to adaptive control of average reward Markov decision processes. (German summary) **89j:90265**

Hyland, D. C. *see* **Bernstein, Dennis S., 89j:93104**

Ichikawa, Akira Stability and control of linear periodic systems. **89k:49016**

— *see also* **Da Prato, G., 89e:49029**

Ivanenko, V. I. Some questions regarding indeterminacy and dynamics in control problems. **89i:93003**

Jacobs, E. E. *see* **Yavin, Y., 89h:90275**

Jensen, Robert *see* **Barron, E. N., 89k:90203**

Ji, Chuanshu Sequential scheduling of priority queues and arm-acquiring bandits. **89k:60139**

Karabash, M. A. Feedback controls for stochastic equations with monotone coefficients. (Russian) **89j:49011**

Karatzas, Ioannis (*with* Lehoczky, John P.; Shreve, Steven E.) Optimal portfolio and consumption decisions for a "small investor" on a finite horizon. **89d:90025**

Katkovnik, V. Ya. (*with* Kheĭsin, V. E.) Adaptive control of a static essentially nonstationary object. **89e:93140**

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Khalil, Hassan K. *see* **Kokotović, P. V.; et al., 89h:93022**

Kheĭsin, V. E. *see* **Katkovnik, V. Ya., 89e:93140**

Klass, Michael J. *see* **Taksar, Michael; et al., 89d:90028**

Knapp, Charles H. *see* **Ghosh, Dipankar, 89k:93089**

Kokotović, P. V. (*with* Khalil, Hassan K.; O'Reilly, John) ★ Singular perturbation methods in control: analysis and design. **89h:93022**

Kolev, Nikolaĭ V. An optimal control problem with implicit breakdowns and relation with distributions of order K. **89g:90116**

Konyukhova, T. A. (*with* Rotar′, V. I.) Solutions that are optimal in probability of a problem on a linear stochastic controller. (Russian) (*see* **89j:60003**)

Krylov, N. V. Some general results in control theory. **89c:49025**

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Kuntsevich, V. M. (*with* Lychak, M. M.; Nikitenko, A. S.) Active identification of the parameters of a linear static object (a game-theoretic problem of the design of an experiment). (Russian. English summary) **89e:93208**

Lai, T. L. (*with* Ying, Zhiliang) Open bandit processes and optimal scheduling of queueing networks. **89f:90187**

Lam, Yeh Optimal control of a finite dam—discounted cost case. **89g:90087**

Lehoczky, John P. *see* **Karatzas, Ioannis; et al., 89d:90025**

Leizarowitz, Arie Infinite horizon optimization for finite state Markov chain. **89g:90234**

Lin, Wei^2 (*with* Liu, Mei Hua) Multivariable adaptive control with arbitrary dimension of input and output. (Chinese. English summary) **89i:93076**

Lions, Pierre-Louis (*with* Souganidis, P. E.) Viscosity solutions of second-order equations, stochastic control and stochastic differential games. **89e:49021**

Liu, Mei Hua *see* **Lin, Wei^2, 89i:93076**

Lychak, M. M. *see* **Kuntsevich, V. M.; et al., 89e:93208**

Mäkilä, P. M. *see* **Toivonen, H. T.,** (Not in MR)

Mandelbaum, Avi Continuous multi-armed bandits and multiparameter processes. **89b:62169**

— Navigating and stopping multiparameter bandit processes. **89j:62114**

Mazziotto, G. (*with* Millet, Annie) Stochastic control of two-parameter processes application: the two-armed bandit problem. **89d:90233**

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Menaldi, José-Luis *see* **Bancora-Imbert, M. C.; et al., 89i:93127** *and* **Garroni, Maria Giovanna, 89m:49048**

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Mezerdi, Brahim Necessary conditions for optimality for a diffusion with a nonsmooth drift. **89j:49021**

Michel, Dominique *see* **Chaleyat-Maurel, M., 89f:60044**

Millet, Annie *see* **Mazziotto, G., 89d:90233**

Morozan, T. *see* **Halanay, Aristide; et al., 89d:49016**

Newmann, M. M. *see* **Roberts, A. P., 89i:93025**

Nikitenko, A. S. *see* **Kuntsevich, V. M.; et al., 89e:93208**

O'Reilly, John *see* **Kokotović, P. V.; et al., 89h:93022**

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Penati, M. E. (*with* Tibaldi, M.; Bertoni, G.) Reduced order regulators for large scale systems: a numerical implementation for stochastic and deterministic systems. **89f:93016**

Perel'man, I. I. Design of an experiment in problems of the construction of models for control objects. (Russian. English summary) **89f:62063**

Petrenko, O. R. *see* **Anisimov, V. V., 89f:90182**

Piunovskiĭ, A. B. The discounted controlled Markov chain with delay. (Russian summary) **89k:90175**

Poor, H. Vincent *see* **Verdú, Sergio, 89f:90181**

Reyman, Grzegorz (*with* Schäfer, Wolfgang; Trippler, Gisela) Application of dynamic programming and discrete maximum principle to a problem of optimal operation choice for a robot in assembly processes. (Russian and Polish summaries) (Not in MR)

Roberts, A. P. (*with* Newmann, M. M.) Polynomial optimization of stochastic feedback control for stable plants. **89i:93025**

Rotar', V. I. *see* **Konyukhova, T. A.,** (**89j:60003**)

Runggaldier, Wolfgang J. *see* **Albertini, Francesca, 89m:49044**

Rust, John Maximum likelihood estimation of discrete control processes. **89k:62112**

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Schäfer, Wolfgang *see* **Reyman, Grzegorz; et al.,** (Not in MR)

Schmidt, Günther *see* **Kuhn, Udo, 89e:93096**

Sethi, Suresh P. *see* **Fleming, W. H.; et al., 89c:90057**

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Shreve, Steven E. *see* **Karatzas, Ioannis; et al., 89d:90025**

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Soner, H. M. *see* **Fleming, W. H.; et al., 89c:90057**

Souganidis, P. E. *see* **Lions, Pierre-Louis, 89e:49021**

Stettner, Ł. On ergodic stopping and impulsive control problems for nonuniformly ergodic Markov processes. **89k:60060**

— *see also* **Mazziotto, G.; et al., 89i:49009**

Szpirglas, J. *see* **Mazziotto, G.; et al., 89i:49009**

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Toivonen, H. T. (*with* Mäkilä, P. M.) Computer-aided design procedure for multiobjective LQG control problems. (Not in MR)

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Trippler, Gisela *see* **Reyman, Grzegorz; et al.,** (Not in MR)

Tsyganov, V. V. A characteristic of and optimality of adaptive mechanisms. **89m:93051**

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Verdú, Sergio (*with* Poor, H. Vincent) Abstract dynamic programming models under commutativity conditions. **89f:90181**

Vorchik, B. G. Limit properties of an adaptive control system with identification (application of identifiability equations). I. An object with one control input and one output. **89j:93072**

Wang, Li Xin (*with* Dai, Guan Zhong) A survey of distributed estimation theories. (Chinese. English summary) **89g:93093**

Wu, Q. H. (*with* Hogg, B. W.) Robust self-tuning regulator for a synchronous generator. (Not in MR)

Yarng, Jiahn Bo (*with* Guan, Yan Shen) Optimal control of supersonic inlet/engine combination. (Not in MR)

Yavin, Y. (*with* Jacobs, E. E.) Reaching a protected target site under detection-time constraints. **89h:90275**

Yaz, Engin Stabilizing compensator design for discrete-time nonlinear stochastic systems with incomplete state information. **89e:93161**

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Yushkevich, A. A. Application of Bellman inequalities to the control of a queueing system. (Russian) **89f:60117**

— On the two-armed bandit problem with continuous time parameter and discounted rewards. **89k:90172**

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— *see also* **Mazziotto, G.; et al., 89i:49009**

Zinkus, Rimvidas Adaptive control of a linear dynamic object based on parallel information processing. (Russian. English and Lithuanian summaries) **89d:93063**

93E25 Computational methods

Bancora-Imbert, M. C. (*with* Chow, P. L.; Menaldi, José-Luis) On the numerical approximation of an optimal correction problem. **89i:93127**

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Boguslavskiĭ, I. A. A robust algorithm for recurrent filtering. (Not in MR)

Botto, Jean-Luc Numerical divergence of fast recursive least-squares transversal filters. (French summary) **89c:93084**

Chai, Tian You Globally convergent self-tuning controllers. **89e:93231**

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Clements, M. A. *see* **Hayes, M. H.; et al.,** (**89b:94004**)

Dubois, Didier *see* **Favier, G.; et al., 89e:93232**

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Favier, G. (*with* Dubois, Didier; Rougerie, C.) On predictive control: a comparison and some extensions. **89e:93232**

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Hayes, M. H. (*with* Wilkes, D. M.; Clements, M. A.) Iterative harmonic decomposition of nonstationary random processes: theory and application to spectral line tracking. (*see* **89b:94004**)

Huang, Jian Zhong *see* **Yan, Ping Fan, 89j:93149**

Khas'minskiĭ, R. Z. Controllable Markov processes and optimization of random multiple access algorithms. **89j:93147**

Kogan, I. A. Optimal segmentation of structural experimental curves on the basis of the dynamic programming method. **89i:93128**

Kolodziej, Wojciech J. (*with* Mohler, Ronald R.) On structurally decomposing processes. **89m:93091**

Kozin, F. *see* **Voltz, P.,** (Not in MR)

Macchi, Odile (*with* Eweda, Eweda) Compared speed and accuracy of the RLS and LMS algorithms with constant forgetting factors. **89g:93115**

Menaldi, José-Luis *see* **Bancora-Imbert, M. C.; et al., 89i:93127**

Mignolet, M. P. (*with* Spanos, P. D.) Recursive simulation of stationary multivariate random processes. I. **89i:93129**

— *see also* **Spanos, P. D., 89i:93130**

Mohler, Ronald R. *see* **Kolodziej, Wojciech J., 89m:93091**

Monaco, Salvatore (*with* Normand-Cyrot, Dorothée) A Lie exponential formula for the nonlinear discrete time functional expansions. **89d:93123**

Nakonechnyĭ, A. N. A class of stochastic extremal problems with rare events. **89d:93124**

Normand-Cyrot, Dorothée *see* **Monaco, Salvatore, 89d:93123**

Radenković, Miloje S. Convergence of the generalized dual control algorithm. **89e:93233**

(Rishel, Raymond Warren) *see* **Bayard, David S., 89k:93235**

Rougerie, C. *see* **Favier, G.; et al., 89e:93232**

Rubinstein, Reuven Y. (*with* Szidarovszky, Ferenc) Convergence of perturbation analysis estimates for discontinuous sample functions: a general approach. **89h:93056**

Spanos, P. D. (*with* Mignolet, M. P.) Recursive simulation of stationary multivariate random processes. II. **89i:93130**

— *see also* **Mignolet, M. P., 89i:93129**

Szidarovszky, Ferenc *see* **Rubinstein, Reuven Y., 89h:93056**

Tarrab, Moshe (*with* Feuer, Arie) Convergence and performance analysis of the normalized LMS algorithm with uncorrelated Gaussian data. **89j:93148**

Veretennikov, A. Yu. Rate of convergence of stochastic iterative procedures in ill-posed problems. **89b:93124**

Voltz, P. (*with* Kozin, F.) Almost-sure convergence of adaptive algorithms by projections. (Not in MR)

Wilkes, D. M. *see* **Hayes, M. H.; et al.,** (**89b:94004**)

Yan, Ping Fan (*with* Huang, Jian Zhong) A family of generalized adaptive algorithms. (Chinese. English summary) **89j:93149**

Yin, Gang George A stopped stochastic approximation algorithm. **89e:93234**

— *see also* **Zhu, Yun Min, 89b:93125**

Zhu, Yun Min (*with* Yin, Gang George) Adaptive filters with constraints and correlated nonstationary signals. **89b:93125**

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Adomian, George A. ★ Стохастические системы. (Russian) [Stochastic systems] **89h:93002**

Agrawal, Rajeev (*with* Teneketzis, Demosthenis; Anantharam, Venkatachalam) Asymptotically efficient adaptive allocation schemes for controlled i.i.d. processes: finite parameter space. **89m:90092**

Ahmed, N. U. ★ Optimization and identification of systems governed by evolution equations on Banach space. **89m:93021**

Anantharam, Venkatachalam *see* **Agrawal, Rajeev; et al., 89m:90092**

(Bellman, Richard) *see* **Adomian, George A., 89h:93002**

Borisenko, A. I. Adaptive control of a matrix of spectral densities at the output of a linear multidimensional object. (Russian) **89m:93047**

Boudaoud, M. (*with* Chaparro, L. F.) Composite modeling of nonstationary signals. **89d:94013**

Byvaĭkov, M. E. (*with* Romashchev, A. A.) Synthesis of a difference equation for statistical estimation and forecasting. (Russian. English summary) **89b:62201**

Chaparro, L. F. *see* **Boudaoud, M., 89d:94013**

Chen, Hui Xin (*with* Ruan, Rong Yao) Strong consistency and convergence rate of extended least squares method. **89e:93203**

Chernetskiĭ, V. I. Application of the Banach-Steinhaus theorem for proving the convergence of an interpolation method for the investigation of equations with a random parameter. (Russian) **89g:41001**

Chikin, D. O. Convergence of stochastic approximation procedures in the presence of dependent noise. **89g:62142**

Chu, Xue Dao *see* **Jiang, Tao, 89k:93211**

Chung, K. P. Steady state solution and convergence rate of time-dependent Markov chains of queuing networks. **89g:90109**

Dasgupta, Soura Adaptive identification of systems with polynomial parameterizations. (Not in MR)

Demoment, G. (*with* Houacine, A.) Stabilisation of fast RLS algorithms. **89c:94006**

Desai, U. B. (*with* Skelton, Robert E.) Partially nested q-Markov covariance equivalent realizations. **89h:93014**

Eweda, Eweda (*with* Macchi, Odile) Convergence of the RLS and LMS adaptive filters. **89k:93209**

Facchinetti, Gisella Duality and stochastic convergence of minima. (Italian) (Not in MR)

Favier, G. Numerically efficient adaptive identification algorithms. (French summary) **89e:93206**

Fisher, D. Grant *see* **Sripada, N. Rao, 89a:93048**

Föglein, J. On the rate of convergence of a dynamic stochastic approximation method. (Russian summary) **89d:62083**

Germani, A. (*with* Jetto, L.; Piccioni, M.) Galerkin approximation for optimal linear filtering of infinite-dimensional linear systems. **89c:93071**

Grimble, M. J. Convergence of explicit LQG self-tuning controllers. **89e:93138**

Hammarling, S. The numerical solution of the general Gauss-Markov linear model. (*see* **89b:94004**)

Hara, Kei (*with* Yamamoto, Tetsuhiko; Ougita, Kazuyuki) Parameter identification of distributed parameter systems using spline functions. **89a:93054**

Houacine, A. *see* **Demoment, G., 89c:94006**

Jetto, L. *see* **Germani, A.; et al., 89c:93071**

Jiang, Tao (*with* Chu, Xue Dao) A fast identification method for the SISO CARMA model. (Chinese. English summary) **89k:93211**

Kandilakis, Dimitrios (*with* Papageorgiou, Nikolaos S.) Nonsmooth analysis and approximation. **89c:49012**

Kazemi-Dehkordi, M. A. A method of successive approximations for optimal control of distributed parameter systems. **89g:49039**

Kel′mans, G. K. Identification of auto-regression plants subjected to moving average noise. (Polish summary) **89d:93106**

Kliokys, Edvardas Optimal filtering in systems with random structure and discrete time. (Russian. English summary) **89e:93197**

Kushner, Harold J. (*with* Yin, Gang George) Asymptotic properties of distributed and communicating stochastic approximation algorithms. **89c:60028**

— (*with* Ramachandran, K. M.) Nearly optimal singular controls for wideband noise driven systems. **89c:93082**

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Marinchenko, T. A. Application of stochastic quasigradient methods for dynamical systems. (Russian) **89e:90149**

Moore, John Barratt Convergence of continuous time stochastic ELS parameter estimation. **89h:93053**

Norton, J. P. ★ An introduction to identification. **89e:93210**

Novikova, N. M. Stochastic methods for the numerical solution of convex variational inequalities. (Russian) **89d:49005**

Obruchev, V. L. *see* **Salyga, V. I.; et al., 89b:93110**

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Pan, Ya Ming (*with* Zhao, Xiao Ming) The use of the "partitioned matrix method" for the fast calculation of the pole placement adaptive control law. (Chinese. English summary) **89c:93046**

Panossian, Hagop V. Uncertainty management techniques in adaptive control. **89c:93052**

Papageorgiou, Nikolaos S. *see* **Kandilakis, Dimitrios, 89c:49012**

Pflug, Georg Ch. Derivatives of probability measures: concepts and applications to the optimization of stochastic systems. **89j:60062**

Piccioni, M. *see* **Germani, A.; et al., 89c:93071**

Ramachandran, K. M. *see* **Kushner, Harold J., 89c:93082**

Riganti, Riccardo Evolution of the *n*th probability density and entropy function in stochastic systems. **89e:93182**

Romashchev, A. A. *see* **Byvaikov, M. E., 89b:62201**

Ruan, Rong Yao *see* **Chen, Hui Xin, 89e:93203**

Rudenko, O. G. *see* **Salyga, V. I.; et al., 89b:93110**

Salyga, V. I. (*with* Rudenko, O. G.; Obruchev, V. L.) Reduced multistep algorithms for identification of linear plants. (Russian summary) **89b:93110**

Skelton, Robert E. *see* **Desai, U. B., 89h:93014**

Sripada, N. Rao (*with* Fisher, D. Grant) Improved least squares identification. **89a:93048**

Teneketzis, Demosthenis *see* **Agrawal, Rajeev; et al., 89m:90092**

Van Dooren, Paul (*with* Verhaegen, M. H.) Condensed forms for efficient time-invariant Kalman filtering. **89b:65107**

Verhaegen, M. H. *see* **Van Dooren, Paul, 89b:65107**

(Volkov, N. G.) *see* **Adomian, George A., 89h:93002**

Wang, Kan An adaptive linear-phase filter with a recursive sequence algorithm. (Chinese. English summary) (Not in MR)

Wardi, Y. A stochastic steepest-descent algorithm. **89m:90146**

Yamamoto, Tetsuhiko *see* **Hara, Kei; et al., 89a:93054**

Yin, Gang George *see* **Kushner, Harold J., 89c:60028**

Zhao, Xiao Ming *see* **Pan, Ya Ming, 89c:93046**

Zhu, Yun Min Optimal allocation of the number of iterations for a class of stochastic approximation problems. (Chinese. English summary) **89j:62116**

93E99 None of the above, but in this section

Items with secondary classifications in 93E99

Ch'ên, Po Hsien (*with* Dong, Tay Yuh) Robust stability analysis of Kalman-Bucy filter under parametric and noise uncertainties. **89k:93202**

Coffman, E. G., Jr. (*with* Lueker, G. S.; Rinnooy Kan, A. H. G.) Asymptotic methods in the probabilistic analysis of sequencing and packing heuristics. **89e:68045**

Dong, Tay Yuh *see* **Ch'ên, Po Hsien, 89k:93202**

Lueker, G. S. *see* **Coffman, E. G., Jr.; et al., 89e:68045**

Rinnooy Kan, A. H. G. *see* **Coffman, E. G., Jr.; et al., 89e:68045**

94–XX Information and communication, circuits

Items with secondary classifications in 94–XX

Mah, Richard S. H. *see* **Narasimhan, Shankar**, (Not in MR)

Narasimhan, Shankar (*with* Mah, Richard S. H.) Generalized likelihood ratios for gross identification in dynamic processes. (Not in MR)

94–01 Elementary exposition; textbooks

Ahamed, Syed V. *see* **Miller, Michael J., 89c:94002a** *and* **89c:94002b**

Boite, René (*with* Kunt, Murat) ★ Traitement de la parole. (French) [Speech processing] **89f:94001**

Cattermole, Kenneth W. ★ Mathematical foundations for communication engineering. Vol. 2. **89c:94001**

Kunt, Murat *see* **Boite, René, 89f:94001**

Mildenberger, Otto ★ Grundlagen der Statistischen Systemtheorie. (German) [Foundations of statistical system theory] **89k:94001**

Miller, Michael J. (*with* Ahamed, Syed V.) ★ Digital transmission systems and networks. Vol. I. **89c:94002a**

— (*with* Ahamed, Syed V.) ★ Digital transmission systems and networks. Vol. II. **89c:94002b**

Voloch, J. F. ★ Códigos corretores de erros. (Portuguese) [Error-correcting codes] **89j:94001**

Items with secondary classifications in 94–01

Kvetnyĭ, R. N. (*with* Malikov, V. T.) ★ Информационная теория измерений: от модели к изделию. (Russian) [Informational theory of measurements: from the model to the product] **89k:94028**

Malikov, V. T. *see* **Kvetnyĭ, R. N., 89k:94028**

Poor, H. Vincent ★ An introduction to signal detection and estimation. **89g:62004**

94–02 Advanced exposition (research surveys, monographs, etc.)

(Cover, Thomas M.) *see* **Open problems in communication and computation, 89c:94003**

Danilov, L. V. ★ Ряды Вольтерра-Пикара в теории нелинейных электрических цепей. (Russian) [Volterra-Picard series in the theory of nonlinear electrical circuits] **89g:94001**

(Gopinath, B.) *see* **Open problems in communication and computation, 89c:94003**

Welsh, Dominic ★ Codes and cryptography. **89i:94001**

(Zyablov, V. V.) *see* **Noise-resistant coding and computer reliability, 89b:94001**

Items listed otherwise than by author

Noise-resistant coding and computer reliability ★ Помехоустойчивое кодирование и надежность ЭВМ. (Russian) [Noise-resistant coding and computer reliability] **89b:94001**

Open problems in communication and computation ★ Open problems in communication and computation. **89c:94003**

Items with secondary classifications in 94–02

Aczél, J. Some recent results on information measures, a new generalization and some "real life" interpretations of the "old" and new measures. **89g:94014**

(Basch, Michal) *see* **Vích, Robert, 89g:94006**

Basseville, M. Detecting changes in signals and systems—a survey. **89d:94018**

Cummings, L. J. Aspects of synchronizable coding. **89i:94048**

Janssen, A. J. E. M. The Zak transform: a signal transform for sampled time-continuous signals. **89g:94005**

Likharev, K. K. ★ Dynamics of Josephson junctions and circuits. (Not in MR)

Pless, Vera S. Duadic codes revisited. **89j:94031**

Pliquett, Jürgen *see* **Voelkel, Lutz, 89i:94061**

Sander, Wolfgang The fundamental equation of information and its generalizations. **89g:94017**

Vích, Robert ★ $\mathscr{Z}$ transform theory and applications. **89g:94006**

Voelkel, Lutz (*with* Pliquett, Jürgen) ★ Signaturanalyse. (German) [Signature analysis] **89i:94061**

Zemanian, A. H. Infinite electrical networks: a reprise. **89i:94054**

94–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 94–03

Kelemen, Jozef *see* **Kelemenová, Alica, 89h:01068**

Kelemenová, Alica (*with* Kelemen, Jozef) The state in Europe of mathematical information science—an interview with Arto Salomaa. (Slovak) **89h:01068**

(Salomaa, Arto) *see* **Kelemenová, Alica, 89h:01068**

94–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 94–04

Kailath, Thomas *see* **Paulraj, A., 89i:94003**

Paulraj, A. (*with* Kailath, Thomas) Direction of arrival estimation by eigenstructure methods with imperfect spatial coherence of wave fronts. **89i:94003**

94–06 Proceedings, conferences, etc.

(Abbiss, J. B.) *see* **Mathematics in signal processing, 89b:94004**

(Beth, Th.) *see* **Applicable algebra, error-correcting codes, combinatorics and computer algebra, 89b:94002**

(Biemond, J.) *see* **Multidimensional signal processing, 89j:94003**

(Bilinskiĭ, I. Ya.) *see* **Methods and means of transforming information, 89g:94002**
(Chen, Chi Hau) *see* **Signal processing and pattern recognition in nondestructive evaluation of materials, 89a:94002**
(Clausen, M.) *see* **Applicable algebra, error-correcting codes, combinatorics and computer algebra, 89b:94002**
(Cohen, Gérard Denis) *see* **Coding theory and applications, 89c:94004**
(Costello, Daniel J., Jr.) *see* **Coding techniques and coding theory, 89j:94002**
(Durrani, T. S.) *see* **Mathematics in signal processing, 89b:94004**
(Garmash, V. A.) *see* **Models and investigation methods in systems in information science, 89m:94001**
(Godlewski, P.) *see* **Coding theory and applications, 89c:94004**
(Hudson, J. E.) *see* **Mathematics in signal processing, 89b:94004**
(Jenkins, W. Kenneth) *see* **Residue number system arithmetic, 89d:94002**
(Jullien, Graham A.) *see* **Residue number system arithmetic, 89d:94002**
(Kesler, Stanislav B.) *see* **Modern spectrum analysis, 89d:94001**
(Kharkevich, A. D.) *see* **Models and investigation methods in systems in information science, 89m:94001**
(van Lint, J. H.) *see* **Coding techniques and coding theory, 89j:94002**
(Madan, R. N.) *see* **Mathematics in signal processing, 89b:94004**
(McWhirter, J. G.) *see* **Mathematics in signal processing, 89b:94004**
(Moore, T. A.) *see* **Mathematics in signal processing, 89b:94004**
(Moscardini, A. O.) *see* **Mathematical modelling for information technology, 89b:94003**
(Nemirovskiĭ, R. F.) *see* **Methods and means of transforming information, 89g:94002**
(Robson, E. H.) *see* **Mathematical modelling for information technology, 89g:94003**
(Soderstrand, Michael A.) *see* **Residue number system arithmetic, 89d:94002**
(Taylor, Fred J.) *see* **Residue number system arithmetic, 89d:94002**

Items listed otherwise than by author

Applicable algebra, error-correcting codes, combinatorics and computer algebra ★ Applicable algebra, error-correcting codes, combinatorics and computer algebra. **89b:94002**
Bath ★ Mathematics in signal processing. **89b:94004**
Cachan ★ Coding theory and applications. **89c:94004**
Coding techniques and coding theory ★ Coding techniques and coding theory. **89j:94002**
Coding theory and applications ★ Coding theory and applications. **89c:94004**
Colloquium:
  Coding Theory ★ Coding theory and applications. **89c:94004**
Conference:
  Applicable Algebra, Error-Correcting Codes, Combinatorics and Computer Algebra ★ Applicable algebra, error-correcting codes, combinatorics and computer algebra. **89b:94002**
  Mathematics in signal processing ★ Mathematics in signal processing. **89b:94004**
  Modelling for the Communication Industries ★ Mathematical modelling for information technology. **89b:94003**
Congress:
  Cybernetics ★ 11ᵉ congrès international de cybernétique. [11th international congress on cybernetics] **89a:94001**
Karlsruhe ★ Applicable algebra, error-correcting codes, combinatorics and computer algebra. **89b:94002**
Lac Beauport, PQ ★ Signal processing and pattern recognition in nondestructive evaluation of materials. **89a:94002**
Lecture Notes in Computer Science ★ Applicable algebra, error-correcting codes, combinatorics and computer algebra. **89b:94002**
— ★ Coding theory and applications. **89c:94004**
Mathematical modelling for information technology ★ Mathematical modelling for information technology. **89b:94003**
Mathematics in signal processing ★ Mathematics in signal processing. **89b:94004**
Methods and means of transforming information ★ Методы и средства преобразования информации. Вып. 8. (Russian) [Methods and means of transforming information. No. 8] **89g:94002**
Models and investigation methods in systems in information science ★ Модели и методы исследований в системах информатики. (Russian) [Models and investigation methods in systems in information science] **89m:94001**
Modern spectrum analysis ★ Modern spectrum analysis. II. **89d:94001**
Multidimensional signal processing ★ Multidimensional signal processing. Part II. **89j:94003**
Namur ★ 11ᵉ congrès international de cybernétique. [11th international congress on cybernetics] **89a:94001**
Noordwijkerhout ★ Multidimensional signal processing. Part II. **89j:94003**
Residue number system arithmetic ★ Residue number system arithmetic. **89d:94002**
Signal processing and pattern recognition in nondestructive evaluation of materials ★ Signal processing and pattern recognition in nondestructive evaluation of materials. **89a:94002**
Special Issue:
  Coding techniques and coding theory ★ Coding techniques and coding theory. **89j:94002**
  Multidimensional signal processing ★ Multidimensional signal processing. Part II. **89j:94003**
Sunderland ★ Mathematical modelling for information technology. **89b:94003**
Workshop:
  Multidimensional Signal Processing ★ Multidimensional signal processing. Part II. **89j:94003**
  Signal Processing and Pattern Recognition in Nondestructive Evaluation of Materials ★ Signal processing and pattern recognition in nondestructive evaluation of materials. **89a:94002**

Items with secondary classifications in 94–06

(Pomerance, Carl) *see* **Advances in cryptology—CRYPTO '87, 89b:68005**

Items listed otherwise than by author

Advances in cryptology—CRYPTO '87 ★ Advances in cryptology—CRYPTO '87. **89b:68005**
Conference:
  Design Automation ★ 24th ACM/IEEE Design Automation Conference. **89f:68003**
  Theory and Applications of Cryptographic Techniques ★ Advances in cryptology—CRYPTO '87. **89b:68005**
Lecture Notes in Computer Science ★ Advances in cryptology—CRYPTO '87. **89b:68005**
Miami Beach, FL ★ 24th ACM/IEEE Design Automation Conference. **89f:68003**
Santa Barbara, CA ★ Advances in cryptology—CRYPTO '87. **89b:68005**

94Axx Communication, information

Kouřil, F. (*with* Vrba, K.) ★ Nonlinear and parametric circuits. **89k:94002**
Vrba, K. *see* **Kouřil, F., 89k:94002**

Items with secondary classifications in 94Axx

Kunt, Murat ★ Digital signal processing. **89e:94002**

94A05 Communication theory [see also 60G35]

Abramovich, Yu. I. (*with* Arov, D. Z.; Kachur, V. G.) Adaptive cancellation filters for stationary interference with a Toeplitz correlation matrix. (Not in MR)
Arce, Gonzalo R. (*with* Gallagher, Neal C., Jr.) Stochastic analysis for the recursive median filter process. (Not in MR)
Arov, D. Z. *see* **Abramovich, Yu. I.; et al.**, (Not in MR)
Averochkin, V. A. (*with* Veranov, P. Ye.; Tokolov, V. S.) A recursive filter which maximizes the output signal-to-noise ratio. **89c:94005**
Bisdikian, Chatschik *see* **Merakos, Lazaros F., 89m:94003**
Brandt, Jørgen Invariant signals for median-filters. **89m:94002**
Bulychev, Yu. G. (*with* Taran, V. N.; Khutortsev, V. V.) Stochastic semigroups of operators for space-time filtering. (Not in MR)
Caldas Pinto, J. R. *see* **Wellstead, P. E., (89b:94004)**
Capocelli, R. M. (*with* Gargano, L.; Vaccaro, U.) A model for communication over noisy channels. **89a:94003**
Cassandras, Christos G. Optimal transmission and jamming strategies in a communication channel. **89a:94004**
Castan, S. *see* **Shen, J., 89d:94005**
Chen, Xiangkun Design of IIR pulseshaping filters. (Not in MR)
Delosme, Jean-Marc (*with* Morf, Martin) Covariance decompositions via elementary transformations. Applications to filtering. **89a:94005**
Demoment, G. (*with* Houacine, A.) Stabilisation of fast RLS algorithms. **89c:94006**
Deng, Ju Long The grey exponential law for accumulative generation—the problem of optimal processing of information in grey control systems. (Chinese. English summary) **89j:94004**
Dickinson, Bradley W. *see* **Li, Shiping, 89d:94004**
Fahmy, Moustafa M. *see* **Wan, Yongbing**, (Not in MR)
Flandrin, P. (*with* Hlawatsch, F.) Signal representations geometry and catastrophes in the time-frequency plane. **89c:94007**
Fredricksen, Harold (*with* Krahn, Gary) A randomness property of m-sequences. **89g:94003**
Galko, Peter A. (*with* Pasupathy, Subbarayan) Optimization of linear receivers for data communication signals. **89c:94008**
Gallagher, Neal C., Jr. *see* **Arce, Gonzalo R.**, (Not in MR)
Galun, S. A. Effectiveness of the estimation of the time position of a random pulsed signal with an unknown modulating function. (Not in MR)
Garai, V. (*with* Szabó, Cs.; Szép, T.) New multiple access algorithms for integrating voice and data on local area networks. (Russian summary) **89i:94002**
Gargano, L. *see* **Capocelli, R. M.; et al., 89a:94003**
Hazra, Satya N. *see* **Reddy, M. Sudhakara**, (Not in MR)
Hernández, Diego Bricio Noise: its characterization, elimination and synthesis. (Spanish) (*see* **89k:00008**)
Hlawatsch, F. *see* **Flandrin, P., 89c:94007**
Houacine, A. *see* **Demoment, G., 89c:94006**
Ipatov, V. P. (*with* Kornievskiĭ, V. I.; Platonov, V. D.) Minimum-power jamming of discrete periodic signals. (Not in MR)
Johansson, Anders *see* **Zetterberg, Lars H., (89b:93008)**
Kachur, V. G. *see* **Abramovich, Yu. I.; et al.**, (Not in MR)
Kailath, Thomas Signal processing applications of some moment problems. **89e:94001**
— *see also* **Paulraj, A., 89i:94003**
Khutortsev, V. V. *see* **Bulychev, Yu. G.; et al.**, (Not in MR)
Kløve, Torleiv Bounds on the size of optimal difference triangle sets. **89k:94003**
Kornievskiĭ, V. I. *see* **Ipatov, V. P.; et al.**, (Not in MR)
Korobochkin, Yu. B. (*with* Kurkin, O. M.) Linear minimax interpolation under conditions of incomplete information on the spectral measures of the useful signal and the noise. **89d:94003**
Krahn, Gary *see* **Fredricksen, Harold, 89g:94003**
Kunt, Murat ★ Digital signal processing. **89e:94002**
Kurkin, O. M. *see* **Korobochkin, Yu. B., 89d:94003**
Lai, K'un Ts'ai (*with* Ts'ao, Hêng Wei; Li, Lin Shan) A decision-aided algorithm for adaptive equalizers in digital transmissions. (Chinese summary) (Not in MR)
Li, Ch'êng Hui Optimal memoryless strategies of a two-rate communication link. (Chinese summary) **89k:94004**
Li, Lin Shan *see* **Lai, K'un Ts'ai; et al.**, (Not in MR)
Li, Shiping (*with* Dickinson, Bradley W.) Application of the lattice filter to robust estimation of AR and ARMA models. **89d:94004**
Lim, Y. C. *see* **Yang, Rong Huan; et al., 89d:94006**
Liu, Bede *see* **Yang, Rong Huan; et al., 89d:94006**
Merakos, Lazaros F. (*with* Bisdikian, Chatschik) Delay analysis of the n-ary stack random-access algorithm. **89m:94003**
Morf, Martin *see* **Delosme, Jean-Marc, 89a:94005**
Pasupathy, Subbarayan *see* **Galko, Peter A., 89c:94008**

Paulraj, A. (*with* Kailath, Thomas) Direction of arrival estimation by eigenstructure methods with imperfect spatial coherence of wave fronts. **89i:94003**
Peng, Rong *see* **Rao, Bhaskar D., 89f:94002**
Platonov, V. D. *see* **Ipatov, V. P.; et al.,** (Not in MR)
Popovici, A. (*with* Vargas, M.) Simulation par ordinateur du comportement de réseaux adaptatifs de capteurs. [Computer simulation of the behavior of adaptive sensor networks] (*see* **89a:94001**)
Rao, Bhaskar D. (*with* Peng, Rong) Tracking characteristics of the constrained IIR adaptive notch filter. **89f:94002**
Reddy, M. Sudhakara (*with* Hazra, Satya N.) Design of two-dimensional circularly symmetric low-pass IIR filters using transformation. (Not in MR)
Shen, J. (*with* Castan, S.) Fast approximate realization with no multiplications of linear filters. **89d:94005**
Steinhardt, Allan O. Correlation matching by finite length sequences. (Not in MR)
Szabó, Cs. *see* **Garai, V.; et al., 89i:94002**
Szép, T. *see* **Garai, V.; et al., 89i:94002**
Taran, V. N. *see* **Bulychev, Yu. G.; et al.,** (Not in MR)
Tokolov, V. S. *see* **Averochkin, V. A.; et al., 89c:94005**
Ts'ao, Hêng Wei *see* **Lai, K'un Ts'ai; et al.,** (Not in MR)
Vaccaro, U. *see* **Capocelli, R. M.; et al., 89a:94003**
Vargas, M. *see* **Popovici, A., (89a:94001)**
Veranov, P. Ye. *see* **Averochkin, V. A.; et al., 89c:94005**
Wan, Yongbing (*with* Fahmy̆, Moustafa M.) Design of N-D digital filters with finite wordlength coefficients. (Not in MR)
Wellstead, P. E. (*with* Caldas Pinto, J. R.) Self-tuning filters and predictors for two-dimensional systems. (*see* **89b:94004**)
Xu, Min^2 *see* **Zhu, Hua,** (Not in MR)
Yang, Rong Huan (*with* Liu, Bede; Lim, Y. C.) A new structure of sharp transition FIR filters using frequency-response masking. **89d:94006**
Zetterberg, Lars H. (*with* Johansson, Anders) Approximation of recursively estimated AR-parameters for speech encoding. (*see* **89b:93008**)
Zhu, Hua (*with* Xu, Min^2) The ARPE method for estimating power spectra. (Chinese. English summary) (Not in MR)
Zyuzin, M. V. An algorithm for constructing high-quality bandpass filters. **89a:94006**

Items with secondary classifications in 94A05

Abutaleb, Ahmed S. An adaptive filter for noise cancelling. (Not in MR)
Adams, John W. *see* **Medlin, Gregory W.; et al., 89g:94009**
Alakoz, G. M. (*with* Baryutina, T. L.; Vol′pert, L. A.) Implementation of digital signal processing devices in array-programmable homogeneous media. (Russian) (*see* **89g:94002**)
Alexander, Winser E. Spatial domain filters for image processing. **89b:93104**
Anderson, B. D. O. *see* **Sethares, W. A.; et al.,** (Not in MR)
Antonio, John K. *see* **Tsai, Wei K.; et al., 89k:65079**
Baryutina, T. L. *see* **Alakoz, G. M.; et al., (89g:94002)**
Basharin, G. P. (*with* Kurenkov, B. E.) The analysis of redundant flows in channel switching networks. (Russian) **89e:90094**
Bekenstein, Jacob D. Communication and energy. **89h:81061**
Bitmead, Robert R. *see* **Sethares, W. A.; et al.,** (Not in MR)
Borovkov, A. A. Asymptotic analysis of communication networks. **89a:60243**
Cattermole, Kenneth W. ★ Mathematical foundations for communication engineering. Vol. 2. **89c:94001**
Cham, W. K. *see* **Clarke, Roger John, 89d:94007**
Clarke, Roger John (*with* Cham, W. K.) The principle of dyadic symmetry and the generation of simple, high efficiency transforms for image processing. **89d:94007**
(Cover, Thomas M.) *see* **Open problems in communication and computation, 89c:94003**
Doncarli, C. *see* **Goerig, L., (89c:00031)**
Drauschke, Gabriele (*with* Tasche, Manfred) Exact deconvolution using number-theoretic transforms. **89i:65044**
Elishakoff, I. Measurement of characteristics of stationary random processes. **89g:60132**
Falin, G. I. Calculation of a hybrid switching system with a floating threshold in the presence of buffers. **89k:90067**
Friedlander, B. *see* **Stoica, Petre; et al., 89c:62162** *and* (Not in MR)
Gallager, Robert G. Finding parity in a simple broadcast network. (Not in MR)
Games, Richard A. An algebraic construction of sonar sequences using M-sequences. **89e:05067**
Gingras, Donald F. (*with* Masry, Elias) Autoregressive spectral estimation in additive noise. **89f:62076**
Goerig, L. (*with* Doncarli, C.) Lissage-détection de signaux non stationnaires. (English summary) [Smoothing and detection of nonstationary signals] (*see* **89c:00031**)
(Gopinath, B.) *see* **Open problems in communication and computation, 89c:94003**
Hajek, Bruce (*with* Sasaki, Galen) Link scheduling in polynomial time. **89m:90085**
Huang, Garng *see* **Tsai, Wei K.; et al., 89k:65079**
Huang, Thomas S. Determining three-dimensional motion and structure from two perspective views. **89e:92052**
Ishida, Masayuki *see* **Kikkawa, Sho, 89a:60120**
Jacobsen, Søren B. The rearrangement process in a two-stage broadcast switching network. **89g:90096**
Johnson, C. Richard, Jr. *see* **Sethares, W. A.; et al.,** (Not in MR)
(Kesler, Stanislav B.) *see* **Modern spectrum analysis, 89d:94001**
(Khargonekar, Pramod P.) *see* **Ortega, Romeo,** (Not in MR)
Kikkawa, Sho (*with* Ishida, Masayuki) Number of degrees of freedom, correlation times, and equivalent bandwidths of a random process. **89a:60120**
King, P. J. B. *see* **Robert, Philippe; et al., 89g:60273**
Kostelich, Eric J. (*with* Yorke, James A.) Noise reduction in dynamical systems. **89i:58091**
(Krause, James M.) *see* **Ortega, Romeo,** (Not in MR)
Kreĭnin, A. Ya. *see* **Vaĭnshteĭn, A. D., 89g:60312**
Kurenkov, B. E. *see* **Basharin, G. P., 89e:90094**
Leondes, Cornelius T. *see* **Medlin, Gregory W.; et al., 89g:94009**
Levchenkov, V. S. Dynamic justification of the entropy approach for a class of communications systems. (Russian. English summary) **89f:90052**
Li, Wentian Errata: "Power spectra of regular languages and cellular automata" [Complex Systems **1** (1987), no. 1, 107–130]. (Not in MR)
Liestman, Arthur L. *see* **Richards, Dana S., 89f:90055**
Liu, Vincent C. (*with* Vaidyanathan, P. P.) Circulant and skew-circulant matrices as new normal-form realization of IIR digital filters. (Not in MR)
Mareels, I. M. Y. *see* **Sethares, W. A.; et al.,** (Not in MR)
Masry, Elias *see* **Gingras, Donald F., 89f:62076**
Medlin, Gregory W. (*with* Adams, John W.; Leondes, Cornelius T.) Lagrange multiplier approach to the design of FIR filters for multirate applications. **89g:94009**
Mitrani, I. *see* **Robert, Philippe; et al., 89g:60273**
(Moscardini, A. O.) *see* **Mathematical modelling for information technology, 89b:94003**
Ortega, Romeo Comments on: "Parameter information content of measurable signals in direct adaptive control" [IEEE Trans. Automat. Control **32** (1987), no. 9, 802–810] by J. M. Krause and P. P. Khargonekar. (Not in MR)
Papadimitriou, Christos H. (*with* Ullman, Jeffrey D.) A communication-time tradeoff. **89a:68078**
Picard, Jean An estimate of the error in time discretization of nonlinear filtering problems. **89c:93076**
Richards, Dana S. (*with* Liestman, Arthur L.) Generalizations of broadcasting and gossiping. **89f:90055**
Robert, Philippe (*with* Mitrani, I.; King, P. J. B.) An intermittently served discrete time queue with applications to meteor scatter communications. **89g:60273**
(Robson, E. H.) *see* **Mathematical modelling for information technology, 89b:94003**
Sasaki, Galen *see* **Hajek, Bruce, 89m:90085**
Sennott, Linn I. Conditions for the nonergodicity of Markov chains with application to a communication system. **89g:60209**
Sethares, W. A. (*with* Mareels, I. M. Y.; Anderson, B. D. O.; Johnson, C. Richard, Jr.; Bitmead, Robert R.) Excitation conditions for signed regressor least mean squares adaptation. (Not in MR)
Shipunov, A. V. *see* **Zhozhikashvili, V. A.; et al., 89j:90112**
Sims, Craig S. A class of reduced order filters designed for state dependent noise. (*see* **89c:00031**)
Söderström, Torsten *see* **Stoica, Petre; et al., 89c:62162** *and* (Not in MR)
Stoica, Petre (*with* Friedlander, B.; Söderström, Torsten) Asymptotic bias of the high-order autoregressive estimates of sinusoidal frequencies. **89c:62162**
— (*with* Friedlander, B.; Söderström, Torsten) A high-order Yule-Walker method for estimation of the AR parameters of an ARMA model. (Not in MR)
Tasche, Manfred *see* **Drauschke, Gabriele, 89i:65044**
Tsai, Wei K. (*with* Huang, Garng; Antonio, John K.; Tsai, Wei T.) Distributed iterative aggregation algorithms for box-constrained minimization problems and optimal routing in data networks. **89k:65079**
Tsai, Wei T. *see* **Tsai, Wei K.; et al., 89k:65079**
Tverdokhlebov, A. S. *see* **Zhozhikashvili, V. A.; et al., 89j:90112**
Ullman, Jeffrey D. *see* **Papadimitriou, Christos H., 89a:68078**
Vaidyanathan, P. P. *see* **Liu, Vincent C.,** (Not in MR)
Vaĭnshteĭn, A. D. (*with* Kreĭnin, A. Ya.) Transformations of the Poisson flow and their application to communication systems. (Russian) **89g:60312**
Vasilenko, V. A. (*with* Zyuzin, M. V.) Application of operators with piecewise-constant kernels to digital processing of data. **89b:94005**
Vazirani, Umesh V. Strong communication complexity or generating quasirandom sequences from two communicating semirandom sources. **89f:68031**
Verriest, Erik A unified theory of model reduction via Gleason measures. **89c:93020**
Vitányi, Paul M. B. Locality, communication, and interconnect length in multicomputers. **89h:68074**
Vol′pert, L. A. *see* **Alakoz, G. M.; et al., (89g:94002)**
Weinstein, Ehud (*with* Weiss, Anthony J.) A general class of lower bounds in parameter estimation. **89c:93070**
— Relations between Belini-Tartara, Chazan-Zakai-Ziv, and Wax-Ziv lower bounds. (Not in MR)
Weiss, Anthony J. *see* **Weinstein, Ehud, 89c:93070**
Yorke, James A. *see* **Kostelich, Eric J., 89i:58091**
Zhozhikashvili, V. A. (*with* Tverdokhlebov, A. S.; Shipunov, A. V.) An algorithm for the solution of an optimization problem for bottlenecks in systems of message processing and transmission. **89j:90112**
Zyuzin, M. V. *see* **Vasilenko, V. A., 89b:94005**

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Conference:
Modelling for the Communication Industries ★ Mathematical modelling for information technology. **89b:94003**
Mathematical modelling for information technology ★ Mathematical modelling for information technology. **89b:94003**
Modern spectrum analysis ★ Modern spectrum analysis. II. **89d:94001**
Open problems in communication and computation ★ Open problems in communication and computation. **89c:94003**
Sunderland ★ Mathematical modelling for information technology. **89b:94003**

94A11 Application of orthogonal functions in communication

Afanas′ev, V. B. (*with* Grushko, I. I.) Rapid Fourier transform algorithms for the fields GF(2^m). (Russian) **89f:94003**
Agayan, S. S. (*with* Egiazaryan, K. O.) A new class of transformations in the theory of the processing of discrete signals. (Russian. English summary) **89i:94004**
Akansu, Ali N. *see* **Haddad, Richard A., 89i:94005**
Amirat, Cherif (*with* Chirlian, Paul M.) Effective bandwidth of 2-D functions that can be expressed as a linear combination of orthogonal functions. (Not in MR)
Anderson, B. D. O. (*with* Green, Michael B.) Hilbert transform and gain/phase error bounds for rational functions. **89k:94005**
— *see also* **Sethares, W. A.; et al.,** (Not in MR)

Arro, I. An algorithm for the reduced calculation of the discrete cosine Fourier transform. (Russian) (Not in MR)

(Basch, Michal) *see* **Vích, Robert, 89g:94006**

Birdsall, Theodore G. (*with* Bold, Gary E. J.) Minimum bandwidth interpolation of real discrete data. (Not in MR)

Bitmead, Robert R. *see* **Sethares, W. A.; et al.**, (Not in MR)

Bold, Gary E. J. *see* **Birdsall, Theodore G.**, (Not in MR)

Brander, O. *see* **DeFacio, B., 89c:94009**

Bruton, L. T. *see* **Liu, Qingli, 89k:94006**

Cham, W. K. *see* **Clarke, Roger John, 89d:94007**

Chirlian, Paul M. *see* **Amirat, Cherif**, (Not in MR)

Clarke, Roger John (*with* Cham, W. K.) The principle of dyadic symmetry and the generation of simple, high efficiency transforms for image processing. **89d:94007**

Daubechies, Ingrid Time-frequency localization operators: a geometric phase space approach. (Not in MR)

DeFacio, B. (*with* Brander, O.) Information, uncertainty and the singular value decomposition of the filtered Fourier transformation. **89c:94009**

Duhamel, Pierre Raymond (*with* Hollmann, H.) On discrete Fourier transforms (number-theoretic transforms) with minimum number of rotations (shifts). (French and German summaries) **89d:94008**

— *see also* **Vetterli, Martin, 89k:94007**

Egiazaryan, K. O. *see* **Agayan, S. S., 89i:94004**

Goutis, C. E. *see* **Ibrahim, M. K., (89b:94004)**

Green, Michael B. *see* **Anderson, B. D. O., 89k:94005**

Grushko, I. I. *see* **Afanas′ev, V. B., 89f:94003**

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Heideman, Michael T. ★ Multiplicative complexity, convolution, and the DFT. **89i:94006**

Heinen, James A. (*with* Siddique, Bari M. A.) A simple algorithm for arbitrary polynomial transformation. **89g:94004**

Hollmann, H. *see* **Duhamel, Pierre Raymond, 89d:94008**

Hoskins, Roy Frank (*with* de Sousa Pinto, J.) Generalised sampling expansions using Taylor coefficients. **89c:94010**

Ibrahim, M. K. (*with* Goutis, C. E.) New recursive algorithm for maximum likelihood Toeplitz covariance matrix estimation. (*see* **89b:94004**)

Ikebe, Yasuhiko *see* **Kamada, Masaru; et al., 89m:94004**

Imiya, Atsushi (*with* Sasaki, Toshio; Ogawa, Hidemitsu) Signal smoothing by summation—generalized Fejér method and generalized Lanczos method. **89j:94005**

Ipatov, V. P. (*with* Kamaletdinov, B. Zh.) Ensembles of p-ary sequences of bent functions. **89d:94009**

Janssen, A. J. E. M. The Zak transform: a signal transform for sampled time-continuous signals. **89g:94005**

Jiang, Zeng Rong Polynomial transforms with modulus $z^{2q} - z^q + 1$. (Chinese. English summary) **89i:94007**

Johnson, C. Richard, Jr. *see* **Sethares, W. A.; et al.**, (Not in MR)

Kamada, Masaru (*with* Toraichi, Kazuo; Ikebe, Yasuhiko; Mori, Ryoichi) Orthonormal basis for spline signal spaces. **89m:94004**

Kamaletdinov, B. Zh. An optimal ensemble of binary sequences based on the union of ensembles of Kasami sequences and bent functions. **89h:94001**

— *see also* **Ipatov, V. P., 89d:94009**

Kanchan, V. R. *see* **Venkataraman, S.; et al.**, (Not in MR)

Liu, Qingli (*with* Bruton, L. T.) Design of 3-D planar and beam recursive digital filters using spectral transformations. **89k:94006**

Losev, V. V. Decoding of sequences of Bent functions by means of a fast Hadamard transform. **89d:94010**

Mareels, I. M. Y. *see* **Sethares, W. A.; et al.**, (Not in MR)

Mohanty, M. *see* **Venkataraman, S.; et al.**, (Not in MR)

Mori, Ryoichi *see* **Kamada, Masaru; et al., 89m:94004**

Nohara, Kazuo Efficient algorithms for piecewise-linear transform and its inverse. (French and German summaries) **89d:94011**

Ogawa, Hidemitsu *see* **Imiya, Atsushi; et al., 89j:94005**

Poletti, Mark A. The development of a discrete transform for the Wigner distribution and ambiguity function. **89f:94004**

Rao, Kamisetty Ramamohan *see* **Venkataraman, S.; et al.**, (Not in MR)

Sasaki, Toshio *see* **Imiya, Atsushi; et al., 89j:94005**

Sasse, A. G. B. M. *see* **Wormeester, H.; et al., 89k:94008**

Sethares, W. A. (*with* Mareels, I. M. Y.; Anderson, B. D. O.; Johnson, C. Richard, Jr.; Bitmead, Robert R.) Excitation conditions for signed regressor least mean squares adaptation. (Not in MR)

Siddique, Bari M. A. *see* **Heinen, James A., 89g:94004**

van Silfhout, A. *see* **Wormeester, H.; et al., 89k:94008**

Solopko, I. O. (*with* Zayats, V. V.) A hybrid method for the isolation of a polynomial-trigonometric trend. (Russian) **89d:94012**

de Sousa Pinto, J. *see* **Hoskins, Roy Frank, 89c:94010**

Toraichi, Kazuo *see* **Kamada, Masaru; et al., 89m:94004**

Trachtenberg, E. A. A remarkable discrete unitary transform. (*see* **89b:94004**)

Vasilenko, V. A. (*with* Zyuzin, M. V.) Application of operators with piecewise-constant kernels to digital processing of data. **89b:94005**

Venkataraman, S. (*with* Kanchan, V. R.; Rao, Kamisetty Ramamohan; Mohanty, M.) Discrete transforms via the Walsh-Hadamard transform. (French and German summaries) (Not in MR)

Vetterli, Martin (*with* Duhamel, Pierre Raymond) Split-radix algorithms for length-p^m DFTs. **89k:94007**

Vích, Robert ★ $\mathcal{Z}$ transform theory and applications. **89g:94006**

Wormeester, H. (*with* Sasse, A. G. B. M.; van Silfhout, A.) Deconvolution, differentiation and Fourier transformation algorithms for noise-containing data based on splines and global approximation. **89k:94008**

Yang, Gan Ning (*with* Zhu, Jin Kang) A construction of orthogonal Bent sequences and an analysis of their properties. (Chinese) (Not in MR)

Zayats, V. V. *see* **Solopko, I. O., 89d:94012**

Zhu, Jin Kang *see* **Yang, Gan Ning**, (Not in MR)

Zyuzin, M. V. *see* **Vasilenko, V. A., 89b:94005**

Items with secondary classifications in 94A11

Adhami, Reza (*with* Polge, Robert J.) Fast Fourier transformation based on number-theoretic transforms. **89f:65137**

Aizenberg, L. A. An analogue of Kotel′nikov's theorem for nonuniform readings. Extrapolation and interpolation of the amplitude of the Fourier spectrum of finite signals. **89h:94002**

Ansari, Rashid *see* **Çetin, A. Enis, 89i:94008**

Barnett, Stephen *see* **Gover, M. J. C., 89e:15008**

Belov, B. I. A new optimization characterization for orthogonal polynomials. (Russian) **89a:42031**

Ben-Tal, A. (*with* Borwein, J. M.; Teboulle, M.) A dual approach to multidimensional L_p spectral estimation problems. **89i:49008**

Bilardi, Gianfranco (*with* Sarrafzadeh, Majid) Optimal VLSI circuits for the discrete Fourier transform. **89d:68037**

Bistritz, Yuval (*with* Kailath, Thomas) Inversion and factorization of non-Hermitian quasi-Toeplitz matrices. **89b:65067**

Borwein, J. M. *see* **Ben-Tal, A.; et al., 89i:49008**

Carlson, David A. Upper and lower bounds on time-space tradeoffs for computations with embedded fast Fourier transforms. **89d:68026**

Çetin, A. Enis (*with* Ansari, Rashid) Convolution-based framework for signal recovery and applications. **89i:94008**

Clarkson, P. M. Analysis of the LMS adaptive filter applied to periodic signals. **89c:94011**

Daubechies, Ingrid Discrete sets of coherent states and their use in signal analysis. **89c:94012**

De Moor, Bart (*with* Vandewalle, Joos) An adaptive singular value decomposition algorithm based on generalized Chebyshev recursions. **89e:65043**

Eswaran, C. *see* **Prasad, K. S.**, (Not in MR)

Freeman, Mark O. (*with* Saleh, Bahaa E. A.) Moment invariants in the space and frequency domains. **89g:65174**

Frydrychowicz, Stephan ★ Anwendung der Gruppentheorie auf Probleme der Mustererkennung. (German) [Application of group theory to problems of pattern recognition] **89f:68058**

Genin, Yves On a duality relation in the theory of orthogonal polynomials and its application in signal processing. **89m:42019**

Gover, M. J. C. (*with* Barnett, Stephen) New algorithms for inversion of Toeplitz-like patterned matrices. **89e:15008**

Gregor, Jiří The multidimensional z-transform and its use in solution of partial difference equations. **89g:44008**

Hamada, Hiroshi *see* **Morikawa, Yoshitaka; et al.**, (Not in MR)

Jerri, Abdul J. An extended Poisson type sum formula for general transforms and aliasing error bound for the generalized sampling theorem. **89d:44001**

Kailath, Thomas *see* **Bistritz, Yuval, 89b:65067**

Kim, Jaeseok (*with* McDonald, John F.) Transient and crosstalk analysis of slightly lossy interconnection lines for wafer scale integration and wafer scale hybrid packaging—weak coupling case. (Not in MR)

Krot, A. M. (*with* Minervina, E. B.) Synthesis of digital Fourier transformation algorithms for real sequences on the basis of polynomial algebra. **89i:68059**

Mănescu, O. *see* **Stanomir, D., 89d:94016**

Marple, S. Lawrence, Jr. ★ Digital spectral analysis with applications. **89c:93001**

Massey, James L. (*with* Schaub, Thomas) Linear complexity in coding theory. **89m:94021**

— *see also* **Xiao, Guo Zhen, 89f:94019**

McDonald, John F. *see* **Kim, Jaeseok**, (Not in MR)

Minervina, E. B. *see* **Krot, A. M., 89i:68059**

Moraru, A. A new decomposition method in orthogonal components for periodic operation of electrical networks. **89k:94088**

Morikawa, Yoshitaka (*with* Hamada, Hiroshi; Yamane, Nobumoto) A fast algorithm for the cosine transform based on successive order reduction of the Chebyshev polynomial. (Not in MR)

Neagoe, V.-E. Optimum discrete representation of signals. II. Discrete Legendre transform and its application for signal interpolation. (Romanian summary) **89g:94010**

Polge, Robert J. *see* **Adhami, Reza, 89f:65137**

Pott, Alexander Applications of the DFT to abelian difference sets. **89m:05021**

Prasad, K. S. (*with* Eswaran, C.) Limit-cycle free complex biquad recursive digital filters. (Not in MR)

Saleh, Bahaa E. A. *see* **Freeman, Mark O., 89g:65174**

Sarrafzadeh, Majid *see* **Bilardi, Gianfranco, 89d:68037**

Schaub, Thomas *see* **Massey, James L., 89m:94021**

Schempp, Walter The oscillator representation of the metaplectic group applied to quantum electronics and computerized tomography. **89k:22013**

Stanomir, D. (*with* Mănescu, O.) Signal restoration by the use of the singular value analysis. I. (Romanian summary) **89d:94016**

Teboulle, M. *see* **Ben-Tal, A.; et al., 89i:49008**

Vandewalle, Joos *see* **De Moor, Bart, 89e:65043**

Vetterli, Martin Invertibility of linear periodically time-varying filters. (Not in MR)

Wang, Lin (*with* Yang, Fu Sheng) An extension of the DFT and the fast Prony algorithm. (Chinese. English summary) (Not in MR)

Xiao, Guo Zhen (*with* Massey, James L.) A spectral characterization of correlation-immune combining functions. **89f:94019**

Yamane, Nobumoto *see* **Morikawa, Yoshitaka; et al.**, (Not in MR)

Yang, Fu Sheng *see* **Wang, Lin**, (Not in MR)

94A12 Characterization of signals

Abo-Zahhad, Mohammed *see* **Fahmy, Mamdouh F.; et al.**, (Not in MR)

Adams, John W. *see* **Medlin, Gregory W.; et al., 89g:94009**

Ahmadi, M. *see* **Erfani, S.; et al.**, (Not in MR)

Aĭzenberg, L. A. An analogue of Kotel′nikov's theorem for nonuniform readings. Extrapolation and interpolation of the amplitude of the Fourier spectrum of finite signals. **89h:94002**
Angwin, Denise L. (*with* Kaufman, Howard) Image restoration using reduced order models. (French and German summaries) (*see* **89j:94003**)
Ansari, Rashid *see* **Çetin, A. Enis, 89i:94008**
Araki, Kiyomichi Sampling and recovery formula in finite Hankel transform based on the minimum-norm principle. **89h:94003**
Barber, B. C. Analysis of binary quantisation effects in the processing of chirp and synthetic aperture radar signals. (*see* **89b:94004**)
Baskurt, A. (*with* Goutte, R.) Analytic signal reconstruction from instantaneous phase. (French and German summaries) (Not in MR)
Bauer, Peter (*with* Jury, E. I.) Stability analysis of multidimensional (m-D) direct realization digital filters under the influence of nonlinearities. **89j:94006**
Beex, A. A. (Louis) *see* **DeBrunner, Victor E.**, (**89f:00025**)
Begmatov, I. A. (*with* Burnashev, M. V.) Detection of orthogonal signals in Gaussian white noise. (Russian) (Not in MR)
Benslimane, Acyl *see* **Siohan, Pierre**, (Not in MR)
Bertero, M. *see* **Pike, E. R.; et al.**, (**89b:94004**)
Bessarabenko, K. V. *see* **Gorbenko, I. D.; et al.**, (Not in MR)
Böhme, Johann F. Parameter estimation in array processing. (*see* **89a:94002**)
Bomar, Bruce W. *see* **Smith, L. Montgomery, 89i:94010**
Boudaoud, M. (*with* Chaparro, L. F.) Composite modeling of nonstationary signals. **89d:94013**
Bruton, L. T. *see* **Lin, Zhi Ping, 89k:94011**
Burnashev, M. V. *see* **Begmatov, I. A.**, (Not in MR)
Butzer, Paul L. (*with* Splettstösser, W.; Stens, R. L.) The sampling theorem and linear prediction in signal analysis. **89b:94006**
Çetin, A. Enis (*with* Ansari, Rashid) Convolution-based framework for signal recovery and applications. **89i:94008**
Chang, Jiong *see* **Xu, Lei; et al.**, (Not in MR)
Chaparro, L. F. *see* **Boudaoud, M., 89d:94013**
Clarkson, P. M. Analysis of the LMS adaptive filter applied to periodic signals. **89c:94011**
Daubechies, Ingrid Discrete sets of coherent states and their use in signal analysis. **89c:94012**
Dayan, R. È. A problem of estimating the parameter of a signal on a background of white noise. (Russian. Armenian summary) (Not in MR)
DeBrunner, Victor E. (*with* Beex, A. A. (Louis)) Sensitivity analysis of digital filter structures. (*see* **89f:00025**)
Defrise, M. *see* **Pike, E. R.; et al.**, (**89b:94004**)
De Mol, C. *see* **Pike, E. R.; et al.**, (**89b:94004**)
Demoment, G. *see* **Saint-Félix, D.; et al.**, (**89b:94004**) *and* **Mohammad-Djafari, Ali**, (**89f:62002**)
Du, X. C. *see* **Saint-Félix, D.; et al.**, (**89b:94004**)
Dyka, A. *see* **Ugowski, Henryk, 89k:94015**
Engels, Wolfgang (*with* Stark, E. L.; Vogt, L.) On the application of an optimal spline sampling theorem. (French and German summaries) (Not in MR)
Erfani, S. (*with* Ahmadi, M.; Ramachandran, Venkat) The general biquadratic transformation of polynomials. (Not in MR)
Ermolaev, V. A. Variational synthesis of the input signals of nonlinear filters from their response at a fixed instant of time. **89d:94014**
Fahmy, Mamdouh F. (*with* Abo-Zahhad, Mohammed; Sobhy, M. I.) Design of selective linear phase bandpass switched-capacitor filters with equiripple passband amplitude response. (Not in MR)
Fahmy̌, Moustafa M. *see* **Peters, S. Douglas**, (Not in MR)
Foiaş, Ciprian (*with* Frazho, Arthur E.; Sherman, P. J.) A geometric approach to the maximum likelihood spectral estimator for sinusoids in noise. **89m:94005**
Frazho, Arthur E. *see* **Foiaş, Ciprian; et al., 89m:94005**
Galickas, Aleksandras Comparative analysis of interpolation models of stationary signals. (Russian. Lithuanian summary) **89k:94009**
Gnanasekaran, R. Equivalence of block and N-path implementations of digital filters. (Not in MR)
Gorbenko, I. D. (*with* Zamula, A. A.; Bessarabenko, K. V.) Accelerated algorithms for forming systems of characteristic discrete signals. (Russian) (Not in MR)
Goutis, C. E. *see* **Leahy, R. M.**, (**89b:94004**)
Goutte, R. *see* **Baskurt, A.**, (Not in MR)
Grinchenko, S. T. (*with* Tarankova, N. D.) Analysis of the characteristics of the element-by-element reception of binary signals. **89g:94007**
Grunin, V. K. (*with* Kiselev, N. V.; Kurtser, G. M.; Yakubovskiĭ, E. G.) An algorithm for estimating the parameters of the regular and irregular components of an echo signal in a classification problem. (Russian) **89g:94008**
Hamanaka, Takashi *see* **Hinamoto, Takao; et al.**, (Not in MR)
Haykin, Simon Modern signal processing. (*see* **89a:94002**)
Higgins, J. R. A fresh approach to the derivative sampling theorem. **89c:94013**
Hinamoto, Takao (*with* Hamanaka, Takashi; Maekawa, Sadao) A generalized study on the synthesis of 2-D state-space digital filters with minimum roundoff noise. (Not in MR)
Høholdt, Tom *see* **Jensen, H. Elbrønd; et al., 89k:94010**
In′kov, A. V. Estimation of unknown frequencies of harmonics from observations on noisy signal realizations. (Russian. English summary) (Not in MR)
Itahshi, Shuichi *see* **Toraichi, Kazuo; et al.**, (Not in MR)
Ivakhnenko, A. G. (*with* Kritskiĭ, A. P.) Regularization of solutions in the problem of signal recognition using the locus of the minima of the maximum likelihood criterion. (Not in MR)
Iwazumi, Tetsuo *see* **Ohashi, Yuichi; et al., 89e:94003**
Janowitz, M. F. A model for ordinal filtering of digital images. **89b:94007**
Janssen, A. J. E. M. Positivity of time-frequency distribution functions. (French and German summaries) **89d:94015**
Jarske, Petri (*with* Neuvo, Yrjö; Mitra, Sanjit K.) A simple approach to the design of linear phase FIR digital filters with variable characteristics. (French and German summaries) (Not in MR)
Jensen, H. Elbrønd (*with* Høholdt, Tom; Justesen, Jørn) Double series representation of bounded signals. **89k:94010**
Jury, E. I. *see* **Bauer, Peter, 89j:94006**
Justesen, Jørn *see* **Jensen, H. Elbrønd; et al., 89k:94010**
Kalugin, P. A. (*with* Kuz′min, A. B.; Shramko, V. I.) The principle of absolute invariance in the functional control of information systems. (Russian. English summary) (Not in MR)
Kamada, Masaru *see* **Toraichi, Kazuo; et al.**, (Not in MR)
Kando, Hisashi *see* **Ohashi, Yuichi; et al., 89e:94003**
Kassam, Saleem A. *see* **Peterson, Steven R.; et al.**, (Not in MR)
Kaufman, Howard *see* **Angwin, Denise L.**, (**89j:94003**)
Khlobystov, V. V. (*with* Vinokurov, Yu. O.) Determining source coordinates of signals from phase measurements in a near field with an arbitrary distribution of measuring devices. (Russian) (Not in MR)
Kida, Takuro The optimum interpolatory approximation of waves using time limited interpolation functions. **89m:94006**
Kiselev, N. V. *see* **Grunin, V. K.; et al., 89g:94008**
Kopilovich, L. E. On signals with a minimum indeterminacy function for simultaneous determination of the range and velocity of an object. (Not in MR)
Kowalski, Marek A. Optimal complexity recovery of band- and energy-limited signals. **89i:94009**
Kritskiĭ, A. P. *see* **Ivakhnenko, A. G.**, (Not in MR)
Kubyshkina, N. N. *see* **Sharadkin, A. M.; et al.**, (Not in MR)
Kurtser, G. M. *see* **Grunin, V. K.; et al., 89g:94008**
Kuz′min, A. B. *see* **Kalugin, P. A.; et al.**, (Not in MR)
Kwan, Hon Keung (*with* Lui, Ying Chun) Lattice implementation of two-dimensional recursive digital filters. (Not in MR)
Leahy, R. M. (*with* Goutis, C. E.) Optimal feasible solutions for signal restoration and reconstruction. (*see* **89b:94004**)
Lee, Jae Chon (*with* Un, Chong Kwan) Performance analysis of frequency-domain block LMS adaptive digital filters. (Not in MR)
Lee, Ju-Hong Two-dimensional block implementation of symmetric half-plane recursive digital filters. (Not in MR)
Lee, Yong Hoon *see* **Peterson, Steven R.; et al.**, (Not in MR)
Lehner, D. *see* **Rank, K.; et al., 89j:94009**
Leondes, Cornelius T. *see* **Medlin, Gregory W.; et al., 89g:94009**
Levy, Bernard C. *see* **Tewfik, Ahmed H.; et al., 89k:94014**
Li, Yan Da (*with* Ning, Bo) The effect of sampling frequency in signal reconstruction from the spectral magnitude and some samples. (Chinese. English summary) (Not in MR)
Li, Yue *see* **Newhouse, V. L.; et al.**, (**89a:94002**)
Lin, Ho-Ming (*with* Willson, Alan N., Jr.) Median filters with adaptive length. (Not in MR)
Lin, Zhi Ping (*with* Bruton, L. T.) BIBO stability of inverse 2-D digital filters in the presence of nonessential singularities of the second kind. **89k:94011**
Liu, Vincent C. (*with* Vaidyanathan, P. P.) Circulant and skew-circulant matrices as new normal-form realization of IIR digital filters. (Not in MR)
— *see also* **Vaidyanathan, P. P.**, (Not in MR)
Lui, Ying Chun *see* **Kwan, Hon Keung**, (Not in MR)
Maekawa, Sadao *see* **Hinamoto, Takao; et al.**, (Not in MR)
Mănescu, O. *see* **Stanomir, D., 89d:94016**
McGee, W. F. Fundamental relations between LMS spectrum analyzer and recursive least squares estimation. (Not in MR)
Medlin, Gregory W. (*with* Adams, John W.; Leondes, Cornelius T.) Lagrange multiplier approach to the design of FIR filters for multirate applications. **89g:94009**
Mednieks, I. B. (*with* Mikelson, A. K.) Peculiarities of the application of pseudostochastic discretization. (Russian) **89j:94007**
Mikelson, A. K. *see* **Mednieks, I. B., 89j:94007**
Mikhael, Wasfy B. (*with* Wu, Frank H.) A fast block FIR adaptive digital filtering algorithm with individual adaptation of parameters. **89j:94008**
— (*with* Spanias, Andreas S.) Efficient modeling of dominant transform components representing time-varying signals. (Not in MR)
Mitra, Sanjit K. *see* **Jarske, Petri; et al.**, (Not in MR)
Mohammad-Djafari, Ali (*with* Demoment, G.) Image restoration and reconstruction using entropy as a regularization functional. (*see* **89f:62002**)
Molchanov, A. A. *see* **Sharadkin, A. M.; et al.**, (Not in MR)
Mori, Ryoichi *see* **Toraichi, Kazuo; et al.**, (Not in MR)
Mugler, D. H. (*with* Splettstösser, W.) Some new difference schemes for the prediction of bandlimited signals from past samples. (*see* **89b:94004**)
Nazarov, L. È. *see* **Smol′yaninov, V. M., 89k:94013**
Neagoe, V.-E. Optimum discrete representation of signals. II. Discrete Legendre transform and its application for signal interpolation. (Romanian summary) **89g:94010**
Neuvo, Yrjö *see* **Jarske, Petri; et al.**, (Not in MR)
Newhouse, V. L. (*with* Yu, Guo Yao; Li, Yue) A split spectrum processing method of scatterer density estimation. (*see* **89a:94002**)
Nie, Xiaoning (*with* Unbehauen, R.) A novel efficient algorithm for stability test by continued fraction expansion with application to 2-D digital filters. **89k:94012**
Ning, Bo *see* **Li, Yan Da**, (Not in MR)
Ohashi, Yuichi (*with* Kando, Hisashi; Ukai, Hiroyuki; Iwazumi, Tetsuo) Optimal design of FIR linear phase digital filters via convex quadratic programming method. **89e:94003**
Ovcharenko, O. V. An analytic signal and boundary value problems of analytic functions. (Russian) (Not in MR)
Pei, Soo Chang (*with* Shyu, Jong-Jy) Design of FIR Hilbert transformers and differentiators by eigenfilter. (Not in MR)
Peters, S. Douglas (*with* Fahmy̌, Moustafa M.) Synthesis of recursive LTV digital filters using the frozen-time approximation. (Not in MR)
Peterson, Steven R. (*with* Lee, Yong Hoon; Kassam, Saleem A.) Spectral performance characterizations of some generalized median filters. (Not in MR)
Pike, E. R. (*with* Bertero, M.; Defrise, M.; De Mol, C.) The use of singular systems and other inversion methods in weighted L^2-spaces. (*see* **89b:94004**)
Podkorytov, S. N. Minimax filtering of signals formed by nonstationary filters. **89g:94011**
Presnyakov, I. N. (*with* Sytnik, O. V.) A fast algorithm for joint spatial spectral processing of signals in antenna lattices. (Russian) (Not in MR)

Pyt'ev, Yu. P. (*with* Serdobol'skaya, M. L.) Reduction problems in the case of an unknown correlation operator. (Russian) (Not in MR)

Raffy, Marcel *see* **Ramstein, Gérard**, (Not in MR)

Ramachandran, Venkat *see* **Erfani, S.; et al.**, (Not in MR)

Ramstein, Gérard (*with* Raffy, Marcel) Restauration d'images par variogramme. (English summary) [Image restoration by variogram] (Not in MR)

Rank, K. (*with* Lehner, D.; Unbehauen, R.) On limit cycles in one- and multi-dimensional digital filters. **89j:94009**

Rybakov, A. S. Estimation of the temporary state of impulse signals on the basis of the digital processing of chronographic readings. (Russian) (*see* **89g:94002**)

Sabbagh, Harold A. *see* **Sabbagh, L. David**, (**89a:94002**)

Sabbagh, L. David (*with* Sabbagh, Harold A.) Eddy current modeling and signal processing in NDE. (*see* **89a:94002**)

Saint-Félix, D. (*with* Du, X. C.; Demoment, G.) Image restoration using a noncausal state space model and a fast 2-D Kalman filter. (*see* **89b:94004**)

Samueli, Henry On the design of optimal equiripple FIR digital filters for data transmission applications. (Not in MR)

Serdobol'skaya, M. L. *see* **Pyt'ev, Yu. P.**, (Not in MR)

Sharadkin, A. M. (*with* Molchanov, A. A.; Kubyshkina, N. N.) The influence of the error of discrete reading sampling on the representation of signals by means of a Kotel'nikov series. (Not in MR)

Sherman, P. J. *see* **Foiaş, Ciprian; et al.**, **89m:94005**

Shramko, V. I. *see* **Kalugin, P. A.; et al.**, (Not in MR)

Shyu, Jong-Jy *see* **Pei, Soo Chang**, (Not in MR)

Siohan, Pierre (*with* Benslimane, Acyl) Finite precision design of optimal linear phase 2-D FIR digital filters. (Not in MR)

Sivtsov, V. I. (*with* Tronnikov, A. I.) Estimates for the amplification coefficient that guarantees a specified static accuracy of multiply connected systems. (Russian. English summary) (Not in MR)

Skilling, John Maximum entropy spectroscopy—DIMES and MESA. (*see* **89f:62002**)

Smith, L. Montgomery (*with* Bomar, Bruce W.) An algorithm for constrained roundoff noise minimization in digital filters with application to two-dimensional filters. **89i:94010**

Smol'yaninov, V. M. Lower limit of the maximum modulus of the cross-correlation coefficients of discrete multiplicative group signals. (Not in MR)

— (*with* Nazarov, L. È.) Characteristics of spectral analysis for the recognition of discrete signals based on binary codes. **89k:94013**

Sobhy, M. I. *see* **Fahmy, Mamdouh F.; et al.**, (Not in MR)

Spanias, Andreas S. *see* **Mikhael, Wasfy B.**, (Not in MR)

Splettstösser, W. *see* **Butzer, Paul L.; et al.**, **89b:94006** *and* **Mugler, D. H.**, (**89b:94004**)

Stanomir, D. (*with* Mănescu, O.) Signal restoration by the use of the singular value analysis. I. (Romanian summary) **89d:94016**

Stark, E. L. *see* **Engels, Wolfgang; et al.**, (Not in MR)

Stark, Henry *see* **Yudilevich, E.**, **89k:94017**

Stasha, R. Ya. Isolation of a periodic signal from stationary noise. (Russian) (*see* **89g:94002**)

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Toraichi, Kazuo (*with* Kamada, Masaru; Itahshi, Shuichi; Mori, Ryoichi) Window functions obtained by convolution integrals of rectangular windows. (Not in MR)

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Un, Chong Kwan *see* **Lee, Jae Chon**, (Not in MR)

Unbehauen, R. *see* **Rank, K.; et al.**, **89j:94009**; **Nie, Xiaoning**, **89k:94012** *and* **Vlcek, Miroslav**, **89k:94016**

Vaidyanathan, P. P. (*with* Liu, Vincent C.) Classical sampling theorems in the context of multirate and polyphase digital filter bank structures. (Not in MR)

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Vetterli, Martin Invertibility of linear periodically time-varying filters. (Not in MR)

Vinokurov, Yu. O. *see* **Khlobystov, V. V.**, (Not in MR)

Vlcek, Miroslav (*with* Unbehauen, R.) Degree, ripple, and transition width of elliptic filters. **89k:94016**

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Wu, Frank H. *see* **Mikhael, Wasfy B.**, **89j:94008**

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Yakovlev, V. P. Filtering of a signal at the output of an analogue-to-digital converter. (Not in MR)

Yakubovskiĭ, E. G. *see* **Grunin, V. K.; et al.**, **89g:94008**

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Yu, Guo Yao *see* **Newhouse, V. L.; et al.**, (**89a:94002**)

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Basseville, M. Detecting changes in signals and systems—a survey. **89d:94018**

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Bobrovsky, B. Z. (*with* Zakai, Moshe; Zeitouni, O.) Error bounds for the nonlinear filtering of signals with small diffusion coefficients. **89m:93081**

Boite, René (*with* Kunt, Murat) ★ Traitement de la parole. (French) [Speech processing] **89f:94001**

Bovik, Alan Conrad *see* **Longbotham, Harold Gene**, **89k:93203**

Bruton, L. T. *see* **Liu, Qingli**, **89k:94006**

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Gray, Robert M. *see* **Chou, Philip A.; et al.**, **89k:94031**

Hartwell, Walter T. *see* **Picone, Joseph; et al.**, **89i:93106**

Heinen, James A. (*with* Siddique, Bari M. A.) A simple algorithm for arbitrary polynomial transformation. **89g:94004**

Hoskins, Roy Frank (*with* de Sousa Pinto, J.) Generalised sampling expansions using Taylor coefficients. **89c:94010**

Ivakhnenko, G. A. *see* **Kraskevich, V. E.; et al.**, (Not in MR)

Janssen, A. J. E. M. The Zak transform: a signal transform for sampled time-continuous signals. **89g:94005**

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— (*with* Ahamed, Syed V.) ★ Digital transmission systems and networks. Vol. II. **89c:94002b**
Minervina, E. B. *see* **Krot, A. M., 89i:68059**
Odlyzko, A. M. *see* **Alon, Noga; et al., 89i:94034**
Peikari, Behrouz *see* **El-Sharkawy, Mohamed A.,** (Not in MR)
Peng, Rong *see* **Rao, Bhaskar D., 89f:94002**
Peyrin, F. (*with* Goutte, R.; Amiel, M.) Description d'un algorithme de reconstruction de volume à partir de projections coniques par déconvolution tri-dimensionnelle. (English summary) [Description of a three-dimensional deconvolution reconstruction algorithm from cone beam projections] (Not in MR)
Picone, Joseph (*with* Prezas, Dimitrios P.; Hartwell, Walter T.; LoCicero, Joseph L.) Spectrum estimation using an analytic signal representation. (French and German summaries) **89i:93106**
Piterbarg, L. I. Nonparametric estimation of a signal on background noise with sharp peaks. **89i:62158**
Poletti, Mark A. The development of a discrete transform for the Wigner distribution and ambiguity function. **89f:94004**
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Prasanna Kumar, V. K. (*with* Sastry, Sarma) Efficient signal processing on a VLSI array. **89f:68032**
Prezas, Dimitrios P. *see* **Picone, Joseph; et al., 89i:93106**
Pupeikis, Rimantas Design of an optimal digital correcting filter in the presence of additive noise. (Russian. English and Lithuanian summaries) **89d:93109**
Ramm, A. G. Signal estimation from incomplete data. **89d:93094**
Rao, Bhaskar D. (*with* Peng, Rong) Tracking characteristics of the constrained IIR adaptive notch filter. **89f:94002**
Rao, Calyampuli Radhakrishna *see* **Khatri, C. G., 89k:62074**
Saint-Félix, D. *see* **Du, X. C.; et al., 89d:94020**
Sapegin, S. S. *see* **Zhigulev, V. N., 89e:68117**
Sastry, Sarma *see* **Prasanna Kumar, V. K., 89f:68032**
Schiff, J. L. (*with* Walker, W. J.) A sampling theorem and Wintner's results on Fourier coefficients. **89j:30004**
(Schur, I.) *see* **Kailath, Thomas, 89c:00051**
Siddique, Bari M. A. *see* **Heinen, James A., 89g:94004**
Solopko, I. O. (*with* Zayats, V. V.) A hybrid method for the isolation of a polynomial-trigonometric trend. (Russian) **89d:94012**
de Sousa Pinto, J. *see* **Hoskins, Roy Frank, 89c:94010**
Stens, R. L. *see* **Butzer, Paul L., 89i:42022**
Unbehauen, H. (*with* Prasada Rao, Ganti) ★ Identification of continuous systems. **89b:93050**
Vetterli, Martin (*with* Duhamel, Pierre Raymond) Split-radix algorithms for length-p^m DFTs. **89k:94007**
Volkov, E. A. (*with* Govorukhin, D. N.; Koval′skaya, L. V.; Yakovlenko, V. V.) An algorithm for the analysis of the steady-state mode of an electrical circuit with complex nonlinearities under polyharmonic action. (Russian. English summary) **89i:94053**
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Walter, Gilbert G. Sampling bandlimited functions of polynomial growth. **89h:42007**
Weinert, Howard L. *see* **Kayalar, Selahattin,** (Not in MR)
Xu, Lei (*with* Yan, Ping Fan; Chang, Tong) Semiblind deconvolution of finite length sequence. I. Linear problem. **89f:94007a**
— (*with* Yan, Ping Fan; Chang, Tong) Semiblind deconvolution of finite length sequence. II. Nonlinear problem. **89f:94007b**
Yakovlenko, V. V. *see* **Volkov, E. A.; et al., 89i:94053**
Yan, Ping Fan *see* **Xu, Lei; et al., 89f:94007a** *and* **89f:94007b**
Zakai, Moshe *see* **Bobrovsky, B. Z.; et al., 89m:93081**
Zayats, V. V. *see* **Solopko, I. O., 89d:94012**
Zeitouni, O. *see* **Bobrovsky, B. Z.; et al., 89m:93081**
Zhigulev, V. N. (*with* Sapegin, S. S.) Solution of frame reconstruction problem. **89e:68117**

94A13 Detection theory

Antonov, P. Ts. (*with* Demirev, G. D.) The design of codes for detecting two-dimensional error packages in parallel-sequential discrete channels. (Bulgarian. English and Russian summaries) (Not in MR)
Bahri, Z. (*with* Kumar, B. V. K. Vijaya) Generalized synthetic discriminant functions. **89b:94008**
Baker, C. R. (*with* Gualtierotti, A. F.) Likelihood ratios and signal detection for non-Gaussian processes. **89d:94017**
Basseville, M. Detecting changes in signals and systems—a survey. **89d:94018**
Begmatov, I. A. Asymptotic optimality for the likelihood ratio test in the case of minimax detection of a signal in Gaussian white noise. (Russian) **89k:94018**
Blake, Ian F. *see* **Wong, Benny C. Y., 89i:94013**
Chang, Tong *see* **Xu, Lei; et al., 89f:94007a** *and* **89f:94007b**
Chernyak, V. S. Space diversity detectors of fluctuating signals in the presence of spatially correlated interference. **89d:94019**
Christen, Claude A. Optimal contention among three senders. **89k:94019**
Davisson, Lee D. *see* **Flikkema, Paul G.,** (Not in MR)
Demirev, G. D. *see* **Antonov, P. Ts.,** (Not in MR)
Duvaut, Patrick *see* **Picinbono, Bernard, 89c:94014**
Fleisher, S. (*with* Singh, Hardish; Shwedyk, E.) A generalized two-threshold detection procedure. (Not in MR)
Flikkema, Paul G. (*with* Davisson, Lee D.) Detection of baseband signals using a delta modulator. (Not in MR)
Gualtierotti, A. F. *see* **Baker, C. R., 89d:94017**
Kassam, Saleem A. ★ Signal detection in non-Gaussian noise. **89f:94005**
Koval′, V. A. *see* **Vagapov, A. M.; et al.,** (Not in MR)
Kravets, L. G. *see* **Vagapov, A. M.; et al.,** (Not in MR)
Kumar, B. V. K. Vijaya *see* **Bahri, Z., 89b:94008**
Mal′tsev, Arkadiĭ Anatolievich (*with* Silaev, A. M.) Optimal detection of signals with random discontinuous parameter changes. **89i:94011**
Martinez, Andrew B. (*with* Thomas, John B.) Detector design using a density fit to non-Gaussian noise. (Not in MR)
Picinbono, Bernard (*with* Duvaut, Patrick) Optimal linear-quadratic systems for detection and estimation. **89c:94014**
Shwedyk, E. *see* **Fleisher, S.; et al.,** (Not in MR)
Silaev, A. M. *see* **Mal′tsev, Arkadiĭ Anatolievich, 89i:94011**
Singh, Hardish *see* **Fleisher, S.; et al.,** (Not in MR)
Tartakovskiĭ, A. G. Detection of signals with random times of appearance and disappearance. **89f:94006**
Thomas, John B. *see* **Martinez, Andrew B.,** (Not in MR)
Tsitsiklis, John N. Decentralized detection by a large number of sensors. **89a:94007**
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Walden, A. T. A comparison of stochastic gradient and minimum entropy deconvolution algorithms. (French and German summaries) **89i:94012**
Wong, Benny C. Y. (*with* Blake, Ian F.) Detector relative efficiency analysis in non-Gaussian noise. **89i:94013**
Xu, Lei (*with* Yan, Ping Fan; Chang, Tong) Semiblind deconvolution of finite length sequence. I. Linear problem. **89f:94007a**
— (*with* Yan, Ping Fan; Chang, Tong) Semiblind deconvolution of finite length sequence. II. Nonlinear problem. **89f:94007b**
Yan, Ping Fan *see* **Xu, Lei; et al., 89f:94007a** *and* **89f:94007b**

Items with secondary classifications in 94A13

Aigner, M. ★ Combinatorial search. **89k:68021**
Ali, S. M. (*with* Burge, R. E.) New automatic techniques for smoothing and segmenting SAR images. (French and German summaries) (Not in MR)
Anfinson, Cynthia J. (*with* Luk, Franklin T.) A linear algebraic model of algorithm-based fault tolerance. **89k:94055**
Basseville, M. (*with* Benveniste, A.; Moustakides, G.; Rougée, A.) Detection of abrupt changes in the modal characteristics of nonstationary vector signals. **89c:62149**
Bennett, Charles H. (*with* Brassard, Gilles; Robert, Jean-Marc) Privacy amplification by public discussion. **89c:94028**
Benveniste, A. *see* **Basseville, M.; et al., 89c:62149**
Brassard, Gilles *see* **Bennett, Charles H.; et al., 89c:94028**
Burge, R. E. *see* **Ali, S. M.,** (Not in MR)
Cattermole, Kenneth W. ★ Mathematical foundations for communication engineering. Vol. 2. **89c:94001**
Christen, Claude A. (*with* Hwang, F. K.) Detecting the two complementary defectives with a balance scale. **89a:05023**
Das, Sunil R. Adaptive scheduled experimentation and fault location in large combinational logic networks. (Not in MR)
Haykin, Simon Modern signal processing. (*see* **89a:94002**)
Hwang, F. K. *see* **Christen, Claude A., 89a:05023**
Kowalski, Marek A. Optimal complexity recovery of band- and energy-limited signals. **89i:94009**
Luce, Ethan Craig *see* **Viswanadham, N.; et al.,** (Not in MR)
Luk, Franklin T. *see* **Anfinson, Cynthia J., 89k:94055**
Moustakides, G. *see* **Basseville, M.; et al., 89c:62149**
Rao, Calyampuli Radhakrishna Some recent results in signal detection. **89d:62046**
Robert, Jean-Marc *see* **Bennett, Charles H.; et al., 89c:94028**
Rougée, A. *see* **Basseville, M.; et al., 89c:62149**
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Tsema, M. I. A method for the isolation of a given exponential component from the sum of exponential signals. (Russian. English summary) (Not in MR)
Tziritas, Georgios G. On the distribution of positive-definite Gaussian quadratic forms. **89a:60122**
Vakhaniya, N. N. Criteria for accuracy of measurement in the presence of random noise. (Russian. English summary) **89f:60018a**
— Lord's paradox on mean absolute deviation. **89f:60018b**
Viswanadham, N. (*with* Taylor, James Hugh; Luce, Ethan Craig) A frequency-domain approach to failure detection and isolation with application to GE-21 turbine engine control systems. (Not in MR)

94A14 Modulation and demodulation

Alcázar-Fernández, J. *see* **Figueiras-Vidal, A. R.; et al., (89b:94004)**
Biglieri, Ezio (*with* Elia, Michele) Multidimensional modulation and coding for band-limited digital channels. **89k:94020**
Chen, Zheng Hong The error code rate of relatively phase shifted relative demodulation under Gaussian white noise. (Chinese) (Not in MR)
Elia, Michele *see* **Biglieri, Ezio, 89k:94020**
Figueiras-Vidal, A. R. (*with* Páez-Borrallo, J. M.; Alcázar-Fernández, J.; Ruiz-Mezcua, B.) Using a priori information and L_1-norm minimization in Cadzow's and Prony's line spectral analysis methods. (*see* **89b:94004**)
Georghiades, Costas N. On PPM sequences with good autocorrelation properties. (Not in MR)
Hatori, Mitsutoshi *see* **Suehiro, Naoki,** (Not in MR)
Ho, Paul K. M. (*with* McLane, Peter J.) Spectrum, distance, and receiver complexity of encoded continuous phase modulation. (Not in MR)
Ivanov, M. A. Optimal reception of band-efficient discrete signals with phase-frequency modulation. (Russian summary) (Not in MR)
McLane, Peter J. *see* **Ho, Paul K. M.,** (Not in MR)
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Portnoi, S. L. *see* **Zyablov, V. V., 89e:94004; 89k:94022** *and* **89k:94023**
Rimoldi, Bixio E. A decomposition approach to CPM. **89f:94008**
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Shavgulidze, S. A. *see* **Zyablov, V. V.; et al., 89k:94021; 89k:94022** *and* **89k:94023**
Suehiro, Naoki (*with* Hatori, Mitsutoshi) Modulatable orthogonal sequences and their application to SSMA systems. (Not in MR)
Wei, Lee-Fang Trellis-coded modulation with multidimensional constellations. **89c:94015**
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— (*with* Portnoĭ, S. L.; Shavgulidze, S. A.) The exponent of error probability in various modulation and coding systems. **89k:94022**
— (*with* Shavgulidze, S. A.; Shanidze, M. G.) Bounds on free Euclidean distance for various systems of modulation and coding. (Russian summary) **89k:94021**
— (*with* Portnoĭ, S. L.; Shavgulidze, S. A.) Construction and characteristics of new systems of modulation and convolution coding. **89k:94023**

Items with secondary classifications in 94A14

Ajmone Marsan, Marco *see* **Benedetto, Sergio; et al., 89f:94012**
Albertengo, Guido *see* **Benedetto, Sergio; et al., 89f:94012**
Arro, I. An algorithm for the reduced calculation of the discrete cosine Fourier transform. (Russian) (Not in MR)
Asaubaev, K. Sh. *see* **Popkov, Yu. S.; et al., 89e:93226**
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Barber, B. C. Analysis of binary quantisation effects in the processing of chirp and synthetic aperture radar signals. (*see* **89b:94004**)
Benedetto, Sergio (*with* Ajmone Marsan, Marco; Albertengo, Guido; Giachin, Egidio) Combined coding and modulation: theory and applications. **89f:94012**
Brockett, R. W. (*with* Cebuhar, W. A.) Smoothing and linearization of discontinuous control systems. **89k:93217**
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Cebuhar, W. A. *see* **Brockett, R. W., 89k:93217**
Chua, Leon O. *see* **Endo, Tetsuro, 89d:58081**
Costello, Daniel J., Jr. *see* **Rouanne, Marc,** (**89c:94004**)
Davisson, Lee D. *see* **Flikkema, Paul G.,** (Not in MR)
Endo, Tetsuro (*with* Chua, Leon O.) Chaos from phase-locked loops. **89d:58081**
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Fomin, A. F. *see* **Shelukhin, O. I.,** (Not in MR)
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Giachin, Egidio *see* **Benedetto, Sergio; et al., 89f:94012**
Kamaletdinov, B. Zh. Ternary sequences with ideal periodic autocorrelation properties. **89h:62152**
Kuhlmann, Federico (*with* Bucklew, James A.) Piecewise uniform vector quantizers. (*see* **89j:94002**)
Kumar, P. Vijay Frequency-hopping code sequence designs having large linear span. (Not in MR)
Mark, W. D. Effects of intensity modulations on the power spectra of random processes. **89a:93046**
Morales-Moreno, Fidel (*with* Pasupathy, Subbarayan) Structure, optimization, and realization of FFSK trellis codes. **89k:94074**
Pasupathy, Subbarayan *see* **Morales-Moreno, Fidel, 89k:94074**
Popkov, Yu. S. (*with* Ashimov, A. A.; Asaubaev, K. Sh.) ★ Статистическая теория автоматических систем с динамической частотно-импульсной модуляцией. (Russian) [Statistical theory of automatic systems with dynamic frequency-impulse modulation] **89e:93226**
Rouanne, Marc (*with* Costello, Daniel J., Jr.) A lower bound on the minimum Euclidean distance of trellis codes. (*see* **89c:94004**)
Shelukhin, O. I. (*with* Fomin, A. F.) Design of nonlinear gauges and demodulators in the presence of non-Gaussian messages and noise. (Russian. English summary) (Not in MR)

94A15 Information theory, general [see also 62B10]

Ahlswede, Rudolf (*with* Csiszár, I.) Hypothesis testing with communication constraints. **89a:94008**
Anisimova, L. N. (*with* Gorev, P. V.; Koldanov, A. P.) The construction of consistent estimates. **89a:94009**
Benmansour, Schérazade (*with* Seke, Bobo) Un modèle de propagation de l'information dans un ensemble fini. [A model of propagation of information in a finite set] **89f:94009**
Berger, Toby *see* **Zhang, Zhen, 89c:94019**
Bukhalev, V. A. (*with* Efimov, E. V.; Kazakov, I. E.) Complex processing of information from gauges and indicators in dynamical systems with conditionally Markov structure. **89c:94016**
Csiszár, I. *see* **Ahlswede, Rudolf, 89a:94008**
Demoment, G. *see* **Du, X. C.; et al., 89d:94020**
Du, X. C. (*with* Saint-Félix, D.; Demoment, G.) Comparison between a factorization method and a partitioning method to derive invariant Kalman filters for fast image restoration. **89d:94020**
Efimov, E. V. *see* **Bukhalev, V. A.; et al., 89c:94016**
Egorova, I. N. A procedure for error estimation of information transformations. (Russian) (*see* **89f:00014**)
Flynn, Thomas J. (*with* Gray, Robert M.) Encoding of correlated observations. **89b:94009**
Gomel, P. Information gain with preference. **89k:94024**
Gorev, P. V. *see* **Anisimova, L. N.; et al., 89a:94009**
Gorgui-Naguib, R. N. (*with* King, Robert A.) A class of integer sequences with ideal correlation properties in the Möbius domain. **89c:94017**
Gray, Robert M. *see* **Flynn, Thomas J., 89b:94009**
Jain, K. C. On a characterization of information gain. (Not in MR)
Jumarie, Guy Observation with informational invariance: introduction to a new modeling of fuzzy arithmetics. **89d:94021**
Kawada, Yukiyosi Information and statistics. (Japanese. English summary) **89b:94010**
Kazakov, I. E. *see* **Bukhalev, V. A.; et al., 89c:94016**
King, Robert A. *see* **Gorgui-Naguib, R. N., 89c:94017**
Kleyle, R. (*with* de Korvin, A.) Martingale properties of an information-feedback loop. **89g:94012**
Koldanov, A. P. *see* **Anisimova, L. N.; et al., 89a:94009**
Kopeĭkin, S. V. *see* **Kurochkin, E. P.; et al., 89c:94018**
de Korvin, A. *see* **Kleyle, R., 89g:94012**
Kumar, P. Vijay Frequency-hopping code sequence designs having large linear span. (Not in MR)
Kurochkin, E. P. (*with* Muminov, N. A.; Kopeĭkin, S. V.) ★ Адаптивные методы обработки измерительной информации. (Russian) [Adaptive methods for processing of measuring information] **89c:94018**
Lánský, Miloš On generalized information theory as a basis of theory of supersigns. (*see* **89a:93003**)
Levoshich, O. L. *see* **Nakonechnyĭ, A. G., 89f:94010**
Muminov, N. A. *see* **Kurochkin, E. P.; et al., 89c:94018**
Nakonechnyĭ, A. G. (*with* Levoshich, O. L.) Optimal estimates for random vectors from informational criteria. (Russian) **89f:94010**
Oancea, Elena La redondance informationelle multiple. (English summary) [Multiple informational redundance] (Not in MR)
Rao, Nageswara S. V. (*with* Viswanadham, N.) An efficient level-structuring algorithm for large scale systems. (Not in MR)
Rudakov, K. V. *see* **Zhuravlëv, Yu. I., 89d:94023**
Saint-Félix, D. *see* **Du, X. C.; et al., 89d:94020**
Sander, Wolfgang Additive and nonadditive information improvements. **89i:94014**
Schächter, François The probabilistic-informational opacity functional, Jaynes's principle, and distances to equilibrium of an evolving system. **89g:94013**
— An informational extension of the second principle. **89j:94011**
Seke, Bobo *see* **Benmansour, Schérazade, 89f:94009**
Shen, Shi Yi Some new directions in information theory. (Chinese. English summary) **89j:94012**
Toffoli, Tommaso Information transport obeying the continuity equation. **89j:94013**
Viswanadham, N. *see* **Rao, Nageswara S. V.,** (Not in MR)
Weltner, Klaus Measurement of required time for information processing in man. (*see* **89a:94001**)
Yamamoto, Hirosuke Secret sharing system using (k, L, n) threshold scheme. **89k:94025**
Zaheeruddin A basic theorem in information theory. **89d:94022**
Zhang, Zhen (*with* Berger, Toby) Estimation via compressed information. **89c:94019**
Zhuravlëv, Yu. I. (*with* Rudakov, K. V.) On algebraic correction of procedures for processing (transforming) information. (Russian) **89d:94023**
Ziv, Jacob On classification with empirically observed statistics and universal data compression. **89i:94015**

Items with secondary classifications in 94A15

Ahlswede, Rudolf (*with* Wegener, Ingo) ★ Search problems. **89c:68019**
Algoet, Paul H. (*with* Cover, Thomas M.) Asymptotic optimality and asymptotic equipartition properties of log-optimum investment. **89h:90025**
Alimov, A. L. A method of data compression for digital correcting of readings of a measuring system. (Russian) **89f:65017**
Bar-David, Israel (*with* Shamai, Shlomo) On information transfer by envelope-constrained signals over the AWGN channel. **89i:94025**
(Barzdin', Ya. M.) *see* **Kolmogorov, A. N., 89a:01104**
Beauchemin, Pierre (*with* Brassard, Gilles) A generalization of Hellman's extension to Shannon's approach to cryptography. **89k:94041**
Bennett, Charles H. Notes on the history of reversible computation. **89i:01045**
Blankenbecler, R. *see* **Partovi, M. H.,** (**89f:62001**)
(Bogolyubov, N. N.) *see* **Kolmogorov, A. N., 89a:01104**
Brassard, Gilles *see* **Beauchemin, Pierre, 89k:94041**
Braunstein, Samuel L. (*with* Caves, Carlton M.) Information-theoretic Bell inequalities. **89e:81006**
Burosch, Gustav (*with* Leont'ev, V. K.; Markosyan, A. S.) On the possibility of propagating information on graphs. **89d:05147**
Butzer, Paul L. (*with* Splettstösser, W.; Stens, R. L.) The sampling theorem and linear prediction in signal analysis. **89b:94006**
Caves, Carlton M. *see* **Braunstein, Samuel L., 89e:81006**
Chaitin, Gregory J. ★ Algorithmic information theory. **89g:68022**
(Chuyan, O. R.) *see* **Traub, Joseph Frederick; et al., 89i:68062**
Cover, Thomas M. *see* **Algoet, Paul H., 89h:90025** *and* **Open problems in communication and computation, 89c:94003**
Csiszár, I. (*with* Narayan, Prakash) The capacity of the arbitrarily varying channel revisited: positivity, constraints. **89k:94037**
Dial, Gur Shannon's random-cipher result and the R-norm information. **89e:94008**
(Dobrushin, R. L.) *see* **Kolmogorov, A. N., 89a:01104**
Folger, Tina A. *see* **Klir, G. J., 89e:94028**
Gehrig, W. On a characterization of the Shannon concentration measure. **89h:39009**
(Gnedenko, B. V.) *see* **Kolmogorov, A. N., 89a:01104**
(Gopinath, B.) *see* **Open problems in communication and computation, 89c:94003**
Han, Te Sun Hypothesis testing with multiterminal data compression. **89c:62044**
Hirata, Hironori (*with* Sugai, Yasuo) Aggregation of ecological networks based on information theory. **89j:92064**
Hofacker, G. L. (*with* Levine, R. D.) The evolution of complex systems. **89b:93011**
Hwang, C. S. *see* **Mohler, Ronald R., 89j:93011**
Ihara, Shunsuke Capacity of discrete time Gaussian channel with and without feedback. I. **89h:94009**
Ismatova, Kh. R. Application of recognition algorithms for calculating estimates for the processing of a multizone video image. (Russian) **89h:68153**

Jain, Priti (*with* Tuteja, R. K.) On a coding theorem connected with "useful" entropy of order α and type β. **89b:94014**

Jumarie, Guy Thermodynamic representation of dynamic systems defined by a syntactic space and a semantic space. **89b:80002**

— On the definitions and the measures of the amount of information involved by a form. **89j:94019**

— New results in the information theory of patterns and forms. **89e:92002**

Kacewicz, B. Z. (*with* Milanese, M.; Vicino, A.) Conditionally optimal algorithms and estimation of reduced order models. **89c:93039**

Keegel, J. C. *see* **Kullback, S.; et al., 89b:62015**

Klir, G. J. (*with* Folger, Tina A.) ★ Fuzzy sets, uncertainty, and information. **89e:94028**

Kolmogorov, A. N. ★ Теория информации и теория алгоритмов. (Russian) [Information theory and the theory of algorithms] **89a:01104**

Krieger, Wolfgang On sofic systems. II. **89k:54098**

Kullback, J. H. *see* **Kullback, S.; et al., 89b:62015**

Kullback, S. (*with* Keegel, J. C.; Kullback, J. H.) ★ Topics in statistical information theory. **89b:62015**

Leont'ev, V. K. *see* **Burosch, Gustav; et al., 89d:05147**

Levine, R. D. *see* **Hofacker, G. L., 89b:93011**

Lo, James Ting Ho Bilinearization of stochastic systems. **89d:93091**

Margulis, G. A. Explicit group-theoretic constructions of combinatorial schemes and their applications in the construction of expanders and concentrators. **89f:68054**

Markosyan, A. S. *see* **Burosch, Gustav; et al., 89d:05147**

Matsumoto, Kenji (*with* Tsuda, Ichiro) Calculation of information flow rate from mutual information. **89c:58079**

Milanese, M. (*with* Tempo, R.; Vicino, A.) Strongly optimal algorithms and optimal information in estimation problems. **89b:93108**

— *see also* **Kacewicz, B. Z.; et al., 89c:93039**

Mohler, Ronald R. (*with* Hwang, C. S.) Nonlinear data observability and information. **89j:93011**

Muchnik, I. B. (*with* Shvartser, L. V.) Submodular set functions and monotone systems in aggregation problems. I. (Russian. English summary) **89a:93005**

— (*with* Shvartser, L. V.) Submodular set functions and monotone systems in aggregation problems. II. (Russian. English summary) **89a:93006**

Narayan, Prakash *see* **Csiszár, I., 89k:94037**

Nath, Prem (*with* Singh, Ranjit) Some characterizations of the directed divergence using cyclic symmetry. **89b:94016**

Nicolis, John S. ★ Chaotic dynamics applied to biological information processing. **89b:58189**

Oller, José M. Information metric for extreme value and logistic probability distributions. **89a:62017**

O'Neill, William D. The coding theorem and ordinary least-squares models in economics. (*see* **89d:00007**)

Paladin, G. (*with* Vulpiani, A.) Anomalous scaling laws in multifractal objects. **89k:58192**

Partovi, M. H. (*with* Blankenbecler, R.) Time, energy, and the limits of measurement. (*see* **89f:62001**)

(Prokhorov, Yu. V.) *see* **Kolmogorov, A. N., 89a:01104**

(Schwartz, Jacob T.) *see* **Chaitin, Gregory J., 89g:68022**

(Semenov, A. L.) *see* **Kolmogorov, A. N., 89a:01104**

Shamai, Shlomo *see* **Bar-David, Israel, 89i:94025**

(Shen', A. Kh.) *see* **Kolmogorov, A. N., 89a:01104**

(Shiryaev, A. N.) *see* **Kolmogorov, A. N., 89a:01104**

Shvartser, L. V. *see* **Muchnik, I. B., 89a:93005** *and* **89a:93006**

(Sinaĭ, Ya. G.) *see* **Kolmogorov, A. N., 89a:01104**

Singh, Ranjit *see* **Nath, Prem, 89b:94016**

(Sobolev, S. L.) *see* **Kolmogorov, A. N., 89a:01104**

Splettstösser, W. *see* **Butzer, Paul L.; et al., 89b:94006**

Stens, R. L. *see* **Butzer, Paul L.; et al., 89b:94006**

Sugai, Yasuo *see* **Hirata, Hironori, 89j:92064**

(Sukharev, A. G.) *see* **Traub, Joseph Frederick; et al., 89i:68062**

Swinney, Harry L. *see* **Vastano, John A., 89d:58089**

Taneja, Inder Jeet Unified measure of information applied to Marcov [Markov] chains and sufficiency. **89h:94006**

Tempo, R. *see* **Milanese, M.; et al., 89b:93108**

(Tikhomirov, V. M.) *see* **Kolmogorov, A. N., 89a:01104**

Traub, Joseph Frederick (*with* Wasilkowski, G. W.; Woźniakowski, Henryk) ★ Информация, неопределённость, сложность. (Russian) [Information, uncertainty, complexity] **89i:68062**

Tsuda, Ichiro *see* **Matsumoto, Kenji, 89c:58079**

Tuteja, R. K. *see* **Jain, Priti, 89b:94014**

(Uspenskiĭ, V. A.) *see* **Kolmogorov, A. N., 89a:01104**

Val'kov, K. I. Probability, information and the arguments of reason. (Russian) **89g:00023**

Vastano, John A. (*with* Swinney, Harry L.) Information transport in spatiotemporal systems. **89d:58089**

Vicino, A. *see* **Milanese, M.; et al., 89b:93108** *and* **Kacewicz, B. Z.; et al., 89c:93039**

Vovk, V. G. On a criterion for randomness. (Russian) **89a:60007**

Vulpiani, A. *see* **Paladin, G., 89k:58192**

Wasilkowski, G. W. *see* **Traub, Joseph Frederick; et al., 89i:68062**

Wegener, Ingo *see* **Ahlswede, Rudolf, 89c:68019**

Welsh, Dominic ★ Codes and cryptography. **89i:94001**

(Wotschke, Jean E.) *see* **Ahlswede, Rudolf, 89c:68019**

Woźniakowski, Henryk *see* **Traub, Joseph Frederick; et al., 89i:68062**

Items listed otherwise than by author

Lecture Notes in Statistics *see* **Kullback, S.; et al., 89b:62015**

Open problems in communication and computation ★ Open problems in communication and computation. **89c:94003**

94A17 Measures of information, entropy

Aczél, J. Some recent results on information measures, a new generalization and some "real life" interpretations of the "old" and new measures. **89g:94014**

— Characterizing information measures: approaching the end of an era. **89d:94024**

Algoet, Paul H. (*with* Cover, Thomas M.) A sandwich proof of the Shannon-McMillan-Breiman theorem. **89b:94011**

Arizono, Ikuo (*with* Ohia, Hiroshi; Nishiyama, Noriyuki) Information-theoretic approach to classifying operators in conveyor systems. (Not in MR)

Awad, Adnan M. (*with* Azzam, M.; Hussein, D.) Sup-entropy of degree α. (Arabic summary) **89a:94010**

— β-informational sufficient partition. **89c:94020**

— Application to an informational test. **89g:94015**

Azzam, M. *see* **Awad, Adnan M.; et al., 89a:94010**

Blankenbecler, R. (*with* Partovi, M. H.) Quantum density matrix and entropic uncertainty. (*see* **89f:62001**)

Bouchon, Bernadette Mesures d'information relatives à des observations imprécises. [Information measures with respect to fuzzy observations] **89d:94025**

Bretagnolle, Jean Hétérogénéité et information de Kullback. (English summary) [Heterogeneity and Kullback's information] **89k:94026**

Capocelli, R. M. (*with* De Santis, Alfredo; Taneja, Inder Jeet) Bounds on the entropy series. **89b:94012**

Censor, Yair (*with* Segman, Joseph) On block-iterative entropy maximization. **89a:94011**

Chakrabarti, C. G. Maximum-entropy and related estimation principles. **89k:94027**

Chawla, J. S. δ-information function, δ-entropy and their properties. **89b:94013**

Collot, Francis Introduction au symposium: la complexité et les différents emplois du concept d'entropie. [Introduction to the symposium: complexity and the various uses of the concept of entropy] **89d:94026**

Cover, Thomas M. *see* **Algoet, Paul H., 89b:94011**

Dalkey, N. C. Comparison of minimum cross-entropy inference with minimally informative information systems. **89i:94016**

De Rycker, Henry (*with* Dubois, Daniel M.) Une approche critique du concept d'entropie des systèmes macroscopiques. [A critical approach to the concept of entropy in macroscopic systems] (*see* **89a:94001**)

De Santis, Alfredo *see* **Capocelli, R. M.; et al., 89b:94012**

Dubois, Daniel M. *see* **De Rycker, Henry,** (**89a:94001**)

Ebanks, Bruce Measures of inset information on open domains. III. Weakly regular, semisymmetric, β-recursive entropies. **89j:94016**

— (*with* Maska, Gy.) Measures of inset information on the open domain. I. Inset entropies and information functions of all degrees. **89j:94014**

— Measures of inset information on open domains. II. Additive inset entropies with measurable sum property. **89j:94015**

Feistauerová, J. An entropic test of uniformity and optimality of codebooks. (Russian summary) (Not in MR)

Forte, B. (*with* Ng, C. T.; Lo Schiavo, M.) Additive and subadditive entropies for discrete random vectors. **89i:94017**

Gamboa, Fabrice Minimisation de l'information de Kullback et maximisation de l'entropie sous une contrainte quadratique. (English summary) [Kullback information minimization and entropy maximization under a quadratic constraint] **89i:94018**

Gil, María Angeles (*with* Pérez, Rigoberto; Gil Álvarez, Pedro Ángel) The mutual information. Estimation in the sampling without replacement. **89a:94012**

— *see also* **Martínez, I.; et al.,** (Not in MR)

Gil Álvarez, Pedro Ángel *see* **Gil, María Angeles; et al., 89a:94012**

Goel, S. N. *see* **Singh, Ram Pal, 89g:94018**

Goldman, Sally A. (*with* Rivest, Ronald L.) Making maximum entropy computations easier by adding extra constraints (extended abstract). (*see* **89f:62002**)

Golić, Jovan Dj. On the relationship between the information measures and the Bayes probability of error. **89j:94017**

— On the relationship between the separability measures and the Bayes probability of error. **89j:94018**

Grassberger, P. Finite sample corrections to entropy and dimension estimates. **89d:94027**

Gulati, K. K. *see* **Rakheja, T. D., 89b:94017**

Hooda, D. S. (*with* Singh, Umed) On useful information generating functions. (French and Italian summaries) **89a:94013**

Hussein, D. *see* **Awad, Adnan M.; et al., 89a:94010**

Jain, Priti (*with* Tuteja, R. K.) On a coding theorem connected with "useful" entropy of order α and type β. **89b:94014**

Jumarie, Guy On the definitions and the measures of the amount of information involved by a form. **89j:94019**

— Renyi entropy of maps: applications to fuzzy sets, pattern recognition, and chaotic dynamics. **89m:94007**

Kannappan, Pl. Characterization of some measures of information theory and the sum form functional equations. Generalized directed divergence. I. **89d:94028**

— On some functional equations from additive and nonadditive measures. VI. **89d:94029**

Kapur, J. N. New measures of information improvement. **89j:94020**

— (*with* Kumar, Vinod[2]; Kumar, Uma) A measure of mutual divergence among a number of probability distributions. **89d:94030**

— Some new nonadditive measures of entropy. (Italian summary) **89h:94004**

— (*with* Tripathi, G. P.) New measures of directed and symmetric-divergence based on m probability distributions. **89g:94016**

Katětov, Miroslav On dimensions of semimetrized measure spaces. **89h:94005**

— On the differential and residual entropy. **89m:94008**

Kawada, Yukiyosi Information and statistics. I. **89b:94015a**

— Information and statistics. II. **89b:94015b**

Klir, G. J. The role of uncertainty principles in inductive systems modelling. (Not in MR)

Kobayashi, Kunikatsu (*with* Suzuki, Nobuaki; Nemoto, Yoshiaki; Sato, Richard) A consideration for measure of information based on the Dempster-Shafer theory. **89j:94021**

Kumar, Ashok[3] *see* **Tuteja, R. K.; et al., 89d:94031**

Kumar, Uma *see* **Kapur, J. N.; et al., 89d:94030**

Kumar, Vinod^2 *see* **Kapur, J. N.; et al., 89d:94030**

Kvetnyĭ, R. N. (*with* Malikov, V. T.) ★ Информационная теория измерений: от модели к изделию. (Russian) [Informational theory of measurements: from the model to the product] **89k:94028**

Lin-Chung, P. J. *see* **Rajagopal, A. K.; et al., (89f:62002)**

Lippman, Alan A maximum entropy method for expert system construction. **89k:94029**

Lo Schiavo, M. *see* **Forte, B.; et al., 89i:94017**

Malikov, V. T. *see* **Kvetnyĭ, R. N., 89k:94028**

Martínez, I. (*with* Gil, María Angeles; Pérez, Rigoberto) A note on the comparison of the quadratic and Shannon's mutual information. (Not in MR)

Maska, Gy. *see* **Ebanks, Bruce, 89j:94014**

Morales González, Domingo The rate of variation of informational energy as a stopping rule in sequential sampling of a Dirichlet process. (Spanish. English summary) **89i:94019**

Nath, Prem (*with* Singh, Ranjit) Some characterizations of the directed divergence using cyclic symmetry. **89b:94016**

Nemoto, Yoshiaki *see* **Kobayashi, Kunikatsu; et al., 89j:94021**

Ng, C. T. *see* **Forte, B.; et al., 89i:94017**

Ngai, K. L. (*with* Rajagopal, A. K.; Teitler, S.) The concept of epoch entropy in complex systems. (*see* **89f:62002**)

Nishiyama, Noriyuki *see* **Arizono, Ikuo; et al.,** (Not in MR)

Oancea, Elena (*with* Rădulescu, Marcel) Sur l'entropie d'une variable aléatoire continue. (English summary) [Entropy of a continuous random variable] **89i:94020**

Ohia, Hiroshi *see* **Arizono, Ikuo; et al.,** (Not in MR)

Pardo Llorente, Julio Ángel Axiomatic characterization of useful information energy. (Spanish. English summary) **89j:94022**

Partovi, M. H. *see* **Blankenbecler, R., (89f:62001)**

Pérez, Rigoberto *see* **Gil, María Angeles; et al., 89a:94012** *and* **Martínez, I.; et al.,** (Not in MR)

Pessoa, Franquiberto Characterization of a density by minimizing the logarithmic information of degree q. **89c:94021**

Preda, Vasile C. Sur la distribution gamma et le principe du maximum de l'information. [On the gamma distribution and the maximum principle of information] (Not in MR)

Purcaru, Ion On unilateral entropic correlation factor. **89a:94014**

— Note sur l'énergie informationnelle Onicescu. [Note on Onicescu's informational energy] (Not in MR)

— On a generalization of the measure of information. **89j:94023**

Rădulescu, Marcel *see* **Oancea, Elena, 89i:94020**

Rajagopal, A. K. (*with* Lin-Chung, P. J.; Teitler, S.) Superposition effects in differential entropy and Kullback-Leibler information. (*see* **89f:62002**)

— *see also* **Ngai, K. L.; et al., (89f:62002)**

Rakheja, T. D. (*with* Gulati, K. K.) On symmetry and reversible symmetry concerning generalized directed divergence. **89b:94017**

Rivest, Ronald L. *see* **Goldman, Sally A., (89f:62002)**

Sahoo, Prasanna K. (*with* Wong, A. K. C.) Generalized Jensen difference based on entropy functions. **89i:94021**

Sander, Wolfgang The fundamental equation of information and its generalizations. **89g:94017**

Sato, Richard *see* **Kobayashi, Kunikatsu; et al., 89j:94021**

Schick, L. H. Super variational principles. (*see* **89f:62002**)

Segman, Joseph *see* **Censor, Yair, 89a:94011**

Sheng, Zhi Fan *see* **Wang, Hong Yu**^{2}, (Not in MR)

Singh, Ram Pal (*with* Goel, S. N.) Additive information measures with preference of order β. **89g:94018**

Singh, Ranjit *see* **Nath, Prem, 89b:94016**

Singh, Umed *see* **Hooda, D. S., 89a:94013**

Singhal, L. C. (*with* Tuteja, R. K.) On useful information improvement. **89b:94018**

— *see also* **Tuteja, R. K.; et al., 89d:94031**

Suzuki, Nobuaki *see* **Kobayashi, Kunikatsu; et al., 89j:94021**

Taneja, Inder Jeet On characterizations of generalized information measures. **89k:94030**

— Unified measure of information applied to Marcov [Markov] chains and sufficiency. **89h:94006**

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94A24 Coding theorems (Shannon theory)

Baryshev, M. Yu. An analytic description of the matrix of optimal alphabetic coding of elementary bounded-fragment languages. (Russian) **89e:94005**
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Hatori, Mitsutoshi *see* **Suehiro, Naoki, 89b:94019**
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Körner, J. (*with* Sgarro, Andrea) A new approach to rate-distortion theory. (Italian summary) **89c:94023**
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Arutyunyan, E. A. (*with* Arutyunyan, M. E.) E-capacity upper bound for a channel with random parameter. (Russian summary) **89g:94021**
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Tuteja, R. K. *see* **Jain, Priti, 89b:94014** *and* **89k:94033**
Wallace, C. S. (*with* Freeman, P. R.) Estimation and inference by compact coding. **89d:62031**
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94A29 Source coding

Bertrand-Mathis, Anne Specification, synchronisation, average length. (French summary) **89i:94022**
— Points génériques de Champernowne sur certains systèmes codes; application aux θ-shifts. (English summary) [Champernowne's generic points on certain code systems; application to θ-shifts] **89d:94032**
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Kim, Taejeong (*with* Neuhoff, David L.) Delta codes for line drawings. **89g:94020**
Lookabaugh, Tom *see* **Chou, Philip A.; et al., 89k:94031**
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Items with secondary classifications in 94A29

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Albertengo, Guido *see* **Benedetto, Sergio; et al., 89f:94012**
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(Bentley, J. L.) *see* **Ryabko, B. Ya.; et al., 89a:68045**
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Giachin, Egidio *see* **Benedetto, Sergio; et al., 89f:94012**
Gray, Robert M. *see* **Flynn, Thomas J., 89b:94009** *and* **Ayanoğlu, Ender, 89b:94021**
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Sgarro, Andrea *see* **Körner, J., 89c:94023**
(Sleator, D. D.) *see* **Ryabko, B. Ya.; et al., 89a:68045**
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Tarankova, N. D. *see* **Grinchenko, S. T., 89g:94007**
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(Wei, V. K.) *see* **Ryabko, B. Ya.; et al., 89a:68045**
Yeung, Raymond *see* **Berger, Toby, 89g:94039**
Zhang, Zhen (*with* Berger, Toby) Estimation via compressed information. **89c:94019**

94A34 Distortion theory

Binia, Jacob *see* **Rosenthal, Hanan, 89m:94010**
Bucklew, James A. *see* **Kuhlmann, Federico,** (**89j:94002**)
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Items with secondary classifications in 94A34

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Caines, Peter E. *see* **Sabourin, Michael G., 89e:93102**
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Gray, Robert M. *see* **Flynn, Thomas J., 89b:94009** *and* **Ayanoğlu, Ender, 89b:94021**
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Ts'ao, Hêng Wei *see* **Lai, K'un Ts'ai; et al.**, (Not in MR)

94A40 Channel theory

Ajmone Marsan, Marco *see* **Benedetto, Sergio; et al., 89f:94012**
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Brassard, Gilles *see* **Bennett, Charles H.; et al., 89c:94028**
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Gray, Robert M. *see* **Ayanoğlu, Ender, 89b:94021**
Hakizimana, G. (*with* Jourdain, G.; Loubet, G.) Adapted codes for communication through multipath channel. (French summary) **89g:94023**
Han, Te Sun (*with* Costa, Max H. M.) Broadcast channels with arbitrarily correlated sources. **89f:94013**
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Ihara, Shunsuke Capacity of discrete time Gaussian channel with and without feedback. I. **89h:94009**
Jourdain, G. *see* **Hakizimana, G.; et al., 89g:94023**
Kanaya, Fumio *see* **Nakagawa, Kenji, 89c:94029**
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Likhanov, N. B. *see* **Tsybakov, B. S., 89i:94027**
Loubet, G. *see* **Hakizimana, G.; et al., 89g:94023**
Marcus, Brian *see* **Karabed, Razmik, 89j:94024**
Massey, James L. *see* **Hirt, Walter, 89i:94026**
McEliece, Robert J. *see* **Stark, Wayne E., 89c:94030**
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Narayan, Prakash *see* **Csiszár, I., 89b:94023; 89k:94037** *and* **Hughes, Brian, 89k:94039**
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Robert, Jean-Marc *see* **Bennett, Charles H.; et al., 89c:94028**
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Shamai, Shlomo *see* **Bar-David, Israel, 89i:94025**
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Vanroose, Peter Code construction for the noiseless binary switching multiple-access channel. **89k:94040**
Verdú, Sergio *see* **Ghez, Sylvie; et al.**, (Not in MR)
Wyner, Aaron D. *see* **Ozarow, Lawrence H.; et al., 89j:94025**
You, Chuan Hua *see* **Chen, Yong Yi**, (Not in MR)
Ziv, Jacob *see* **Ozarow, Lawrence H.; et al., 89j:94025**

Items with secondary classifications in 94A40

Arikan, Erdal Sequential decoding for multiple access channels. **89f:94027**
Barg, A. M. (*with* Zyablov, V. V.; Portnoĭ, S. L.) An estimate for the effectiveness of correcting codes in a Gilbert-Elliot channel. (Russian) **89f:94028**
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Charnes, A. *see* **Ben-Tal, A.; et al., 89g:90238**
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Costello, Daniel J., Jr. *see* **Herro, Mark A.; et al.**, (Not in MR)
Csibi, S. More on the stability of a data packet flow embedded randomly into a partially active, scheduled speech packet flow. (Russian summary) **89d:60120**
Dobris, G. V. (*with* Kopytin, S. F.) Mutually correlated properties of sequences that can be obtained in multichannel pseudorandom number generators. (Russian) **89h:65017**
Ephremides, Anthony *see* **Rao, Ramesh R., 89m:90072**
Glonti, O. A. Nonlinear filtering of stochastic processes and optimal signal transmission through a feedback channel. **89e:93194**
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Hu, Lai Zhao *see* **Herro, Mark A.; et al.**, (Not in MR)
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Kopytin, S. F. *see* **Dobris, G. V., 89h:65017**
Korzhik, V. I. (*with* Lopato, Yu. P.) Optimal decoding of convolutional codes in channels with additive Markov noise. (Russian) **89g:94031**
Kuznetsov, Aleksandr Vasil'evich Coding in a memory in the presence of information on defects. (Russian) **89e:94006**
Lazareva, B. V. *see* **Vaninskiĭ, K. L., 89d:60129**
Lopato, Yu. P. *see* **Korzhik, V. I., 89g:94031**
Maritan, A. Hierarchical random networks. **89k:82055**
van Overveld, W. M. C. J. Fixed-length strategies for the binary multiplying channel. **89c:94045**
Petz, Dénes Sufficiency of channels over von Neumann algebras. **89f:46124**
Portnoĭ, S. L. *see* **Barg, A. M.; et al., 89f:94028**
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Shul'ts, M. M. Noise-resistant alphabetic coding. (Russian) **89d:94033**
Suda, Hirohito *see* **Imai, Hideki; et al., 89m:94019**
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Teboulle, M. *see* **Ben-Tal, A.; et al., 89g:90238**
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Vvedenskaya, N. D. *see* **Barg, A. M.; et al., 89h:94013**
Yanagi, Kenjiro An upper bound to the capacity of discrete time Gaussian channel with feedback. **89m:94009**
Yashiro, Mitsuhiko *see* **Imai, Hideki; et al., 89m:94019**
Zyablov, V. V. *see* **Barg, A. M.; et al., 89f:94028** *and* **89h:94013**

94A50 Theory of questionnaires

Alipov, N. V. Design of optimal polychotomous questionnaires for conjecturing the number with wrong answers. (Russian) **89d:94035**

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Słowikowski, Wojtek Quantizations of questionnaires. **89h:92071**

94A60 Cryptography [see also 11T71]

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Beauchemin, Pierre (*with* Brassard, Gilles) A generalization of Hellman's extension to Shannon's approach to cryptography. **89k:94041**
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Brassard, Gilles (*with* Crépeau, Claude) Zero-knowledge simulation of Boolean circuits. **89c:94031**
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Cain, Marianne R. *see* **Wagner, Neal R.; et al., 89b:94026**

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Crépeau, Claude A zero-knowledge poker protocol that achieves confidentiality of the players' strategy or how to achieve an electronic poker face. **89b:94024**

— *see also* **Brassard, Gilles, 89c:94031**

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Dixon, R. D. *see* **Blakley, G. R., 89d:94036**

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Evertse, J.-H. *see* **Chaum, David; et al., 89d:94037**

Fujioka, Atsushi *see* **Tsujii, Shigeo; et al., 89g:94026**

Fujiwara, Tohru (*with* Taniguchi, Kenichi; Kasami, Tadao) Decision problem concerning security for cryptographic protocols. **89f:94015**

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Ito, Toshiya *see* **Kurosawa, Kaoru; et al., 89k:94049**

Itoh, Toshiya *see* **Tsujii, Shigeo; et al., 89g:94026**

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— *see also* **Tsujii, Shigeo; et al., 89g:94026**

Latko, M. *see* **Grodzki, Z., 89f:94016**

Lu, Kai Cheng *see* **He, Jing Min, 89m:94011**

Massey, James L. *see* **Xiao, Guo Zhen, 89f:94019**

Matsumoto, Tsutomu *see* **Tsujii, Shigeo; et al., 89g:94026**

McCurley, Kevin S. A key distribution system equivalent to factoring. **89k:94050**

Meijer, Henk *see* **Adams, Carlisle M., (89b:68005)**

Micali, Silvio (*with* Rackoff, Charles; Sloan, Bob) The notion of security for probabilistic cryptosystems. **89k:94051**

— *see also* **Goldwasser, Shafi; et al., 89e:94009**

Pan, Luquan On the security of p-party protocols. **89i:94032**

Peralta, René *see* **Chaum, David; et al., 89d:94037** *and* **van de Graaf, Jeroen, (89b:68005)**

Putter, Paul S. *see* **Wagner, Neal R.; et al., 89b:94026**

Rackoff, Charles *see* **Micali, Silvio; et al., 89k:94051**

Rivest, Ronald L. *see* **Goldwasser, Shafi; et al., 89e:94009; Kaliski, Burton S., Jr.; et al., 89f:94017** *and* **Chor, Benny, 89k:94043**

Robbins, Lynda E. *see* **Carroll, John M., 89i:94029**

Rubin, Frank The cryptographic uses of Post tag systems. **89e:94010**

Rundell, William *see* **Blakley, G. R., 89i:94028**

Sherman, Alan T. *see* **Kaliski, Burton S., Jr.; et al., 89f:94017**

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Takeuchi, Masashi *see* **Kurosawa, Kaoru; et al., 89k:94049**

Taniguchi, Kenichi *see* **Fujiwara, Tohru; et al., 89f:94015**

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Wagner, Neal R. (*with* Putter, Paul S.; Cain, Marianne R.) Large-scale randomization techniques. **89b:94026**

Wan, Zhe Xian *see* **Dai, Zong Duo, 89i:94030**

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Warndof, Joe *see* **Huthnance, E. Dennis, 89k:94046**

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Items with secondary classifications in 94A60

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Beker, Henry (*with* Mitchell, Chris) Permutations with restricted displacement. **89f:05009**

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Brassard, Gilles *see* **Bennett, Charles H.; et al., 89c:94028**

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(Deavours, Cipher A.) *see* **Cryptology, 89m:01143**

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(Kahn, David) *see* **Cryptology, 89m:01143**

Kannan, Ravindran *see* **Frieze, A. M.; et al., 89d:11115**

Kranakis, Evangelos ★ Primality and cryptography. **89g:11124**

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— *see also* **Frieze, A. M.; et al., 89d:11115**

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Luby, Michael (*with* Rackoff, Charles) How to construct pseudorandom permutations from pseudorandom functions. **89i:68025**

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Luo, Qiao Lin *see* **Zhang, Zhao Zhi, 89a:05003**

(Mellen, Greg) *see* **Cryptology, 89m:01143**

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— *see also* **Beker, Henry, 89f:05009**

(Moscardini, A. O.) *see* **Mathematical modelling for information technology, 89b:94003**

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Niederreiter, Harald Continued fractions for formal power series, pseudorandom numbers, and linear complexity of sequences. **89e:11047**

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Rackoff, Charles *see* **Luby, Michael, 89i:68025**

Reeds, James A. *see* **Lagarias, J. C., 89c:11025**

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(Robson, E. H.) *see* **Mathematical modelling for information technology, 89b:94003**

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Schnorr, C.-P. *see* **Pollard, John M., 89e:11080** *and* **Alexi, Werner; et al., 89j:11120**

Selman, Alan L. *see* **Grollmann, Joachim, 89h:68050**

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Tuler, Randy *see* **Pomerance, Carl; et al., 89f:11168**

Ureczky, József *see* **Nemetz, T., 89e:94013**

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(Winkel, Brian) *see* **Cryptology, 89m:01143**

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Zhang, Zhao Zhi (*with* Luo, Qiao Lin) A recursive algorithm for the generation of M-sequences. (Chinese. English summary) **89a:05003**

Items listed otherwise than by author

Conference:

Modelling for the Communication Industries ★ Mathematical modelling for information technology. **89b:94003**

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94A99 None of the above, but in this section

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Korneĭchuk, N. P. Optimal coding of vector functions. (Russian) **89k:94053**

Niederreiter, Harald A simple and general approach to the decimation of feedback shift-register sequences. (Russian summary) **89k:94054**

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Sapozhnikov, Vl. V. *see* **Sapozhnikov, V. V.; et al., 89i:94033**

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Basu, Sankar (*with* Fettweis, A.) Test for two-dimensional scattering Hurwitz polynomials. **89i:93097**

Fettweis, A. *see* **Basu, Sankar, 89i:93097**

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Simonyi, Gábor *see* **Körner, J., 89i:05091**

Yakovlev, A. F. *see* **Kiselev, V. G., 89h:92066**

94Bxx Algebraic theory of error-correcting codes [see also 11T71]

(Drenski, Veselin S.) *see* **Wolfmann, Jacques, 89f:94020**

Heise, Werner (*with* Quattrocchi, Pasquale) The algebraic theory of codes. (Italian) **89b:94027**

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Items with secondary classifications in 94Bxx

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94B05 Linear codes, general

Alon, Noga (*with* Bergmann, E. E.; Coppersmith, Don; Odlyzko, A. M.) Balancing sets of vectors. **89i:94034**

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García-Ugalde, Francisco J. Coding and decoding algorithms of Reed-Solomon codes executed on an M68000 microprocessor. (French summary) **89g:94029**

van Gils, Wil J. *see* **Tolhuizen, Ludo M. G. M., 89g:94030**

Godlewski, P. *see* **Fang, Jaing; et al., (89c:94004)**

Griera, Mercè *see* **Huguet, L., 89b:94030**

Hamada, Noboru Characterization of min·hypers in a finite projective geometry and its applications to error-correcting codes. **89b:94029**

Helleseth, T. *see* **Dodunekov, Stefan M.; et al., 89f:94021**

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Imai, Hideki *see* **Okano, Hirokazu, 89a:94016**

Ito, Noboru *see* **Enomoto, Hikoe; et al., 89a:94015**

Kaneta, Hitoshi *see* **Maruta, Tatsuya; et al., 89j:94029**

Katsman, G. L. (*with* Kovalev, S. I.; Litsyn, S. N.) New codes obtained by lengthening methods. (Russian) **89h:94011**

Kikumasa, Isao *see* **Maruta, Tatsuya; et al., 89j:94029**

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94B10 Convolutional codes

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Snyders, Jakov *see* **Be'ery, Yair, 89g:94035**

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94B15 Cyclic codes

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Lempel, Abraham *see* **Roth, Ron M., 89k:94068**

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Tyagi, Vinod *see* **Dass, Bal Kishan, 89k:94058**
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94B25 Combinatorial codes

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Katchalski, M. *see* **Abbott, H. L., 89i:05173**
Kudryashov, B. D. *see* **Zakharova, T. G., 89g:94037**
Lachaud, Gilles Projective Reed-Muller codes. (French summary) **89i:94038**
(Melter, Robert A.) *see* **Tonchev, Vladimir D., 89f:05025**
Narasimha Sastry, N. S. *see* **Bagchi, Bhaskar, 89h:51018**
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94B35 Decoding

Afanas′ev, V. B. (*with* Dumer, I. I.) Tabular decoding of Reed-Solomon codes. (Russian) **89e:94015**
Arikan, Erdal Sequential decoding for multiple access channels. **89f:94027**
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Lin, Shu *see* **Kasami, Tadao; et al., 89k:94073**
Montgomery, Bruce L. (*with* Kumar, B. V. K. Vijaya) On decoding rules to minimize the probability of information bit errors. **89i:94044**
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Morelos-Zaragoza A., R. H. *see* **García-Ugalde, Francisco J., 89d:94047**
Muratani, Takuro *see* **Koga, Keiichiro; et al., 89j:94034**
Pasupathy, Subbarayan *see* **Morales-Moreno, Fidel, 89k:94074**
Portnoĭ, S. L. *see* **Barg, A. M.; et al., 89f:94028**
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Reed, I. S. *see* **Truong, T. K.; et al., 89c:94041**
Rudneva, I. V. *see* **Bikkenin, R. R.**, (**89b:94001**)
Shanidze, M. G. *see* **Shavgulidze, S. A., 89f:94030**
Shao, H. M. *see* **Truong, T. K.; et al., 89c:94041**
Shavgulidze, S. A. (*with* Shanidze, M. G.) Asymptotic characteristics of convolutional concatenated codes in systems with q-positional signals. (Russian. English and Georgian summaries) **89f:94030**
Shyu, Hsuen Chyun *see* **Truong, T. K.; et al., 89c:94041**
Snyders, Jakov *see* **Be'ery, Yair, 89g:94035**
Stevens, Patrick Extension of the BCH decoding algorithm to decode binary cyclic codes up to their maximum error correction capacities. **89k:94075**
Suda, Hirohito *see* **Imai, Hideki; et al., 89m:94019**
Takata, Toyoo *see* **Kasami, Tadao; et al., 89k:94073**
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Vvedenskaya, N. D. *see* **Barg, A. M.; et al., 89h:94013**
Wilson, John Herman Error-correcting codes for a T-user binary adder channel. **89i:94045**
Yamasaki, Norikazu *see* **Koga, Keiichiro; et al., 89j:94034**
Yashiro, Mitsuhiko *see* **Imai, Hideki; et al., 89m:94019**
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Zyablov, V. V. *see* **Barg, A. M.; et al., 89f:94028** *and* **89h:94013**

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Balakirskiĭ, V. B. Sequential decoding of linear convolutional codes. (Russian) **89c:94038**
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Battail, G. *see* **Fang, Jaing; et al.**, (**89c:94004**)
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Dür, Arne On the computation of the performance probabilities for block codes with a bounded-distance decoding rule. (Not in MR)
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intractability of soft decision decoding of linear codes. (*see* **89c:94004**)
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Glover, N. *see* **Hsu, I.-S.; et al., 89b:11102**
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Huth, Gaylord K. *see* **Cheng, Unjeng, 89i:94049**
Imai, Hideki *see* **Okano, Hirokazu, 89a:94016**
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Korzhik, V. I. (*with* Lopato, Yu. P.) Optimal decoding of convolutional codes in channels with additive Markov noise. (Russian) **89g:94031**
Lopato, Yu. P. *see* **Korzhik, V. I., 89g:94031**
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Seroussi, Gadiel *see* **Roth, Ron M., 89g:94033**
Truong, T. K. *see* **Hsu, I.-S.; et al., 89b:11102**

94B40 Arithmetic codes

(Astola, Jaakko) *see* **Lobstein, Antoine, 89g:94038**
Ernvall, Sirpa On the Hamming bound for nonbinary arithmetic AN codes. **89d:94048**
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94B45 Prefix, length-variable, comma-free codes

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Items with secondary classifications in 94B45

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Cummings, L. J. Aspects of synchronizable coding. **89i:94048**
De Felice, Clelia Finite biprefix sets of paths in a graph. **89k:68117**
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94B50 Synchronization error-correcting codes

Alexis, Roger Search for sequences with zero autocorrelation. (French summary) **89j:94036**
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94B60 Other types of codes

Bastani, Farokh B. *see* **Leiss, Ernst L.**, (Not in MR)
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Györfi, László *see* **Ericson, Thomas, 89k:94078**
Hämäläinen, Heikki O. *see* **Honkala, Iiro S.**, (**89j:94002**)
Hartmann, Carlos R. P. *see* **Tao, D. L.; et al., 89d:94051**
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Vaccaro, U. *see* **Capocelli, R. M.; et al., 89a:94003**
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94B70 Error probability

Cheng, Unjeng (*with* Huth, Gaylord K.) Bounds on the bit error probability of a linear cyclic code over $\mathrm{GF}(2^l)$ and its extended code. **89i:94049**
Dür, Arne On the computation of the performance probabilities for block codes with a bounded-distance decoding rule. (Not in MR)
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Schwartz, S. C. *see* **Hero, Alfred O.**, (Not in MR)
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Tazaki, Saburo *see* **Fukunaga, Tetsuya**, (Not in MR)
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Fujiwara, Tohru *see* **Kasami, Tadao; et al.**, **89k:94073**
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Kolesnik, V. D. (*with* Osipov, S. S.) Calculation of $P(m,n)$ and of analogous characteristics for channels described by functions of Markov chains. (Russian) **89e:94007**
Lin, Shu *see* **Kasami, Tadao; et al.**, **89k:94073**
Mart′yanov, A. N. *see* **Fedorov, S. E.**, **89e:81050**
Osipov, S. S. *see* **Kolesnik, V. D.**, **89e:94007**
Takata, Toyoo *see* **Kasami, Tadao; et al.**, **89k:94073**
Tarankova, N. D. *see* **Grinchenko, S. T.**, **89g:94007**
Vvedenskaya, N. D. *see* **Barg, A. M.; et al.**, **89h:94013**
Zyablov, V. V. *see* **Barg, A. M.; et al.**, **89h:94013**

94B99 None of the above, but in this section

Aĭdinyan, A. K. A T-family extremal problem in Hamming space. (Russian summary) **89e:94019**
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Muzychuk, M. E. Subschemes of a Hamming scheme. (Russian) **89d:94052**
Schaub, Thomas *see* **Massey, James L.**, **89m:94021**
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Items with secondary classifications in 94B99

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94Cxx Circuits, networks

94C05 Analytic circuit theory

Ahmad, Hiasat *see* **Andraos, Sweidan**, (Not in MR)
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Fei, Zonglian *see* **Chen, Wai-Kai; et al.**, (Not in MR)
Felyshtyn, O. I. *see* **Sinitskiĭ, L. A.**, (Not in MR)
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Fomin, A. F. *see* **Shelukhin, O. I.**, (Not in MR)
Fosséprez, Marc (*with* Hasler, Martin J.; Schnetzler, Claudia) On the number of solutions of piecewise-linear resistive circuits. **89k:94084**
Fujimoto, Hideaki Realizability conditions of a class of two-variable reactance filter. **89k:94085**
Gerlovin, Emmanuel *see* **Shragowitz, Eugene**, **89k:94090**
Gladwell, Graham M. L. (*with* Dods, Steven R. A.; Chaudhuri, Sujeet K.) Nonuniform transmission-line synthesis using inverse eigenvalue analysis. (Not in MR)
Goette, Josef (*with* Guggenbühl, Walter) Noise performance of SC-integrators assuming different operational transconductance amplifier (OTA) models. **89d:94053**
Goncharik, L. I. *see* **Keshish′yan, V. A.**, (Not in MR)
Gorbatov, Yu. V. *see* **Babayan, R. R.; et al.**, (Not in MR)
Govorukhin, D. N. *see* **Volkov, E. A.; et al.**, **89i:94053**
Guggenbühl, Walter *see* **Goette, Josef**, **89d:94053**
Hamill, David C. (*with* Jeffries, David J.) Subharmonics and chaos in a controlled switched-mode power converter. (Not in MR)
Hara, Veikko ★ On the delay time for distributed networks. **89m:94022**
Harbour, M. Glez (*with* Drake, J. M.) Calculation of signal delay in integrated interconnections. **89k:94086**
Hasler, Martin J. *see* **Fosséprez, Marc; et al.**, **89k:94084**
Hedlund, Kye S. Aesop: a tool for automated transistor sizing. (*see* **89f:68003**)
Horiuchi, Kazuo *see* **Sumi, Yuzo; et al.**, **89j:94041** *and* **Yamamura, Kiyotaka**, **89j:94043**
Huang, Jín Ming (*with* Zou, Rui) Fault location in linear circuits with tolerance. (Chinese. English summary) **89g:94045**
Itoh, Hiroshi *see* **Ozawa, Takao**, **89h:94015**
Jasiński, Bogdan *see* **Pykacz, Jarosław**, **89j:94040**
Jeffries, David J. *see* **Hamill, David C.**, (Not in MR)
Kahlert, Claus The chaos producing mechanism in Chua's circuit. (Not in MR)
Kanamori, Hitoshi *see* **Matsumoto, Masao**, (Not in MR)
Kats, M. A. (*with* Kinsht, N. V.; Ragulin, P. G.) Diagnosis of a parametric circuit. (Russian. English summary) **89f:94033**
Keshish′yan, V. A. (*with* Goncharik, L. I.) Formulation of parametric transfer functions of discrete switched-capacitor circuits. (Russian) (Not in MR)
Kezunovic, M. *see* **Peruničić, B.; et al.**, **89i:94052**
Khasin, L. S. *see* **Krichevskiĭ, R. E.**, **89m:94023**
Kim, Jaeseok (*with* McDonald, John F.) Transient and crosstalk analysis of slightly lossy interconnection lines for wafer scale integration and wafer scale hybrid packaging—weak coupling case. (Not in MR)
Kinsht, N. V. *see* **Kats, M. A.; et al.**, **89f:94033**
Konnik, S. I. *see* **Danilov, L. V.; et al.**, (Not in MR)
Koval′skaya, L. V. *see* **Volkov, E. A.; et al.**, **89i:94053**
Koval′ski, M. P. *see* **Zhuĭkov, V. Ya.**, (Not in MR)
Kreso, S. *see* **Peruničić, B.; et al.**, **89i:94052**
Krichevskiĭ, R. E. (*with* Khasin, L. S.) Construction of universal numerators and formulas for threshold functions. **89m:94023**
Kriegsmann, Gregory A. A mathematical theory of full-wave rectification. **89j:94039**
Kriger, L. L. *see* **Danilov, L. V.; et al.**, (Not in MR)
Kuo, Tê Shêng *see* **Yu, Fu Chao; et al.**, **89k:94097**
Le Bihan, Jean (*with* Calvez, Léon-Claude) A new class of functions for transient analysis of coaxial cables terminated with parallel resistor and capacitor. **89b:94033**
Leibner, Peter *see* **Antreich, Kurt J.; et al.**, **89k:94081**
Li, Tie Cai Two applications of network theory. (Chinese. English summary) (Not in MR)
Li, Zhu Ying Computation of convolutions using gate functions, and the properties of convolutions. (Chinese. English summary) (Not in MR)
Likharev, K. K. ★ Dynamics of Josephson junctions and circuits. (Not in MR)
Lin, P. M. *see* **Zhao, Jiu**, **89k:94098**
Lipatova, A. E. Sharpening of an estimate for the complexity of realization of a system of all conjunctions of length n by switching circuits. **89d:94054**

Litvinov, V. V. Operation of a device for searching for a pseudorandom sequence with respect to delay under complex noise. (Russian. English summary) (Not in MR)

Lory, Peter Simulation of integrated circuits: numerical techniques. (*see* **89d:00007**)

Maka, Srinivasu Identification of noncommon node ports. **89c:94048**

Manivannan, K. (*with* Eswaran, C.; Antoniou, A.) Design of low-sensitivity universal wave digital biquads. (Not in MR)

Marrian, Christie R. K. (*with* Peckerar, Martin C.) Electronic "neural" net algorithm for maximum entropy solutions of ill-posed problems. (Not in MR)

Matsumoto, Masao (*with* Kanamori, Hitoshi) Analysis of high-voltage waveforms in 3-phase 12-pulse type X-ray units. (Not in MR)

McDonald, John F. *see* **Kim, Jaeseok**, (Not in MR)

Mironov, V. G. (*with* Pun′kov, I. M.) Design of universal frequency-selective circuits with switchable condensers. (Russian. English summary) **89k:94087**

Mitra, Sanjit K. *see* **Szczupak, Jacques; et al., 89c:94050**

Mochernyuk, Yu. P. *see* **Vorobkevich, A. Yu.; et al.**, (Not in MR)

Moraru, A. A new decomposition method in orthogonal components for periodic operation of electrical networks. **89k:94088**

Nakayama, Kenji (*with* Takahashi, Yutaka^2; Sato, Yayoi; Nukada, Yasuaki) An adaptive SC line equalizer system for four-wire full-duplex and multirate digital transmission. (Not in MR)

Nandakumar, V. (*with* Van Duzer, T.) Design of a fast variable-frequency Josephson shift register. (Not in MR)

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Newcomb, R. W. *see* **Dziurla, B.**, (Not in MR)

Ni, Lionel M. *see* **Wu, Ching-Farn E.; et al., 89k:94093**

Novosel′tsev, A. V. *see* **Tonkal′, V. E.; et al., 89e:94022**

Nukada, Yasuaki *see* **Nakayama, Kenji; et al.**, (Not in MR)

Oishi, Shin'ichi *see* **Sumi, Yuzo; et al., 89j:94041**

Ozawa, Takao (*with* Itoh, Hiroshi) Complex bases in active CR networks and their relations with the network excitation. **89h:94015**

Pankin, V. V. *see* **Danilov, L. V.; et al., 89g:94044**

Parasochkin, V. A. Modeling of nonlinear electrical circuits with a short transient process. (Russian. English summary) (Not in MR)

Peckerar, Martin C. *see* **Marrian, Christie R. K.**, (Not in MR)

Peruničić, B. (*with* Kezunovic, M.; Kreso, S.) Bilinear form approach to synthesis of a class of electric circuit digital signal processing algorithms. **89i:94052**

Polonnikov, D. E. *see* **Babayan, R. R.; et al.**, (Not in MR)

Pomeau, Y. *see* **Dandoloff, R., 89c:94047**

Pörnbacher, Fritz *see* **Antreich, Kurt J.; et al., 89k:94081**

Portmann, Clemenz L. *see* **Smith, Michael J. S., 89k:94092**

Prasad, K. S. (*with* Eswaran, C.) Limit-cycle free complex biquad recursive digital filters. (Not in MR)

Pun′kov, I. M. *see* **Mironov, V. G., 89k:94087**

Pykacz, Jarosław (*with* Jasiński, Bogdan) Physical realization of max, min and $1 - f(x)$ fuzzy connectives. **89j:94040**

Ragulin, P. G. *see* **Kats, M. A.; et al., 89f:94033**

Redkovets, S. N. *see* **Bondarenko, V. M., 89k:94082**

Reibiger, Albrecht Über das Klemmenverhalten von Netzwerken. [On the terminal behavior of networks] **89a:94024**

— Grundlagen der Netzwerktheorie. [The foundations of network theory] (Not in MR)

— Eine Explikation der Begriffe Mehrpol und Mehrtor. [Explaining the concepts of multipole and multiport] **89k:94089**

Ren, Jiang Su (*with* Zou, Rui) Fault diagnosis for analog circuits using fuzzy sets. (Chinese. English summary) **89g:94046**

Rogov, Yu. N. (*with* Semenov, V. A.) An efficient numerical method for the static modeling of LIS elements. (Russian) **89d:94055**

Rohrer, Ronald A. Circuit partitioning simplified. **89c:94049**

Sansen, Willy M. C. *see* **Chang, Zhongyuan**, (Not in MR)

Sato, Yayoi *see* **Nakayama, Kenji; et al.**, (Not in MR)

Sauvagerd, Ulrich A ten-channel equalizer for digital audio-applications. (Not in MR)

Schaumann, Rolf *see* **Tan, Mehmet A.**, (Not in MR)

Schnetzler, Claudia *see* **Fosséprez, Marc; et al., 89k:94084**

Semenov, V. A. *see* **Rogov, Yu. N., 89d:94055**

Shelukhin, O. I. (*with* Fomin, A. F.) Design of nonlinear gauges and demodulators in the presence of non-Gaussian messages and noise. (Russian. English summary) (Not in MR)

Shestakov, V. I. On the equivalence of passive bipoles. (Russian) **89b:94034**

Shragowitz, Eugene (*with* Gerlovin, Emmanuel) The set of Lagrange and Routh formulations for nonlinear networks. **89k:94090**

Sikora, Jan Sensitivity analysis vs the unit distribution method: its application to inverse problems. **89k:94091**

Sinitskiĭ, L. A. (*with* Felyshtyn, O. I.) An accelerated search for periodic regimes in autonomous circuits. (Russian. English summary) (Not in MR)

Sira-Ramirez, Hebertt J. Sliding motions in bilinear switched networks. **89d:94056**

Smith, Michael J. S. (*with* Portmann, Clemenz L.) Practical design and analysis of a simple "neural" optimization circuit. **89k:94092**

Snell, J. Laurie *see* **Doyle, Peter G., 89a:94023**

Sotnikov, D. D. *see* **Danilov, L. V.; et al., 89g:94044**

Sovin, R. Ya. *see* **Vorobkevich, A. Yu.; et al.**, (Not in MR)

Ştefanovici, Mircea A ternary algebra associated with the homogeneous Duffing equation. (Russian. Romanian summary) (Not in MR)

Stekh, Yu. V. *see* **Dmitrevich, G. D.; et al.**, (Not in MR)

Strelkov, M. T. *see* **Tonkal′, V. E.; et al., 89e:94022**

Su, Yi Yan *see* **Wu, Yong Shi^2; et al.**, (Not in MR)

Sumi, Yuzo (*with* Oishi, Shin'ichi; Takase, Tadaaki; Horiuchi, Kazuo) A constructive approach to the analysis of nonlinear resistive circuits based on the fixed point algorithm theory. **89j:94041**

Sun, Hun H. *see* **Bartos, Josef, 89e:94020**

Sussman-Fort, Stephen E. Approximate direct-search minimax circuit optimization. **89m:94024**

Suzuki, Yoshihiko A qualitative investigation of time-invariant nonlinear networks. Global state equation existence criteria. **89j:94042**

Szczupak, Jacques (*with* Mitra, Sanjit K.; Fadavi-Ardekani, Jalil) A computer-based synthesis method of structurally LBR digital allpass networks. **89c:94050**

Takahashi, Yutaka^2 *see* **Nakayama, Kenji; et al.**, (Not in MR)

Takase, Tadaaki *see* **Sumi, Yuzo; et al., 89j:94041**

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Tang, Mo Di Complete responses to linear circuits driven by common inputs. (Chinese. English summary) (Not in MR)

Tanzke, S. *see* **Uhlmann, H.; et al.**, (Not in MR)

Tong, Mao Da *see* **Chen, Wai-Kai, 89i:94051**

Tonkal′, V. E. (*with* Novosel′tsev, A. V.; Strelkov, M. T.) Symmetry of conjugate mappings of integral power components. (Russian. English summary) **89e:94022**

Uhlig, J. *see* **Uhlmann, H.; et al.**, (Not in MR)

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Van Duzer, T. *see* **Nandakumar, V.**, (Not in MR)

Vasil′ev, E. D. *see* **Blazhkevich, B. Ī.**, (Not in MR)

Vasilevskiĭ, S. I. *see* **Zezyul′kin, G. G.**, (Not in MR)

Volkov, E. A. (*with* Govorukhin, D. N.; Koval′skaya, L. V.; Yakovlenko, V. V.) An algorithm for the analysis of the steady-state mode of an electrical circuit with complex nonlinearities under polyharmonic action. (Russian. English summary) **89i:94053**

Vorobkevich, A. Yu. (*with* Davimuka, S. A.; Mochernyuk, Yu. P.; Sovin, R. Ya.) Determination of transient characteristics from operator circuit functions. (Russian. English summary) (Not in MR)

Voulgaris, Nicholas C. *see* **Avratoglou, Charalampos P.**, (Not in MR)

Wan, Jin Liang *see* **Chen, Wai-Kai; et al.**, (Not in MR)

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Watanabe, Yoshiaki A learning algorithm for tank and Hopfield signal decision circuit. (Not in MR)

Wawryn, Krzysztof Layout including parasitics for printed circuit boards. **89c:94051**

Wojcik, Anthony S. *see* **Wu, Ching-Farn E.; et al., 89k:94093**

Wu, Ching-Farn E. (*with* Wojcik, Anthony S.; Ni, Lionel M.) A rule-based circuit representation for automated CMOS design and verification. **89k:94093**

Wu, Yao A method to reduce the effect of tolerance in K-fault diagnosis. (Chinese. English summary) **89k:94094**

Wu, Yen P'ei *see* **Yu, Fu Chao; et al., 89k:94097**

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Xiong, Bing Kun *see* **Ye, Chun**, (Not in MR)

Yablonskaya, K. A. Properties of the realizability domain of fractional-rational functions of the third degree. (Russian) **89k:94095**

Yakovlenko, V. V. *see* **Volkov, E. A.; et al., 89i:94053**

Yamamura, Kiyotaka (*with* Horiuchi, Kazuo) Steady-state analysis of nonlinear oscillatory circuits by iterative decomposition method. **89j:94043**

Yang, Shan *see* **Wang, Bo Yong**, (Not in MR)

Yang, Shu Kong (*with* Zhou, Xin Jiu) Generalized linear functions and an efficient algorithm for fault parameter identification. (Chinese. English summary) **89k:94096**

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Zemanian, A. H. Infinite electrical networks: a reprise. **89i:94054**

Zezyul′kin, G. G. (*with* Vasilevskiĭ, S. I.) Analysis of linear sampled-data systems with amplitude modulation. (Russian. English summary) (Not in MR)

Zhang, Ping^3 *see* **Wu, Yong Shi^2; et al.**, (Not in MR)

Zhao, Jiu (*with* Lin, P. M.) Direct synthesis of constant resistance one-port networks. **89k:94098**

Zhou, Xin Jiu *see* **Yang, Shu Kong, 89k:94096**

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Items with secondary classifications in 94C05

Afanas′ev, S. A. (*with* Gribkov, D. A.; Kuznetsov, Yu. I.) Investigation of processes in a nonautonomous autostochastic system. (Russian) **89k:58166**

Ando, Tsuyoshi (*with* Bunce, John W.) The geometric mean, operator inequalities, and the Wheatstone bridge. **89a:47022**

Aronson, D. G. *see* **Doedel, E. J.; et al., 89f:58099**

Ayaki, Kenichiro *see* **Matsumoto, Takashi; et al., 89h:58125**

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Bahar, Leon Y. *see* **Kwatny, Harry G., 89m:34074**

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Beloded, N. I. (*with* Bondarenko, L. V.; Kravchenok, N. N.) Investigation of the dynamics of stabilization systems with pulse-width modulation on the basis of digital modeling methods. (Russian) (Not in MR)

(Bissell, C. C.) *see* **Kremer, H., 89f:65033**

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Bondarenko, L. V. *see* **Beloded, N. I.; et al.**, (Not in MR)

Brassard, Gilles (*with* Crépeau, Claude) Zero-knowledge simulation of Boolean circuits. **89c:94031**

Bruhn, B. *see* **Koch, B. P., 89b:70011**

Bruton, L. T. *see* **Liu, Qingli, 89k:94006**

Bunce, John W. *see* **Ando, Tsuyoshi, 89a:47022**

Butler, C. A. (*with* Morley, T. D.) A note on the shorted operator. **89c:15020**

Chen, Wai-Kai *see* **Sengoku, Masakazu, 89i:94062**

Chua, Leon O. (*with* Deng, An-Chang) Canonical piecewise-linear representation. **89c:58015**

— (*with* Lin, Tao) Chaos in digital filters. **89j:58076**

— (*with* Endo, Tetsuro) Multimode oscillator analysis via integral manifolds. I. Nonresonant case. **89b:34085a**

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Crépeau, Claude *see* **Brassard, Gilles, 89c:94031**

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Deng, An-Chang *see* **Chua, Leon O., 89c:58015**

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Dzliev, S. V. (*with* Savkin, A. V.; Solomyak, B. M.; Yakubovich, E. D.) Periodic regimes in a system of differential inclusions that describes a special class of electrical valve schemes. (Russian) **89d:34073**

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Ferrari, Pablo Augusto ★ Passeios aleatórios e redes elétricas. (Portuguese) [Random walks and electrical networks] **89k:60121**

Fettweis, A. A new approach to Hurwitz polynomials in several variables. **89d:93030**

(Fidler, J. K.) *see* **Kremer, H., 89f:65033**

Filaretov, V. V. Recursive methods for expressing the determinants of a nondirected graph. (Russian. English summary) (Not in MR)

Franke, Rainer *see* **Uhlmann, H., 89h:58151**

Gajski, Daniel *see* **Lursinsap, Chidchanok, 89k:94111**

González, José *see* **Sánchez P., J. M.**, (Not in MR)

Gribkov, D. A. *see* **Afanas′ev, S. A.; et al., 89k:58166**

Guarini, Marcello W. *see* **Palusinski, Olgierd A.; et al.**, (Not in MR)

Hasler, Martin J. *see* **Azzouz, Abdennasser, 89d:34083**

Huseyin, K. *see* **Yu, Pei, 89d:58098** *and* **89g:58162**

Ilic, Marija *see* **Sira-Ramirez, Hebertt J.**, (Not in MR)

Itoh, Takafumi *see* **Ohta, Yoshito; et al., 89i:90040**

Kabuo, Hideyuki *see* **Yamakawa, Takeshi, 89f:94036**

Kathirkamanayagan, M. (*with* Ladde, G. S.) Diagonalization and stability of large-scale singularly perturbed linear system. **89i:34082**

Kennedy, Michael Peter (*with* Chua, Leon O.) Neural networks for nonlinear programming. **89d:90192**

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Koch, B. P. (*with* Bruhn, B.) Transient chaos in weakly coupled Josephson junctions. (French summary) **89b:70011**

Kodama, Shinzo *see* **Ohta, Yoshito; et al., 89i:90040**

Kohn, Robert V. (*with* Vogelius, Michael) Relaxation of a variational method for impedance computed tomography. **89h:35339**

Komuro, Motomasa *see* **Tokunaga, R.; et al., 89j:58085**

Kravchenok, N. N. *see* **Beloded, N. I.; et al.**, (Not in MR)

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Kuklina, G. Ya. ★ О равномерной сходимости схемы Шарфеттера для одномерного уравнения переноса носителей заряда в полупроводниковых приборах. (Russian) [Uniform convergence of a Scharfetter scheme for a one-dimensional equation of the transport of charge carriers in semiconductors] **89h:65131**

Kuznetsov, Yu. I. *see* **Afanas′ev, S. A.; et al., 89k:58166**

Kwatny, Harry G. (*with* Bahar, Leon Y.) Some qualitative aspects of power system dynamics. **89m:34074**

Ladde, G. S. *see* **Kathirkamanayagan, M., 89i:34082**

Li, Feng A topological method for producing symbolic sensitivity functions of active networks. (Chinese. English summary) **89e:94027**

Lin, Tao *see* **Chua, Leon O., 89j:58076**

Liu, Qingli (*with* Bruton, L. T.) Design of 3-D planar and beam recursive digital filters using spectral transformations. **89k:94006**

(Liu, Yan Pei) *see* **Tutte, W. T., 89m:05042a**

Lursinsap, Chidchanok (*with* Gajski, Daniel) Improving a PLA area by pull-up transistor folding. **89k:94111**

Maeda, Hajime *see* **Ohta, Yoshito; et al., 89i:90040**

Matsumoto, Takashi (*with* Chua, Leon O.; Ayaki, Kenichiro) Reality of chaos in the double scroll circuit: a computer-assisted proof. **89h:58125**

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Milić, M. M. *see* **Bajić, Vladimir B., 89k:93154**

Milton, G. W. Multicomponent composites, electrical networks and new types of continued fraction. II. **89b:82085**

Mio, Masao *see* **Suzuki, Yoshihiko, 89h:94017**

Morley, T. D. *see* **Butler, C. A., 89c:15020**

Odintsova, V. I. *see* **Blagitko, B. Ya.; et al.**, (Not in MR)

Ohta, Yoshito (*with* Maeda, Hajime; Kodama, Shinzo; Itoh, Takafumi) Fault diagnosis of compartmental systems. **89i:90040**

Othmer, Hans G. *see* **Doedel, E. J.; et al., 89f:58099**

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Pedersen, N. F. (*with* Davidson, A.) Soliton experiments in annular Josephson junctions. (*see* **89f:58049**)

Pliquett, Jürgen *see* **Voelkel, Lutz, 89i:94061**

Qian, Min (*with* Shen, Wen Xian; Zhang, Jin Yan) Global behavior in the dynamical equation of J-J type. **89c:58092**

Rabyk, V. G. *see* **Blagitko, B. Ya.; et al.**, (Not in MR)

Resconi, G. Grow of a leaf by the new general system logical theory GSLT. (*see* **89a:94001**)

Robinson, F. N. H. The modified van der Pol oscillator. **89m:34046**

— An experimental investigation of a nonlinear Mathieu equation. **89m:58173**

Saet, Yuly A. (*with* Viviani, G. L.) On the simulation of a paradigm of nonlinear dynamics. **89k:58195**

Saito, Toshimichi On a coupled relaxation oscillator. **89j:34053**

Sánchez P., J. M. (*with* González, José) A method for minimizing the cost of synthesis of combinational circuits using the Tapia-Tucker method for solving a BES. (Spanish) (Not in MR)

Savkin, A. V. *see* **Dzliev, S. V.; et al., 89d:34073**

Sengoku, Masakazu (*with* Chen, Wai-Kai) An operator in signal flow graphs and its applications. **89i:94062**

Shen, Wen Xian *see* **Qian, Min; et al., 89c:58092**

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Sira-Ramirez, Hebertt J. (*with* Ilic, Marija) A geometric approach to the feedback control of switch mode DC-to-DC power supplies. (Not in MR)

— Sliding-mode control on slow manifolds of DC-to-DC power converters. **89b:93037**

Sivilotti, Massimo A. A dynamically configurable architecture for prototyping analog circuits. **89d:94065**

Sobolevskaya, M. P. Periodic solutions of a certain class of nonlinear systems. (Russian) **89a:34049**

Solomyak, B. M. *see* **Dzliev, S. V.; et al., 89d:34073**

Stepanov, A. V. An approximation variant of the implicit T-scheme for numerical integration. (Russian. English summary) (Not in MR)

Strang, Gilbert A framework for equilibrium equations. **89g:49024**

Sun, Shi Qian A new algorithm for matrix decomposition in linear, time-invariant singular systems and its applications in sensitivity calculations. (Chinese. English summary) (Not in MR)

Suzuki, Yoshihiko (*with* Mio, Masao) Structural controllability of electromechanical networks. **89h:94017**

Tanaka, Satoshi (*with* Matsumoto, Takashi; Chua, Leon O.) Bifurcation scenario in a driven R-L-diode circuit. **89b:58141**

Taubert, Klaus Accretive operators with applications to numerical integration of ordinary differential equations. **89m:47045**

Telegin, I. V. *see* **Udilov, V. V.**, (**89a:93001**)

Tikhonovetskiĭ, S. A. On the optimization of cyclic operating modes of an electric drive. (Russian) (Not in MR)

Tokunaga, R. Bifurcation analysis of a cusp-constrained piecewise linear circuit. **89k:58221**

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Tutte, W. T. Graph theory as I have known it. I. (Chinese) **89m:05042a**

Udilov, V. V. (*with* Telegin, I. V.) Application of the diacoptics of G. Kron for the investigation of dynamical systems. (Russian) (*see* **89a:93001**)

Uhlmann, H. (*with* Franke, Rainer) Zur Untersuchung des stationären Verhaltens von stark nichtlinearen, periodisch fremderregten dynamischen Netzwerken. [Investigation of the stationary behavior of strongly nonlinear dynamic networks with periodically forced excitation] **89h:58151**

Viviani, G. L. *see* **Saet, Yuly A., 89k:58195**

Voelkel, Lutz (*with* Pliquett, Jürgen) ★ Signaturanalyse. (German) [Signature analysis] **89i:94061**

Vogelius, Michael *see* **Kohn, Robert V., 89h:35339**

Wright, Stephen Joseph *see* **Palusinski, Olgierd A.; et al.**, (Not in MR)

Yakubovich, E. D. *see* **Dzliev, S. V.; et al., 89d:34073**

Yamakawa, Takeshi (*with* Kabuo, Hideyuki) A programmable fuzzifier integrated circuit—synthesis, design, and fabrication. **89f:94036**

Yu, Pei (*with* Huseyin, K.) A perturbation analysis of interactive static and dynamic bifurcations. **89g:58162**

— (*with* Huseyin, K.) Bifurcations associated with a double zero of index two and a pair of purely imaginary eigenvalues. **89d:58098**

Zhang, Jin Yan *see* **Qian, Min; et al., 89c:58092**

Zhou, Rong Xing The global structural stability and application of the toroidal differential equations $\dot{x} = a_1[\sin(x-y) - \sin x] - \Delta\omega$, $\dot{y} = a_2[\sin(y-x) - \sin y] - \Delta\omega$. **89j:58063**

Zoller, V. Curvature operators and electric circuits. **89b:53048**

94C10 Switching theory, applications of Boolean algebra [see also 06E30]

Andreev, A. E. Design of schemes of functional elements in complete monotone bases. (Russian) **89m:94025**

Artyukhov, V. L. (*with* Kondrat′ev, V. N.; Shalyto, A. A.) Realization of Boolean functions by arithmetic polynomials. **89i:94055**

Avsarkisyan, G. S. Recurrent polynomial forms of partial Boolean functions. (Not in MR)

Baĭzhumanov, A. A. *see* **Kabulov, A. V., 89i:94057**

Bibilo, P. N. The grouping of p-multiple separable Boolean functions. (Russian. English summary) **89e:94023**

Brand, Daniel (*with* Iyengar, Vijay S.) Timing analysis using functional analysis. **89k:94100**

Bshouty, Nader H. *see* **Seroussi, Gadiel, 89j:94049**

Chukhrov, I. P. *see* **Sapozhenko, A. A., 89d:94061**

Cutler, Robert Brian (*with* Muroga, Saburo) Derivation of minimal sums for completely specified functions. **89b:94035**

Dill, David L. Trace theory for automatic hierarchical verification of speed-independent circuits. **89e:94024**

Duan, Zhi Gang New algorithm to construct dual family. **89i:94056**

Dueck, G. W. (*with* Miller, D. Michael) On the minimization of a Boolean function of odd weight. **89f:94034**

Dzhavadov, R. M. On the problem of the approximation of Boolean functions by Zhegalkin polynomials. (Russian) **89d:94057**

Ecker, Klaus (*with* Schütt, Dieter) Testen von AND/EXOR-Feldern. (English and Russian summaries) [Testing of arrays of AND and EXOR functions] **89k:94101**

Gaitanis, Nicolaos Totally self-checking checkers with separate internal fault indication. **89j:94044**

Goetze, B. *see* **Kochetkov, D. V.; et al., 89j:94045**

González, José *see* **Sánchez P., J. M.,** (Not in MR)

Grinchuk, M. I. Complexity of the realization of a sequence of triangular Boolean matrices by gate schemes of varying depth. (Russian) **89d:94058**

— Complexity of the realization of cyclic Boolean matrices by gate circuits. **89k:94102**

Hu, Zheng Hao Three-valued b_j diagrams and their applications. (Chinese) (Not in MR)

Igamberdyev, T. M. The number of solutions of systems of Boolean equations. (Russian. English summary) **89m:94026**

Iyengar, Vijay S. *see* **Brand, Daniel, 89k:94100**

Jayasumana, A. P. *see* **Rajsuman, R.; et al., 89k:94104**

Jukna, Stasys Computations in lattices of partitions. (Russian and Lithuanian summaries) **89d:94059**

Kabulov, A. V. (*with* Baĭzhumanov, A. A.) A method for determining the maximal compatible subsystems of a system of Boolean equations. (Russian) **89i:94057**

Katerinochkina, N. N. A problem on the search for a maximal upper zero for some subclasses of monotone Boolean functions. (Russian) **89c:94052**

Kochetkov, D. V. (*with* Goetze, B.; Nehrlich, W.) Construction of maximal partial intervals. (German and Russian summaries) **89j:94045**

Kogan, A. Yu. Minimization of binary functions with a small number of zeros. (Russian) **89j:94046**

— On the disjunctive normal forms of Boolean functions with a small number of zeros. (Russian) **89e:94025**

— Lower bounds for the complexity of the disjunctive normal forms of Boolean functions with a small number of zeros. (Russian) **89g:94048**

Kondrat′ev, V. N. *see* **Artyukhov, V. L.; et al., 89i:94055**

Koroleva, Z. E. Some estimates for the complexity of realization of Boolean functions by schemes of functional elements. (Russian) **89j:94047**

Koshkin, M. A. *see* **Lozhkin, S. A., 89g:94050**

Krasulina, E. G. Complexity of the realization of monotone symmetric Boolean functions by switching circuits. (Russian) **89i:94058**

Lapshov, S. A. Automorphism groups, preserving the partitioning of the set E_k, of an algebra of finite-valued functions. (Russian) **89j:94048**

Li, Qing Ming *see* **Zheng, You Ming,** (Not in MR)

Lozhkin, S. A. Synthesis of contact and relay-contact schemes by means of structural decomposition. (Russian) **89g:94049**

— (*with* Koshkin, M. A.) Complexity of the realization of some systems of Boolean functions by multiterminal switching circuits. **89g:94050**

Malaiya, Y. K. *see* **Rajsuman, R.; et al., 89k:94104**

Miller, D. Michael *see* **Dueck, G. W., 89f:94034**

Morozov, A. M. Orthogonal transformations of logic functions. (Russian. English summary) **89g:94051**

Moshkov, M. Yu. Reducibility of various types of contact schemes to schemes of functional elements. (Russian) **89k:94103**

Mukaidono, Masao *see* **Yamamoto, Yoshinori, 89d:94063**

Muroga, Saburo *see* **Cutler, Robert Brian, 89b:94035**

Nehrlich, W. *see* **Kochetkov, D. V.; et al., 89j:94045**

Pippenger, Nicholas Reliable computation by formulas in the presence of noise. (Not in MR)

Pliquett, Jürgen *see* **Voelkel, Lutz, 89i:94061**

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(Rine, David C.) *see* **Computer science and multiple-valued logic, 89a:94026**

Rybko, A. I. Switching circuits that correct closures and admit control. (Russian) **89i:94059**

Sánchez P., J. M. (*with* González, José) A method for minimizing the cost of synthesis of combinational circuits using the Tapia-Tucker method for solving a BES. (Spanish) (Not in MR)

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Sapozhnikov, V. V. (*with* Sapozhnikov, Vl. V.) Design for time-optimal checkers for codes with constant weight. **89k:94105**

Sapozhnikov, Vl. V. *see* **Sapozhnikov, V. V., 89k:94105**

Schütt, Dieter *see* **Ecker, Klaus, 89k:94101**

Seroussi, Gadiel (*with* Bshouty, Nader H.) Vector sets for exhaustive testing of logic circuits. **89j:94049**

Shalyto, A. A. *see* **Artyukhov, V. L.; et al., 89i:94055**

Shkalikova, N. A. Complexity of realization of universal Boolean functions by schemes of cellular elements. (Russian) **89b:94036**

Skobelev, V. G. Investigation of the controllability of combinational circuits. **89e:94026**

Stetsenko, V. A. Construction of chains of incomplete Boolean bases. (Russian. English and Lithuanian summaries) **89i:94060**

— Comparison of Boolean bases. **89j:94050**

Tabakow, I. G. Fast test generation for m-logic combinational circuits. (Not in MR)

Ugol′nikov, A. B. The complexity of realization of Boolean functions by schemes in a basis of median and implication. (Russian) **89a:94025**

— Realization of functions in closed classes by schemes of functional elements. (Russian) **89k:94106**

Velinov, Yu. P. General characterization of simple decomposition forms of finite-valued functions. (Bulgarian. English and Russian summaries) **89d:94062**

Voelkel, Lutz (*with* Pliquett, Jürgen) ★ Signaturanalyse. (German) [Signature analysis] **89i:94061**

Wang, Wen Zhang An iterative method and its applications. (Chinese. English summary) **89k:94107**

Xie, Chun Hua (*with* Zou, Rui) An improved pseudocircuit approach. (Chinese. English summary) (Not in MR)

Yamamoto, Yoshinori (*with* Mukaidono, Masao) Meaningful special classes of ternary logic functions—regular ternary logic functions and ternary majority functions. **89d:94063**

Yang, Yao Chi An upper bound for the number of fuzzy switching functions of n variables. (Chinese. English summary) **89m:94027**

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Zou, Rui *see* **Xie, Chun Hua,** (Not in MR)

Items listed otherwise than by author

Computer science and multiple-valued logic ★ Computer science and multiple-valued logic. **89a:94026**

Items with secondary classifications in 94C10

Bennett, A. Wayne *see* **Tucker, Jerry H.; et al., 89m:26035**

Boesch, F. T. *see* **Yang, C. S.; et al., 89g:94054**

Chetverikov, G. G. (*with* Kirilenko, T. V.) A generalized method for minimizing the totality of finite predicates. (Russian) **89b:03101**

Chimev, K. N. Strongly essential variables and separable sets of arguments of functions. (Bulgarian. English and Russian summaries) **89e:04002**

Dantsin, E. Ya. The algorithmics of the satisfiability problem. (Russian) **89h:03012**

Emel′yanov, N. R. *see* **Garashchuk, M. M., 89b:94037**

Evdokimov, A. A. Metric properties of embeddings, and codes that preserve distance. (Russian) **89i:94039**

Friedman, Steven J. (*with* Supowit, Kenneth J.) Finding the optimal variable ordering for binary decision diagrams. **89j:90006**

Garashchuk, M. M. (*with* Emel′yanov, N. R.) Algorithms for constructing tests. (Russian) **89b:94037**

Gashkov, S. B. Computational complexity of some classes of polynomials of several variables. **89h:68061**

Gurvich, V. A. *see* **Gvishiani, A. D., 89f:90051**

Gvishiani, A. D. (*with* Gurvich, V. A.) Metric and ultrametric resistance spaces. (Russian) **89f:90051**

Gyudzhenov, I. D. The number of functions in P_k with an incomplete graph. (Bulgarian. English and Russian summaries) **89i:03046**

Hammer, P. L. (*with* Simeone, B.; Liebling, Th. M.; de Werra, D.) From linear separability to unimodality: a hierarchy of pseudo-Boolean functions. **89m:68059**

Huang, Jin Ming (*with* Zou, Rui) Fault location in linear circuits with tolerance. (Chinese. English summary) **89g:94045**

Jukna, Stasys On an entropic method for obtaining lower bounds on the complexity of Boolean functions. **89g:68020**

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Kirilenko, T. V. *see* **Chetverikov, G. G., 89b:03101**

Kosovskiĭ, N. K. A lower bound on circuit complexity in the reduction of exponential enumeration. (Russian) **89e:03109**

Li, Chao Yen *see* **Yang, C. S.; et al., 89g:94054**

Liebling, Th. M. *see* **Hammer, P. L.; et al., 89m:68059**

Nakayama, Kenji (*with* Takahashi, Yutaka[2]; Sato, Yayoi; Nukada, Yasuaki) An adaptive SC line equalizer system for four-wire full-duplex and multirate digital transmission. (Not in MR)

Ni, Lionel M. *see* **Wu, Ching-Farn E.; et al., 89k:94093**

Nigmatullin, R. G. Models of lower-bounds proofs. **89a:68077**

Nukada, Yasuaki *see* **Nakayama, Kenji; et al.,** (Not in MR)

Okol′nishnikova, E. A. The effect of negations on the complexity of the realization of a system of monotone Boolean functions. (Russian) **89d:68019**

Qi, Zhong Tao Some properties of a class of Boolean functions. **89g:06032**

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Reischer, Corina (*with* Simovici, Dan A.) New functional characterization of Boolean and Post algebras. **89c:06017**

Roman, Steven ★ An introduction to discrete mathematics. **89e:05003**
Sato, Yayoi *see* **Nakayama, Kenji; et al.**, (Not in MR)
Shamsiev, R. N. *see* **Sukhov, Yu. M., 89f:90056**
Simeone, B. *see* **Hammer, P. L.; et al., 89m:68059**
Simovici, Dan A. *see* **Reischer, Corina, 89c:06017**
Skarbek, Władysław *see* **Kapralski, Adam**, (Not in MR)
Stetsenko, V. A. Comparison of the bases of monotone Boolean functions. (Russian) **89a:03121**
Stojmenović, I. ★ Some combinatorial and algorithmic problems in many-valued logics. **89g:03034**
Sukhov, Yu. M. (*with* Shamsiev, R. N.) Hybrid switching networks on an infinite one-dimensional lattice. (Russian) **89f:90056**
Supowit, Kenneth J. *see* **Friedman, Steven J., 89j:90006**
Takahashi, Yutaka^2 *see* **Nakayama, Kenji; et al.**, (Not in MR)
Tapia, Moiez A. *see* **Tucker, Jerry H.; et al., 89m:26035**
Tardos, Éva The gap between monotone and nonmonotone circuit complexity is exponential. **89j:68073**
Tucker, Jerry H. (*with* Tapia, Moiez A.; Bennett, A. Wayne) Boolean integral calculus. **89m:26035**
Ugol'nikov, A. B. The depth and polynomial equivalence of formulas for closed classes of two-valued logic. (Russian) **89c:03099**
— The depth of formulas in incomplete bases. (Russian) **89k:03083**
— On the depth and complexity of formulas that realize functions in closed classes. **89g:03035**
Volgin, L. I. Component basis for a predicate algebra of selection. **89g:03036**
Wang, Ching Fa *see* **Yang, C. S.; et al., 89g:94054**
Wegener, Ingo ★ The complexity of Boolean functions. **89b:03066**
de Werra, D. *see* **Hammer, P. L.; et al., 89m:68059**
Wojcik, Anthony S. *see* **Wu, Ching-Farn E.; et al., 89k:94093**
Wu, Ching-Farn E. (*with* Wojcik, Anthony S.; Ni, Lionel M.) A rule-based circuit representation for automated CMOS design and verification. **89k:94093**
Yang, C. S. (*with* Wang, Ching Fa; Li, Chao Yen; Boesch, F. T.) Graph theoretic reliability analysis for the Boolean n cube networks. **89g:94054**
Zakrevskiĭ, A. D. Disjunctive normal forms of finite predicates. (Russian) **89i:03115**
Zou, Rui *see* **Huang, Jin Ming, 89g:94045**

94C15 Applications of graph theory [see also 05Cxx, 68Q90, 68R10]

Bakirov, V. L. *see* **Tsybakov, B. S., 89g:94053**
Bednarchuk, V. N. A method for joining the vertices of a graph. (Russian. English summary) **89d:94064**
Boesch, F. T. *see* **Yang, C. S.; et al., 89g:94054**
Chen, Wai-Kai *see* **Sengoku, Masakazu, 89i:94062**
Dzhamal', A. A. (*with* Sushkov, Yu. A.) An approximation problem in multimode systems. (Russian) (Not in MR)
Emel'yanov, N. R. *see* **Garashchuk, M. M., 89b:94037**
Farley, Arthur M. Reliable minimum-time broadcast networks. **89f:94035**
Feldman, Paul (*with* Friedman, Joel; Pippenger, Nicholas) Wide-sense nonblocking networks. **89g:94052**
Filaretov, V. V. Recursive methods for expressing the determinants of a nondirected graph. (Russian. English summary) (Not in MR)
Friedman, Joel *see* **Feldman, Paul; et al., 89g:94052**
Fujisawa, Toshio *see* **Masuda, Sumio; et al., 89h:94016**
Gajski, Daniel *see* **Lursinsap, Chidchanok, 89k:94111**
Garashchuk, M. M. (*with* Emel'yanov, N. R.) Algorithms for constructing tests. (Russian) **89b:94037**
Hayes, John P. *see* **Maziasz, Robert L., 89k:94112**
Kashiwabara, Toshinobu *see* **Masuda, Sumio; et al., 89h:94016**
Kinnen, Edwin *see* **Kózmiński, Krzysztof A., 89k:94108**
Kózmiński, Krzysztof A. (*with* Kinnen, Edwin) Rectangular dualization and rectangular dissections. **89k:94108**
Kraśniewski, Andrzej (*with* Pilarski, Sławomir) Circular self-test path: a low-cost BIST technique. **89k:94109**
Li, Chao Yen *see* **Yang, C. S.; et al., 89g:94054**
Li, Feng A topological method for producing symbolic sensitivity functions of active networks. (Chinese. English summary) **89e:94027**
Liestman, Arthur L. (*with* Peters, Joseph G.) Broadcast networks of bounded degree. **89k:94110**
Lursinsap, Chidchanok (*with* Gajski, Daniel) Improving a PLA area by pull-up transistor folding. **89k:94111**
Masuda, Sumio (*with* Kashiwabara, Toshinobu; Fujisawa, Toshio) On single layer routing with no wires passing between adjacent pins. **89h:94016**
Maziasz, Robert L. (*with* Hayes, John P.) Layout optimization of CMOS functional cells. **89k:94112**
Mio, Masao *see* **Suzuki, Yoshihiko, 89h:94017**
Peters, Joseph G. *see* **Liestman, Arthur L., 89k:94110**
Pilarski, Sławomir *see* **Kraśniewski, Andrzej, 89k:94109**
Pippenger, Nicholas *see* **Feldman, Paul; et al., 89g:94052**
Prohazka, Craig G. Bounding the maximum size of a packet radio network. (Not in MR)
Scheinerman, Edward R. Almost sure fault tolerance in random graphs. **89c:94053**
Sengoku, Masakazu (*with* Chen, Wai-Kai) An operator in signal flow graphs and its applications. **89i:94062**
Sivilotti, Massimo A. A dynamically configurable architecture for prototyping analog circuits. **89d:94065**
Sushkov, Yu. A. *see* **Dzhamal', A. A.**, (Not in MR)
Suzuki, Yoshihiko (*with* Mio, Masao) Structural controllability of electromechanical networks. **89h:94017**
Tsybakov, B. S. (*with* Bakirov, V. L.) Analysis of the stability of a network with packet switching and its application to the construction of a unified approach to synchronous and asynchronous radio networks with the Aloha algorithm. **89g:94053**
Wang, Ching Fa *see* **Yang, C. S.; et al., 89g:94054**
Yang, C. S. (*with* Wang, Ching Fa; Li, Chao Yen; Boesch, F. T.) Graph theoretic reliability analysis for the Boolean n cube networks. **89g:94054**

Items with secondary classifications in 94C15

Alon, Noga Asynchronous threshold networks. **89e:90079**
Althoen, S. C. (*with* Bumcrot, Robert J.) ★ Introduction to discrete mathematics. **89f:05001**
Aschbacher, Michael (*with* Baldi, Pierre; Baum, Eric; Wilson, R. M.) Embeddings of ultrametric spaces in finite-dimensional structures. **89d:54020**
Assimakopoulos, Nikitas Distributed decision making in cybernetic systems. (Not in MR)
Baldi, Pierre *see* **Aschbacher, Michael; et al., 89d:54020**
Ball, Michael O. *see* **Ramesh, Aparna; et al., 89c:68012**
Baum, Eric *see* **Aschbacher, Michael; et al., 89d:54020**
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Brualdi, Richard A. Some applications of doubly stochastic matrices. **89k:15036**
Bumcrot, Robert J. *see* **Althoen, S. C., 89f:05001**
Cheng, Ying (*with* Hwang, F. K.) Diameters of weighted double loop networks. **89k:90051**
Cherkasskiĭ, B. V. A new algorithm for the generation of spanning trees. (Russian. English summary) **89a:05052**
Chernyak, A. A. Pseudodominant-threshold graphs. I. (Russian. English summary) **89k:05047**
Choi, Hyeong-Ah (*with* Nakajima, Kazuo; Rim, Chong S.) Graph bipartization and via minimization. **89m:90132**
Chowdhury, Salim U. An automated design of minimum-area IC power/ground nets. **89k:94083**
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— *see also* **Ramesh, Aparna; et al., 89c:68012**
Danilov, L. V. (*with* Pankin, V. V.; Sotnikov, D. D.) Some new applications of the Tellegen theorem in the general theory of electrical circuits and in the theory of gate circuits. (Russian. English summary) **89g:94044**
Dill, David L. Trace theory for automatic hierarchical verification of speed-independent circuits. **89e:94024**
Dolev, Danny *see* **Broder, Andrei; et al., 89f:68007**
Doyle, Peter G. (*with* Snell, J. Laurie) ★ Random walks and electric networks. **89a:94023**
Dubrovskiĭ, O. V. *see* **Kobzev, V. G.; et al., 89d:05089**
Fischer, Michael *see* **Broder, Andrei; et al., 89f:68007**
Fitingof, Boris (*with* Waksman, Zeev) Fused trees and some new approaches to source coding. **89k:94032**
Friedman, Joel A lower bound on strictly nonblocking networks. **89k:05056**
Goldman, Sally A. (*with* Rivest, Ronald L.) Making maximum entropy computations easier by adding extra constraints (extended abstract). (*see* **89f:62002**)
Govorukhin, D. N. *see* **Volkov, E. A.; et al., 89i:94053**
Grinchuk, M. I. Complexity of the realization of a sequence of triangular Boolean matrices by gate schemes of varying depth. (Russian) **89d:94058**
Hedetniemi, S. T. *see* **Hedetniemi, Sandra M.; et al., 89h:90087**
Hedetniemi, Sandra M. (*with* Hedetniemi, S. T.; Liestman, Arthur L.) A survey of gossiping and broadcasting in communication networks. **89h:90087**
Hooker, J. N. Networklike metric spaces. **89d:05062**
Hwang, F. K. *see* **Cheng, Ying, 89k:90051**
Imase, Makoto *see* **Soneoka, Terunao; et al., 89m:90079**
Kobzev, A. G. *see* **Kobzev, V. G.; et al., 89d:05089**
Kobzev, V. G. (*with* Dubrovskiĭ, O. V.; Kobzev, A. G.; Manukyan, L. A.) Solution of a problem of the choice of a set of testing regimes by methods of graph theory. (Russian. Armenian summary) **89d:05089**
Koval'skaya, L. V. *see* **Volkov, E. A.; et al., 89i:94053**
Krarup, Jakob *see* **Clausen, Jens, 89j:68120**
Krasilovets, L. V. An algorithm for topological synthesis of communication networks. **89m:90065**
Kuh, Ernest S. *see* **Xiong, Xiao-Ming, 89m:90066**
Kumagai, Sadatoshi Modelling and analysis of distributed systems: a net theoretic approach. **89i:93005**
Kurabayashi, Yoshio *see* **Sugasawa, Yoshio; et al., 89i:68099**
Lábos, E. Convergence, cycling or strange motion in the adaptive synthesis of neurons. **89j:68130**
Liestman, Arthur L. *see* **Hedetniemi, Sandra M.; et al., 89h:90087**
Lipski, Witold, Jr. (*with* Preparata, F. P.) A unified approach to layout wirability. **89a:68174**
(Liu, Yan Pei) *see* **Tutte, W. T., 89m:05042a** *and* **89m:05042c**
Manabe, Yoshifumi *see* **Soneoka, Terunao; et al., 89m:90079**
Mansour, Y. (*with* Zaks, S.) On the bit complexity of distributed computations in a ring with a leader. **89b:68038**
Manukyan, L. A. *see* **Kobzev, V. G.; et al., 89d:05089**
McKee, T. A. A local analogy between directed and signed graphs. **89a:05075**
Moon, J. W. Some enumerative results on series-parallel networks. **89h:05004**
Murata, Koichi *see* **Sugasawa, Yoshio; et al., 89i:68099**
Nakajima, Kazuo *see* **Choi, Hyeong-Ah; et al., 89m:90132**
Pankin, V. V. *see* **Danilov, L. V.; et al., 89g:94044**
Papacostas Casanova, Alcibíades Circuit design: computational complexity of the problem of the least number of cards without bridges. (Spanish) (*see* **89k:00009**)
Paterson, M. S. Universal chains and wiring layouts. **89d:68072**
Pilz, Günter F. ★ Endliche Strukturen. (German) [Finite structures] **89g:00002**
Preparata, F. P. *see* **Lipski, Witold, Jr., 89a:68174**

Ramesh, Aparna (*with* Ball, Michael O.; Colbourn, Charles J.) Bounds for all-terminal reliability in planar networks. **89c:68012**
Rim, Chong S. *see* **Choi, Hyeong-Ah; et al., 89m:90132**
Rivest, Ronald L. *see* **Goldman, Sally A., (89f:62002)**
Rouault, Alain ★ Superconcentrateurs. (French) [Superconcentrators] **89a:05091**
Schaumann, Rolf *see* **Tan, Mehmet A.,** (Not in MR)
Sgurev, Vasil S. A network flow with nonlinear capacity constraints. (Russian summary) **89j:90104**
Sharipova, M. M. The optimal topology of a network. (Russian) **89b:90079**
Smith, Derek H. Graph colouring and frequency assignment. **89f:05082**
Snell, J. Laurie *see* **Doyle, Peter G., 89a:94023**
Soneoka, Terunao (*with* Manabe, Yoshifumi; Imase, Makoto) A design of reliable networks using node redundancy. **89m:90079**
Sotnikov, D. D. *see* **Danilov, L. V.; et al., 89g:94044**
Sugasawa, Yoshio (*with* Murata, Koichi; Kurabayashi, Yoshio) Analysis of probabilistic behavior of the system with nonregeneration points interpreted as Petri net by Markov renewal processes. **89i:68099**
Tan, Mehmet A. (*with* Schaumann, Rolf) Simulating general-parameter LC-ladder filters for monolithic realizations with only transconductance elements and grounded capacitors. (Not in MR)
Topkis, Donald M. A *k* shortest path algorithm for adaptive routing in communications networks. **89f:90057**
Tutte, W. T. Graph theory as I have known it. I. (Chinese) **89m:05042a**
— Graph theory as I have known it. III. (Chinese) **89m:05042c**
Volkov, E. A. (*with* Govorukhin, D. N.; Koval′skaya, L. V.; Yakovlenko, V. V.) An algorithm for the analysis of the steady-state mode of an electrical circuit with complex nonlinearities under polyharmonic action. (Russian. English summary) **89i:94053**
Waksman, Zeev *see* **Fitingof, Boris, 89k:94032**
Wawryn, Krzysztof Layout including parasitics for printed circuit boards. **89c:94051**
Wilson, R. M. *see* **Aschbacher, Michael; et al., 89d:54020**
Xiong, Xiao-Ming (*with* Kuh, Ernest S.) A unified approach to the via minimization problem. **89m:90066**
Yakovlenko, V. V. *see* **Volkov, E. A.; et al., 89i:94053**
Zaks, S. *see* **Mansour, Y., 89b:68038**

94C30 Applications of design theory [see also 05Bxx]

Bennett, Byron J. A new filter synthesis technique—the hourglass. **89j:94051**
Irshid, Mansour I. A simple method of determining Hadamard sequency vectors. **89d:94066**

Items with secondary classifications in 94C30

Ahamed, Syed V. *see* **Miller, Michael J., 89c:94002a** *and* **89c:94002b**
(Bannai, Eiichi) *see* **Conway, J. H., 89a:11067**
Chaiken, Seth Extremal length and width of blocking polyhedra, Kirchhoff spaces and multiport networks. **89k:90165**
Chen, Ting Huai (*with* Kang, Tai; Yao, Rong) The connectivity of hypergraphs and the design of a fault-tolerant multibus. **89m:68109**
Conway, J. H. (*with* Sloane, N. J. A.) ★ Sphere packings, lattices and groups. **89a:11067**
Dillon, J. F. (*with* Wertheimer, M. A.) Graphs, codes, and designs in quadrics. **89h:51012**
Hayes, John P. *see* **Maziasz, Robert L., 89k:94112**
Kang, Tai *see* **Chen, Ting Huai; et al., 89m:68109**
Kezunovic, M. *see* **Peruničić, B.; et al., 89i:94052**
Klemm, Michael Über die Identität von MacWilliams für die Gewichtsfunktion von Codes. [On the identity of MacWilliams for the weight function of codes] **89b:94031**
Kreso, S. *see* **Peruničić, B.; et al., 89i:94052**
(Leech, John) *see* **Conway, J. H., 89a:11067**
Maziasz, Robert L. (*with* Hayes, John P.) Layout optimization of CMOS functional cells. **89k:94112**
Miller, Michael J. (*with* Ahamed, Syed V.) ★ Digital transmission systems and networks. Vol. I. **89c:94002a**
— (*with* Ahamed, Syed V.) ★ Digital transmission systems and networks. Vol. II. **89c:94002b**
Neumaier, A. (*with* Seidel, J. J.) Discrete measures for spherical designs, eutactic stars and lattices. **89i:05072**
(Norton, S. P.) *see* **Conway, J. H., 89a:11067**
(Odlyzko, A. M.) *see* **Conway, J. H., 89a:11067**
(Parker, R. A.) *see* **Conway, J. H., 89a:11067**
Peruničić, B. (*with* Kezunovic, M.; Kreso, S.) Bilinear form approach to synthesis of a class of electric circuit digital signal processing algorithms. **89i:94052**
(Queen, L.) *see* **Conway, J. H., 89a:11067**
Seidel, J. J. *see* **Neumaier, A., 89i:05072**
Sloane, N. J. A. *see* **Conway, J. H., 89a:11067**
Stinson, D. R. A construction for authentication/secrecy codes from certain combinatorial designs. **89f:94018**
— Some constructions and bounds for authentication codes. **89e:94011**
Tonchev, Vladimir D. Symmetric designs without ovals and extremal self-dual codes. **89c:94040**
(Venkov, B. B.) *see* **Conway, J. H., 89a:11067**
Wertheimer, M. A. *see* **Dillon, J. F., 89h:51012**
Yablonskaya, K. A. Properties of the realizability domain of fractional-rational functions of the third degree. (Russian) **89k:94095**
Yao, Rong *see* **Chen, Ting Huai; et al., 89m:68109**

94C99 None of the above, but in this section

Čajka, Josef (*with* Pospíšil, Jiří) Sum and product decompositions of the scattering matrix and their realization. (Czech summary) (Not in MR)
Pospíšil, Jiří *see* **Čajka, Josef,** (Not in MR)

Items with secondary classifications in 94C99

Anderson, W. N. (*with* Trapp, G. E.) Network matrix operations for vectors and quaternions. **89k:15046**
Antonio, John K. *see* **Tsai, Wei K.; et al., 89k:65079**
Avsarkisyan, G. S. Quasipolynomial forms of the functions of *k*-valued logic. (Russian. English summary) **89j:03017**
Baldi, Pierre Neural networks, orientations of the hypercube, and algebraic threshold functions. **89h:68115**
Capocelli, R. M. (*with* Giancarlo, Raffaele) Efficient VLSI networks for converting an integer from binary system to residue number system and vice versa. **89i:68066**
Ebergen, J. C. ★ Translating programs into delay-insensitive circuits. **89m:68027**
Gečas, Kastytis On the structure of the interrelation predicate. (Russian. English and Lithuanian summaries) **89h:68002**
Giancarlo, Raffaele *see* **Capocelli, R. M., 89i:68066**
Hasebe, Takayuki *see* **Kurosawa, Kaoru, 89j:90097**
Huang, Garng *see* **Tsai, Wei K.; et al., 89k:65079**
Kelly, F. P. Routing in circuit-switched networks: optimization, shadow prices and decentralization. **89k:90062**
Kirzhner, V. M. *see* **Vaĭner, V. G.; et al., 89j:90107**
Kraśniewski, Andrzej (*with* Pilarski, Sławomir) Circular self-test path: a low-cost BIST technique. **89k:94109**
Kurosawa, Kaoru (*with* Hasebe, Takayuki) Consideration on a nonlinear multicommodity flow problem in a packet switching network. **89j:90097**
Pilarski, Sławomir *see* **Kraśniewski, Andrzej, 89k:94109**
Podkolzin, A. S. (*with* Ush·chumlich, Sh. M.) On states accessibility in automata schemes. **89h:68058**
Trapp, G. E. *see* **Anderson, W. N., 89k:15046**
Tsai, Wei K. Convergence of gradient projection routing methods in an asynchronous stochastic quasi-static virtual circuit network. **89k:65078**
— (*with* Huang, Garng; Antonio, John K.; Tsai, Wei T.) Distributed iterative aggregation algorithms for box-constrained minimization problems and optimal routing in data networks. **89k:65079**
Tsai, Wei T. *see* **Tsai, Wei K.; et al., 89k:65079**
Ush·chumlich, Sh. M. *see* **Podkolzin, A. S., 89h:68058**
Vaĭner, V. G. (*with* Zaĭtsev, I. D.; Kirzhner, V. M.) A dynamic problem of the linking of a communication network. (Russian. English summary) **89j:90107**
Xia, Guo Hong A conception of a failure self-diagnosis system. (Chinese. English summary) **89h:90117**
Yablonskiĭ, S. V. Some problems of the reliability and control of guided systems. (Russian) **89m:93060**
Zaĭtsev, I. D. *see* **Vaĭner, V. G.; et al., 89j:90107**

94D05 Fuzzy sets and logic [see also 03B52, 03E72]

Bedrosian, Samuel D. *see* **Xie, Wei Xin,** (Not in MR)
Cao, Hai Xing Fast fuzzy systems. (Chinese. English summary) **89g:94055**
Diduk, N. N. Information-theoretic comparison of fuzziness and probabilistic indeterminacy. I. **89g:94056**
— Information-theoretic comparison of fuzziness and probabilistic indeterminacy. II. **89g:94057**
Èkel′, P. Ya. Fuzzy coefficients in models of discrete optimization of electric circuits. (Russian) (*see* **89h:00001**)
Folger, Tina A. *see* **Klir, G. J., 89e:94028**
de Glas, Michel An axiomatics for fuzzy information. **89g:94058**
Jin, Zheng Da On the realization of logic circuits for fuzzy functions. (Chinese. English summary) (Not in MR)
Kabuo, Hideyuki *see* **Yamakawa, Takeshi, 89f:94036**
Kaipov, V. Kh. (*with* Kozhanova, E. V.) Application of the theory of fuzzy sets in control problems (a survey). (Russian) **89k:94113**
Kejak, Michal Simulation of fuzzy system dynamics models. (*see* **89g:00018**)
Kiyasbeĭli, Sh. A. (*with* Mamedov, V. M.) Differences between fuzzy set and probability theories. **89c:94054**
Klir, G. J. (*with* Folger, Tina A.) ★ Fuzzy sets, uncertainty, and information. **89e:94028**
Kozhanova, E. V. *see* **Kaipov, V. Kh., 89k:94113**
Lü, Yong Zai *see* **Xu, Cheng Wei, 89j:94052**
Mamedov, V. M. *see* **Kiyasbeĭli, Sh. A., 89c:94054**
Stachowicz, Marian S. Theory of fuzzy sets and its applications—a retrospective. (Polish. English and Russian summaries) **89d:94067**
Xie, Wei Xin (*with* Bedrosian, Samuel D.) Experimentally derived fuzzy membership function for gray level images. (Not in MR)
Xu, Cheng Wei (*with* Lü, Yong Zai) Identification and self-learning of fuzzy models for dynamical systems. (Chinese. English summary) **89j:94052**
Yamakawa, Takeshi (*with* Kabuo, Hideyuki) A programmable fuzzifier integrated circuit—synthesis, design, and fabrication. **89f:94036**

Items with secondary classifications in 94D05

Bandler, Wyllis *see* **Oh, Kyung Whan, 89j:03020**
Baronets, V. D. Specialized devices for processing vague information. (Russian) (*see* **89h:00001**)
Fernández, Manuel J. (*with* Suárez García, Fermín) *t*-compositions of fuzzy relations. (Spanish. English summary) **89f:03049**
Gil, María Angeles Bayesian decision making with previous probabilistic uncertainty and actual fuzzy imprecision. **89i:62014**
Gu, Ji Fa (*with* Wang, Xu Zhu) A class of ranking methods of alternatives. (Chinese. English summary) **89h:90014**
Höhle, Ulrich A general theory of fuzzy plausibility measures. **89e:60007**
Ichihashi, H. (*with* Tanaka, Hideo) A fuzzy fault tree formulated by a class of fuzzy measures. **89k:03068**

Ivakhnenko, A. G. Objective clusterization on the basis of the theory of self-organization of models. (Not in MR)
Jasiński, Bogdan *see* **Pykacz, Jarosław, 89j:94040**
Jumarie, Guy Observation with informational invariance: introduction to a new modeling of fuzzy arithmetics. **89d:94021**
Kang, G. T. *see* **Sugeno, M., 89i:93116**
Klir, G. J. Where do we stand on measures of uncertainty, ambiguity, fuzziness, and the like? **89b:00037**
Krishna, G. *see* **Shekar, B.; et al., 89m:68127**
Kubic, William L., Jr. (*with* Stein, Fred P.) A theory of design reliability using probability and fuzzy sets. **89d:93045**
Leitch, Roy Qualitative modelling of physical systems for knowledge based control. (*see* **89g:93002**)
Mohanty, B. K. *see* **Rao, J. R.; et al., 89h:90009**
Narasimha Murty, M. *see* **Shekar, B.; et al., 89m:68127**
Oh, Kyung Whan (*with* Bandler, Wyllis) Properties of fuzzy implication operators. **89j:03020**
Pawlak, Zdzisław On rough relations. (Russian summary) **89b:04004**
Piskunov, A. I. A structural approach to the analysis of fuzzily formalized systems. I. Equivalent transformations of fuzzily formalized systems. (Not in MR)
Pykacz, Jarosław (*with* Jasiński, Bogdan) Physical realization of max, min and $1 - f(x)$ fuzzy connectives. **89j:94040**
Rao, J. R. (*with* Tiwari, R. N.; Mohanty, B. K.) Preference structure on alternatives and judges in a group decision problem—a fuzzy approach. **89h:90009**
— (*with* Saraswati, K.) Facility location problem on a network under multiple criteria—fuzzy set theoretic approach. **89j:90102**
Ray, K. S. Application of fuzzy logic controller to a block-decoupled nonlinear steam generating unit (210 [MW]). (Not in MR)
Sander, Wolfgang On measures of fuzziness. **89j:03046**
Saraswati, K. *see* **Rao, J. R., 89j:90102**
Shao, Shi Huang Fuzzy self-organizing controller and its application for dynamic processes. **89c:93043**
Shekar, B. (*with* Narasimha Murty, M.; Krishna, G.) Structural aspects of semantic-directed clusters. **89m:68127**
Stein, Fred P. *see* **Kubic, William L., Jr., 89d:93045**
Suárez García, Fermín *see* **Fernández, Manuel J., 89f:03049**
Sugeno, M. (*with* Kang, G. T.) Structure identification of fuzzy model. **89i:93116**
Tanaka, Hideo *see* **Ichihashi, H., 89k:03068**
Tiwari, R. N. *see* **Rao, J. R.; et al., 89h:90009**
Wang, Xu Zhu *see* **Gu, Ji Fa, 89h:90014**
Wygralak, Maciej Rough sets and fuzzy sets—some remarks on interrelations. **89k:03072**
Xiong, Bing Kun *see* **Ye, Chun**, (Not in MR)
Yang, Yao Chi An upper bound for the number of fuzzy switching functions of n variables. (Chinese. English summary) **89m:94027**
Ye, Chun (*with* Xiong, Bing Kun) A fuzzy mathematical method for analog circuit fault diagnosis. (Chinese. English summary) (Not in MR)

1980 MATHEMATICS SUBJECT CLASSIFICATION

(1985 Revision)

Compiled in the Editorial Offices of MATHEMATICAL REVIEWS and ZENTRALBLATT FÜR MATHEMATIK

TABLE OF CONTENTS

00 General
01 History and biography
03 Mathematical logic and foundations
04 Set theory
05 Combinatorics
06 Order, lattices, ordered algebraic structures
08 General mathematical systems
11 Number theory
12 Field theory and polynomials
13 Commutative rings and algebras
14 Algebraic geometry
15 Linear and multilinear algebra; matrix theory
16 Associative rings and algebras
17 Nonassociative rings and algebras
18 Category theory, homological algebra
19 K-theory
20 Group theory and generalizations
22 Topological groups, Lie groups
26 Real functions
28 Measure and integration
30 Functions of a complex variable
31 Potential theory
32 Several complex variables and analytic spaces
33 Special functions
34 Ordinary differential equations
35 Partial differential equations
39 Finite differences and functional equations
40 Sequences, series, summability
41 Approximations and expansions
42 Fourier analysis
43 Abstract harmonic analysis
44 Integral transforms, operational calculus
45 Integral equations
46 Functional analysis
47 Operator theory
49 Calculus of variations and optimal control; optimization
51 Geometry
52 Convex sets and related geometric topics
53 Differential geometry
54 General topology
55 Algebraic topology
57 Manifolds and cell complexes
58 Global analysis, analysis on manifolds
60 Probability theory and stochastic processes
62 Statistics
65 Numerical analysis
68 Computer science
70 Mechanics of particles and systems
73 Mechanics of solids
76 Fluid mechanics
78 Optics, electromagnetic theory
80 Classical thermodynamics, heat transfer
81 Quantum mechanics
82 Statistical physics, structure of matter
83 Relativity
85 Astronomy and astrophysics
86 Geophysics
90 Economics, operations research, programming, games
92 Biology and behavioral sciences
93 Systems theory; control
94 Information and communications, circuits

1980 Mathematics Subject Classification (1985)

1980 Mathematics Subject Classification

This is essentially a reprinting of the 1985 version of the 1980 Mathematics Subject Classification; it includes the changes announced in the MR Annual Indexes for 1985 and 1987 and used in MR since the January 1986 issue and the January 1988 issue, respectively.

A completely revised version of the Mathematics Subject Classification is in preparation and is expected to replace the present one, effective with the January 1991 issue. It will be published in the MR Annual Index for 1990.

Instructions for using the 1980 Mathematics Subject Classification

These instructions apply uniformly to all fields listed. The main purpose of the classification is to help readers to find the items of present or potential interest to them as readily as possible—in MR, in Zbl, or anywhere else where this classification system is used. The review of a paper or book should be printed in the section where it will receive the broadest attention from all readers possibly interested in it—these include both people working in that area and people who are familiar with that area and apply its results and methods elsewhere (inside or outside of mathematics). It will be extremely useful for both readers and classifiers to familiarize themselves with the entire classification system and thus to become aware of all the classifications of possible interest to them.

Every paper or book reviewed in MR receives precisely one "primary" classification number; it is simply the number of the section in which the review of the item will be printed. This section should be the one that covers the principal contribution. When a paper contains several principal contributions in different areas, the primary classification should cover the "most important" among them. A paper or book may receive one or several "secondary" classification numbers (or "cross-references"), to cover any remaining principal contributions, ancillary results, motivation or origin of the problems discussed, intended or potential field of application, or other significant aspects worthy of notice.

The "primary" principal contribution is meant to be the one including the most important part of the work actually done in the paper. For example, a paper whose main overall content is the solution of a problem in graph theory, which arose in computer science and whose solution is (perhaps) at present only of interest to computer scientists, belongs primarily in 05C with a cross-reference in 68; conversely, papers whose overall content lies mainly in computer science should receive a primary classification in 68, even if they make heavy use of graph theory and prove several new graph-theoretic results along the way.

For any paper or book with its primary classification in (i.e., its review printed in) an "applied" section (68 through 94), it is recommended that a cross-reference in some "pure" mathematics section(s) (00 through 65) be given whenever that is appropriate. Do not use 00A89 as a primary classification.

There are two types of cross-references given after many classifications in the list. The first type is of the form "{For A, see X}"; if this appears in section Y, it means that for contributions described by A one should usually assign the classification X, not Y. The other type of cross-reference merely points out related classifications; it is of the form "[See also ...]", "[See mainly ...]", etc., and the classifications listed in the brackets may, but need not, be added to the classification of a paper, or they may be used in place of the classification where the cross-reference is given. The classifier will have to judge which classification is the most appropriate for the paper at hand.

DISCONTINUED numbers from the 1980 Mathematics Subject Classification

Discontinued number	Date discontinued	Replacement
10–XX	1985 (1984 annual index)	now 11–XX
12A,B,C	1985 (1984 annual index)	now 11R,S,T
44A50	1980 (1979 annual index)	now 44A55 (see 44A60 for moment problems)
68A—K	1985 (1984 annual index)	now 68M—U
76A60	1984 (1983 annual index)	now 76–08
78A57	1982 (1981 annual index)	now 78A97
80A35	1985 (1984 annual index)	now 80A97
81E10	1985 (1984 annual index)	split into 81E08, 81E13
81H05	1982 (1981 annual index)	split into 81Hxx, 81H10, 81H20, 81H99
82A77	1985 (1984 annual index)	now 82A97
90C42	1980 (1979 annual index)	absorbed into 90C15
90C45, 90C47	1980 (1979 annual index)	absorbed into 90C40

Conversion tables have been prepared: (i) from 10–XX and 12A, B, C to 11–XX; (ii) from the old 68A—K to the new 68M—U. These tables are available from the editorial office of MR; they will also be included with reprints of the complete classification.

00–XX	**GENERAL**
00–01	Elementary exposition; textbooks
00–02	Advanced exposition (research surveys, monographs, etc.)
00A05	General mathematics
00A06	Mathematics for nonmathematicians (engineering, social sciences, etc.)
00A07	Problem books
00A08	Mathematical recreation
00A10	Collections of papers (miscellaneous content)
00A11	Proceedings of conferences of general interest
00A12	Translation volumes, reprintings, etc. [See also 01A75.]
00A15	General bibliographies
00A20	Dictionaries and other general reference works
00A22	Formularies
00A25	Methodology and philosophy of mathematics
00A69	General applied mathematics {For cross-reference to reviews printed in Sections 70 through 86, use 00A89.}
00A71	Theory of mathematical modeling
00A73	Dimensional analysis
00A89	Physics (to be used in cross-references to reviews printed in Sections 70 through 86, only when no other numbers from Sections 00 through 65 are suitable)
00A99	Miscellaneous topics
01–XX	**HISTORY AND BIOGRAPHY [See also the classification number –03 in the other sections.]**
01–00	Handbooks, dictionaries, and other reference works
01–01	Elementary exposition; textbooks
01–02	Advanced exposition (research surveys, monographs, etc.)
01–06	Proceedings, conferences, etc.
01A05	General histories, source books
01A10	Primitive, Paleolithic, Neolithic
01A12	Native American (i.e. Aztec, Inca, Maya, etc.)
01A15	Pre-Greek, Egyptian
01A17	Babylonian
01A20	Greek, Roman
01A25	China
01A27	Japan
01A29	Southeast Asia
01A30	Islam (Medieval)
01A32	India
01A35	Medieval
01A40	15th and 16th centuries, Renaissance
01A45	17th century
01A50	18th century
01A55	19th century
01A60	20th century
01A65	Contemporary
01A70	Biographies, obituaries, personalia
01A72	Schools of mathematics
01A73	Universities
01A74	Other institutions and academies
01A75	Collected or selected works; reprintings or translations of classics
01A80	Sociology (and profession) of mathematics
01A99	Miscellaneous topics
03–XX	**MATHEMATICAL LOGIC AND FOUNDATIONS**
03–00	Handbooks, dictionaries, and other reference works
03–01	Elementary exposition; textbooks
03–02	Advanced exposition (research surveys, monographs, etc.)
03–03	Historical (must also be assigned at least one classification number from Section 01)
03–04	Explicit machine computation and programs (not the theory of computation or programming)
03–06	Proceedings, conferences, etc.

03A05	**Philosophical and critical**
03Bxx	**General logic**
03B05	Classical propositional logic
03B10	Pure first-order logic (including many-sorted logic)
03B15	Higher-order logic and type-theory
03B20	Subsystems of classical logic (including intuitionistic logic)
03B25	Decidability of theories and sets of sentences
03B30	Foundations and axiomatics of classical theories
03B35	Mechanization of proofs and logical operations [See also 68T15.]
03B40	Combinatory logic and λ-calculus
03B45	Modal and tense logic, entailment, etc.
03B48	Probability and inductive logic
03B50	Many-valued logic
03B52	Fuzzy logic [See also 94D05.]
03B55	Intermediate logics
03B60	Other nonclassical logic
03B65	Logic of natural languages [See also 68Sxx.]
03B70	Logic of programming [See also 68N05, 68Q55, 68Q60, 68S10.]
03B99	None of the above, but in this section
03Cxx	**Model theory**
03C05	Equational classes, universal algebra [See also 08Axx.]
03C07	Basic properties of first-order languages and structures.
03C10	Quantifier elimination and related topics
03C13	Finite models
03C15	Denumerable models
03C20	Ultraproducts and related constructions
03C25	Model-theoretic forcing
03C30	Other model constructions
03C35	Categoricity and completeness of theories
03C40	Interpolation and preservation theorems; definability
03C45	Stability and related concepts
03C50	Models with special properties (saturated, rigid, etc.)
03C52	Properties of classes of models
03C55	Set-theoretic model theory
03C57	Recursion-theoretic model theory [See also 03D45.]
03C60	Model-theoretic algebra [See also 08C10.]
03C62	Models of arithmetic and set theory [See also 03Hxx.]
03C65	Models of other specific theories
03C68	Other classical first-order model theory
03C70	Logic on admissible sets
03C75	Other infinitary logic
03C80	Logic with extra quantifiers and operators [See also 03B45.]
03C85	Second- and higher-order model theory
03C90	Nonclassical models (Boolean-valued, sheaf, etc.)
03C95	Abstract model theory
03C99	None of the above, but in this section
03Dxx	**Recursion theory**
03D03	Thue and Post systems, etc.
03D05	Automata and formal grammars in connection with logical questions [See also 18B20, 68Qxx.]
03D10	Turing machines and related notions [See also 68Q05.]
03D15	Complexity of computation
03D20	Recursive functions and relations, subrecursive hierarchies
03D25	Recursively enumerable sets and degrees
03D30	Degrees and reducibilities
03D35	Undecidability and degrees of sets of sentences
03D40	Word problems, etc. [See also 06B25, 08A50, 20F10.]
03D45	Theory of numerations, effectively presented structures [See also 03C57.]
03D50	Recursive equivalence types of sets and structures, isols
03D55	Hierarchies
03D60	Recursion theory on ordinals, admissible sets, etc.
03D65	Higher-type and set recursion theory
03D70	Inductive definability
03D75	Abstract and axiomatic recursion theory
03D80	Applications
03D99	None of the above, but in this section
03Exx	**Set theory [See also 04–XX.]**
03E05	Combinatorial set theory
03E10	Ordinal and cardinal numbers
03E15	Descriptive set theory
03E20	Other classical set theory
03E25	Axiom of choice and related propositions
03E30	Axiomatics of classical set theory and its fragments
03E35	Consistency and independence results
03E40	Other aspects of forcing and Boolean-valued models
03E45	Constructibility, ordinal definability, and related notions
03E47	Other notions of set-theoretic definability
03E50	Continuum hypothesis and Martin's axiom [See also 54A25.]
03E55	Large cardinals
03E60	Determinacy and related principles which contradict the axiom of choice
03E65	Other hypotheses and axioms
03E70	Nonclassical and second-order set theories
03E72	Fuzzy sets [See also 54A40, 94D05.]
03E75	Applications
03E99	None of the above, but in this section
03Fxx	**Proof theory and constructive mathematics**
03F05	Cut-elimination and normal-form theorems
03F07	Structure of proofs
03F10	Functionals in proof theory
03F15	Recursive ordinals and ordinal notations
03F20	Complexity of proofs
03F25	Relative consistency and interpretations
03F30	First-order arithmetic and fragments
03F35	Second- and higher-order arithmetic and fragments [See also 03E30, 03E70.]
03F40	Gödel numberings in proof theory
03F50	Metamathematics of constructive systems
03F55	Intuitionistic mathematics
03F60	Recursive analysis
03F65	Other constructive mathematics [See also 46R05.]
03F99	None of the above, but in this section
03Gxx	**Algebraic logic**
03G05	Boolean algebras [See also 06Exx.]
03G10	Lattices and related structures [See also 06Bxx.]
03G12	Quantum logic [See also 81B10.]
03G15	Cylindric and polyadic algebras; relation algebras
03G20	Lukasiewicz and Post algebras
03G25	Other algebras related to logic
03G30	Categorical logic, topoi [See also 18B25.]
03G99	None of the above, but in this section
03Hxx	**Nonstandard models [See also 03C62.]**
03H05	Infinitesimal analysis in pure mathematics [See also 26E35, 28E05, 30G10, 46Q05, 54J05.]
03H10	Other applications of infinitesimal analysis
03H15	Nonstandard models of arithmetic [See also 11U10, 12L15, 13L05.]
03H20	Other nonstandard models [See also 54J05.]
03H99	None of the above, but in this section
04–XX	**SET THEORY**
04–00	Handbooks, dictionaries, and other reference works
04–01	Elementary exposition; textbooks
04–02	Advanced exposition (research surveys, monographs, etc.)
04–03	Historical (must also be assigned at least one classification number from Section 01)
04–04	Explicit machine computation and programs (not the theory of computation or programming)
04–06	Proceedings, conferences, etc.
04A05	Relations, functions [See also 08A02.]
04A10	Transfinite numbers
04A15	Descriptive set theory; Borel classifications, Suslin schemes, etc. [See also 03E15, 28A05, 54H05.]
04A20	Combinatorial [See also 05A05.]; filters
04A25	Axiom of choice and related propositions (Zorn's lemma, etc.) [See also 03E25.]
04A30	Continuum hypothesis, generalized continuum hypothesis [See also 03E50, 54A25.]
04A99	Miscellaneous topics
05–XX	**COMBINATORICS {For finite fields, see 11Txx.}**
05–00	Handbooks, dictionaries, and other reference works
05–01	Elementary exposition; textbooks
05–02	Advanced exposition (research surveys, monographs, etc.)
05–03	Historical (must also be assigned at least one classification number from Section 01)
05–04	Explicit machine computation and programs (not the theory of computation or programming)
05–06	Proceedings, conferences, etc.
05Axx	**Classical combinatorial problems**
05A05	Combinatorial choice problems (subsets, representatives, permutations)
05A10	Factorials, binomial coefficients, combinatorial functions [See also 11B65.]
05A15	Combinatorial enumeration problems, generating functions
05A17	Partitions [See also 11P57, 11P65.]
05A19	Combinatorial identities
05A20	Combinatorial inequalities
05A30	q-calculus and related topics [See also 33–XX.]
05A40	Umbral calculus
05A99	None of the above, but in this section
05Bxx	**Designs and configurations {For applications of design theory, see 94C30.}**
05B05	Block designs [See also 51E05, 62K10.]
05B07	Steiner triple systems

05B10	Difference sets (number-theoretic, group-theoretic, etc.) [See also 11B13.]
05B15	Orthogonal arrays, Latin squares, Room squares
05B20	Matrices (incidence, Hadamard, etc.)
05B25	Finite geometries [See also 51D20, 51Exx.]
05B30	Other designs, configurations [See also 51E30.]
05B35	Matroids, geometric lattices
05B40	Packing and covering [See also 11H31, 52A45.]
05B45	Tessellation and tiling problems
05B50	Polyominoes
05B99	None of the above, but in this section
05Cxx	**Graph theory {For applications of graphs, see 68Q90, 68R10, 94C15.}**
05C05	Trees
05C10	Topological graph theory, imbedding [See also 57M15, 57M25.]
05C15	Chromatic theory of graphs and maps
05C20	Directed graphs (digraphs), tournaments
05C25	Graphs and groups [See also 20F32.]
05C30	Enumeration of graphs and maps
05C35	Extremal problems
05C38	Paths and cycles
05C40	Connectivity
05C45	Eulerian and Hamiltonian graphs
05C50	Graphs and matrices
05C55	Generalized Ramsey theory
05C60	Reconstruction conjecture
05C65	Hypergraphs
05C70	Factorization, matching, covering and packing
05C75	Structural characterization of types of graphs
05C80	Random graphs
05C99	None of the above, but in this section
06–XX	**ORDER, LATTICES, ORDERED ALGEBRAIC STRUCTURES [See also 18B35.]**
06–00	Handbooks, dictionaries, and other reference works
06–01	Elementary exposition; textbooks
06–02	Advanced exposition (research surveys, monographs, etc.)
06–03	Historical (must also be assigned at least one classification number from Section 01)
06–04	Explicit machine computation and programs (not the theory of computation or programming)
06–06	Proceedings, conferences, etc.
06Axx	**Ordered sets**
06A05	Total order
06A10	Partial order
06A12	Semilattices [See also 20M10.]
06A15	Galois correspondences, closure operators
06A23	Complete lattices, completions
06A99	None of the above, but in this section
06Bxx	**Lattices [See also 03G10.]**
06B05	Structure theory
06B10	Ideals, congruence relations
06B15	Representation theory
06B20	Varieties of lattices
06B25	Free lattices, projective lattices, word problems [See also 03D40, 08A50, 20F10.]
06B30	Topological lattices, order topologies [See also 06F30, 54F05, 54H12.]
06B35	Continuous lattices, generalizations, applications [See also 06B30, 06D10, 06F30, 18B35, 22A26, 68N10.]
06B99	None of the above, but in this section
06Cxx	**Modular lattices, complemented lattices**
06C05	Modular lattices, Desarguesian lattices
06C10	Semimodular lattices, geometric lattices
06C15	Complemented lattices, orthocomplemented lattices
06C20	Complemented modular lattices, continuous geometries
06C99	None of the above, but in this section
06Dxx	**Distributive lattices**
06D05	Structure and representation theory
06D10	Complete distributivity
06D15	Pseudocomplemented lattices
06D20	Heyting algebras [See also 03Gxx.]
06D25	Post algebras [See also 03G20.]
06D30	De Morgan algebras, Lukasiewicz algebras [See also 03G20.]
06D99	None of the above, but in this section
06Exx	**Boolean algebras [See also 03G05.]**
06E05	Structure theory
06E10	Chain conditions, complete algebras
06E15	Topological representation
06E20	Boolean rings [See also 16A30, 16A32.]
06E30	Boolean functions
06E99	None of the above, but in this section
06Fxx	**Ordered structures [See also 22A26, 54F05.]**
06F05	Ordered semigroups [See also 20Mxx.]
06F10	Noether lattices
06F15	Ordered groups [See also 20F60.]
06F20	Ordered abelian groups, ordered linear spaces [See also 46A40.]
06F25	Ordered rings, algebras, modules {For ordered fields, see 12J15; see also 13J25, 16A86.}
06F30	Topological lattices, order topologies [See also 06B30, 54F05, 54H12.]
06F99	None of the above, but in this section
08–XX	**GENERAL MATHEMATICAL SYSTEMS**
08–00	Handbooks, dictionaries, and other reference works
08–01	Elementary exposition; textbooks
08–02	Advanced exposition (research surveys, monographs, etc.)
08–03	Historical (must also be assigned at least one classification number from Section 01)
08–04	Explicit machine computation and programs (not the theory of computation or programming)
08–06	Proceedings, conferences, etc.
08Axx	**Universal algebra [See also 03C05.]**
08A02	Relational systems, laws of composition
08A05	Structure theory
08A30	Subalgebras, congruence relations
08A35	Automorphisms, endomorphisms
08A40	Operations, polynomials, primal algebras
08A45	Equational compactness
08A50	Word problems [See also 03D40, 20F10.]
08A55	Partial algebras
08A60	Unary algebras
08A65	Infinitary algebras
08A99	None of the above, but in this section
08Bxx	**Varieties**
08B05	Equational logic, Mal′cev (Mal′tsev) conditions
08B10	Congruence modularity, congruence distributivity
08B15	Lattices of varieties
08B20	Free algebras
08B25	Products, amalgamated products
08B30	Injectives, projectives
08B99	None of the above, but in this section
08Cxx	**Classes of algebras**
08C05	Categories of algebras [See also 18C05.]
08C10	Axiomatic model classes [See also 03Cxx, in particular 03C60.]
08C15	Quasivarieties
08C99	None of the above, but in this section
11–XX	**NUMBER THEORY**
11–00	Handbooks, dictionaries, and other reference works
11–01	Elementary exposition; textbooks
11–02	Advanced exposition (research surveys, monographs, etc.)
11–03	Historical (must also be assigned at least one classification number from Section 01)
11–04	Explicit machine computation and programs (not the theory of computation or programming)
11–06	Proceedings, conferences, etc.
11Axx	**Elementary number theory {For analogues in number fields, see 11R04.}**
11A05	Multiplicative structure; Euclidean algorithm; greatest common divisors
11A07	Congruences; primitive roots; residue systems
11A15	Power residues, reciprocity
11A25	Arithmetic functions; related numbers; inversion formulas
11A41	Primes
11A51	Factorization; primality
11A55	Continued fractions {For approximation results, see 11J70; see also 11K50, 30B70, 40A15.}
11A63	Radix representation; digital problems {For metric results, see 11K16.}
11A67	Other representations
11A99	None of the above, but in this section
11Bxx	**Sequences and sets**
11B05	Density, gaps, topology
11B13	Additive bases [See also 05B10.]
11B25	Arithmetic progressions [See also 11N13.]
11B34	Representation functions
11B37	Recurrences
11B39	Fibonacci and Lucas numbers and polynomials
11B50	Sequences (mod m)
11B57	Farey sequences; the sequences $\{1^k, 2^k, \cdots\}$
11B65	Binomial coefficients; factorials; q-identities
11B68	Bernoulli and Euler numbers and polynomials
11B73	Bell and Stirling numbers
11B75	Other combinatorial number theory
11B83	Other special sequences and polynomials
11B99	None of the above, but in this section

11Cxx	**Polynomials and matrices**
11C08	Polynomials [See also 13F20.]
11C20	Matrices, determinants [See also 15A36.]
11C99	None of the above, but in this section
11Dxx	**Diophantine equations [See also 14Gxx.]**
11D04	Linear equations
11D09	Quadratic and bilinear equations
11D25	Cubic and quartic equations
11D41	Higher degree equations; Fermat's equation
11D57	Multiplicative and norm form equations
11D61	Exponential equations
11D68	Rational numbers as sums of fractions
11D72	Equations in many variables [See also 11P55.]
11D75	Diophantine inequalities [See also 11J25.]
11D79	Congruences in many variables
11D85	Representation problems [See also 11P55.]
11D88	p-adic and power series fields
11D99	None of the above, but in this section
11Exx	**Forms and linear algebraic groups [See also 19Gxx.] {For quadratic forms in linear algebra, see 15A63.}**
11E04	Quadratic forms over general fields
11E08	Quadratic forms over local rings and fields
11E10	Forms over real fields
11E12	Quadratic forms over global rings and fields
11E16	General binary quadratic forms
11E20	General ternary and quaternary quadratic forms
11E25	Sums of squares; other particular quadratic forms
11E32	Reduction theory of quadratic forms [See mainly 11H55.]
11E36	Distribution of lattice points on quadrics [See mainly 11P21.]
11E39	Bilinear and Hermitian forms
11E41	Class numbers of quadratic and Hermitian forms
11E45	Analytic theory (Epstein zeta functions; relations with automorphic forms and functions)
11E57	Classical groups [See also 14Lxx, 20Gxx.]
11E70	K-theory of quadratic and Hermitian forms
11E72	Galois cohomology of linear algebraic groups [See also 20G10.]
11E76	Forms of degree higher than two
11E81	Algebraic theory of quadratic forms; Witt groups and rings [See also 19G12, 19G24.]
11E88	Quadratic spaces; Clifford algebras [See also 15A63, 15A66.]
11E92	Integer matrices [See also 15A36.]
11E95	p-adic theory
11E99	None of the above, but in this section
11Fxx	**Discontinuous groups and automorphic forms [See also 11R39, 11S37, 14Gxx, 14Kxx, 22E50, 22E55, 30F35, 32Nxx; for relations with quadratic forms, see 11E45.]**
11F03	Modular and automorphic functions
11F06	Structure of modular groups and generalizations; arithmetic groups [See also 20H05, 20H10, 22E40.]
11F11	Modular forms, one variable
11F12	Automorphic forms, one variable
11F20	Dedekind eta function, Dedekind sums
11F22	Relationship to Lie algebras and finite simple groups
11F25	Hecke-Petersson operators, differential operators (1 variable)
11F27	Theta series; Weil representation
11F30	Fourier coefficients of automorphic forms
11F33	Congruences for modular and p-adic modular forms [See also 14G20, 22E50.]
11F35	Ramanujan τ-function
11F37	Forms of half-integer weight; nonholomorphic modular forms
11F41	Hilbert and Hilbert-Siegel modular groups and their modular and automorphic forms; Hilbert modular surfaces [See also 14J20.]
11F46	Siegel modular groups and their modular and automorphic forms
11F55	Other groups and their modular and automorphic forms (several variables)
11F66	Dirichlet series and functional equations in connection with modular forms
11F67	Special values of automorphic L-series, periods of modular forms, cohomology, modular symbols
11F70	Representation-theoretic methods; automorphic representations over local and global fields
11F72	Spectral theory; Selberg trace formula
11F75	Cohomology of arithmetic groups
11F80	Galois properties
11F85	p-adic theory, local fields [See also 14G20, 22E50.]
11F99	None of the above, but in this section
11Gxx	**Arithmetic algebraic geometry (Diophantine geometry) [See also 11Dxx, 14Gxx, 14Kxx.]**
11G05	Elliptic curves over global fields
11G07	Elliptic curves over local fields
11G10	Abelian varieties of dimension >1
11G15	Complex multiplication and moduli of abelian varieties [See also 14K22.]
11G16	Elliptic and modular units
11G18	Arithmetic of modular and Shimura varieties
11G20	Curves over finite and local fields
11G25	Varieties over finite and local fields
11G30	Curves of arbitrary genus or genus $\neq 1$ over global fields
11G35	Varieties over global fields
11G40	L-functions of varieties over global fields; Birch-Swinnerton-Dyer conjecture
11G45	Geometric class field theory [See also 11R37.]
11G99	None of the above, but in this section
11Hxx	**Geometry of numbers**
11H06	Lattices and convex bodies [See also 11P21.]
11H16	Nonconvex bodies
11H25	Minkowski-Hlawka theorem; Siegel mean value theorem
11H31	Lattice packing and covering [See also 05B40, 52A45.]
11H41	Miscellaneous problems
11H46	Products of linear forms
11H50	Minima of forms
11H55	Quadratic forms (reduction theory, extreme forms, etc.)
11H60	Mean value and transfer theorems
11H99	None of the above, but in this section
11Jxx	**Diophantine approximation, transcendental number theory [See also 11K60.]**
11J04	Homogeneous approximation to one number
11J06	Markov and Lagrange spectra and generalizations
11J13	Simultaneous homogeneous approximation, linear forms
11J17	Approximation by numbers from a fixed field
11J20	Inhomogeneous linear forms
11J25	Diophantine inequalities [See also 11D75.]
11J37	Products of n linear forms in n variables $(n \geq 2)$ [See mainly 11H46.]
11J45	Minima of quadratic forms in more than two variables [See mainly 11H50.]
11J52	Minima of higher degree forms and other functions [See mainly 11H50.]
11J54	Small fractional parts of polynomials and generalizations
11J61	Approximation in non-Archimedean valuations
11J68	Rational approximation to algebraic numbers
11J69	Simultaneous rational approximation to algebraic numbers
11J70	Continued fractions and generalizations [See also 11A55, 11K50.]
11J71	Distribution modulo one [See also 11K06.]
11J72	Irrationality; linear independence over a field
11J81	Transcendence (general theory)
11J82	Measures of irrationality and of transcendence
11J83	Metric theory
11J85	Algebraic independence; Gel'fond's method
11J86	Linear forms in logarithms; Baker's method
11J87	Applications to Diophantine equations and other arithmetic problems
11J89	Transcendence theory of elliptic and abelian functions and algebraic groups
11J91	Transcendence theory of other special functions
11J99	None of the above, but in this section
11Kxx	**Probabilistic theory: distribution modulo 1; metric theory of algorithms**
11K06	General theory of distribution modulo 1 [See also 11J71.]
11K16	Normal numbers, radix expansions, etc. [See also 11A63.]
11K26	PV-numbers
11K31	Other special sequences
11K36	Well-distributed sequences and other variations
11K38	Irregularities of distribution, discrepancy [See also 11Nxx.]
11K41	Continuous, p-adic and abstract analogues
11K45	Pseudo-random numbers; Monte Carlo methods
11K50	Metric theory of continued fractions [See also 11A55, 11J70.]
11K55	Metric theory of other algorithms and expansions; measure and Hausdorff dimension [See also 11N99.]
11K60	Diophantine approximation [See also 11Jxx.]
11K65	Arithmetic functions [See also 11Nxx.]
11K99	None of the above, but in this section
11Lxx	**Exponential sums and character sums**
11L03	Trigonometric and exponential sums, general
11L05	Gauss and Kloosterman sums; generalizations
11L10	Jacobsthal and Brewer sums; other complete character sums
11L15	Weyl sums
11L20	Sums over primes
11L26	Sums over arbitrary intervals
11L40	Estimates on exponential sums and character sums
11L50	Real trigonometric inequalities
11L99	None of the above, but in this section
11Mxx	**Zeta and L-functions: analytic theory**
11M06	$\zeta(s)$ and $L(s,\chi)$
11M20	Real zeros of $L(s,\chi)$; results on $L(1,\chi)$
11M26	Nonreal zeros of $\zeta(s)$ and $L(s,\chi)$; Riemann and other hypotheses
11M35	Hurwitz and Lerch zeta functions

11M41	Other Dirichlet series and zeta functions {For local and global ground fields, see 11R42, 11R52, 11S40, 11S45; for algebro-geometric methods, see 14G10; see also 11E45, 11F70, 11F72.}
11M45	Tauberian theorems
11M51	Turán theory [See mainly 11N30.]
11M56	Sieves [See mainly 11N35.]
11M99	None of the above, but in this section
11Nxx	**Multiplicative number theory**
11N05	Distribution of primes
11N13	Primes in progressions [See also 11B25.]
11N25	Distribution of integers with specified multiplicative constraints
11N30	Turán theory
11N32	Primes represented by polynomials; other multiplicative structure of polynomial values
11N35	Sieves
11N37	Asymptotic results on arithmetic functions
11N45	Asymptotic results on counting functions for algebraic and topological structures
11N56	Rate of growth of arithmetic functions
11N60	Distribution functions associated with additive and positive multiplicative functions
11N64	Other results on the distribution of values or the characterization of arithmetic functions
11N69	Distribution of integers in special residue classes
11N80	Generalized primes and integers
11N99	None of the above, but in this section
11Pxx	**Additive number theory; partitions**
11P05	Waring's problem and variants, sums of different powers
11P16	Additive questions concerning r-free numbers
11P21	Lattice points in specified regions
11P32	Goldbach-type theorems
11P45	Other additive questions involving primes
11P55	Applications of the Hardy-Littlewood method [See also 11D85.]
11P57	Partitions: recurrence relations, generating functions, etc.
11P65	Partitions: multipartite, and related problems
11P68	Partitions: restricted by congruence, inequality or repetition conditions
11P72	Partitions: asymptotic, convergent series expansions
11P76	Partitions: congruences for partition functions
11P80	Partitions: miscellaneous results
11P99	None of the above, but in this section
11Qxx	**Other arithmetic-analytic topics**
11Q05	Analytic functions
11Q10	Differential equations
11Q15	Probability theory and ergodic theory
11Q20	Fourier analysis, approximation theory; functional analysis
11Q25	Non-Archimedean analysis
11Q99	None of the above, but in this section
11Rxx	**Algebraic number theory: global fields {For complex multiplication, see 11G15.}**
11R04	Algebraic numbers: general
11R06	PV-numbers and generalizations; other special algebraic numbers
11R09	Polynomials (irreducibility, etc.)
11R11	Quadratic extensions
11R16	Cubic and quartic extensions
11R18	Cyclotomic extensions
11R20	Other abelian and metabelian extensions
11R21	Other number fields
11R23	Infinite algebraic extensions; Iwasawa theory
11R27	Units and factorization
11R29	Class numbers, class groups, discriminants
11R32	Galois theory
11R33	Integral representations related to algebraic numbers; Galois module structure of rings of integers [See also 20C10.]
11R34	Galois cohomology [See also 12Gxx, 16A16, 19A31.]
11R37	Class field theory
11R39	Langlands-Weil conjectures, nonabelian class field theory [See also 11Fxx, 22E55.]
11R42	Zeta functions and L-functions of number fields [See also 11M41, 19F27.]
11R44	Distribution of prime ideals [See also 11N05.]
11R45	Density theorems
11R47	Other analytic theory
11R52	Quaternion and other division algebras: arithmetic, zeta functions
11R54	Other algebras and orders, and their zeta and L-functions [See also 11S45, 16A18, 16A39.]
11R56	Adèle rings and groups
11R58	Arithmetic theory of algebraic function fields [See also 14–XX.]
11R65	Class groups and Picard groups of orders
11R70	K-theory of global fields [See also 19Fxx.]
11R80	Totally real and totally positive fields [See also 12J15.]
11R99	None of the above, but in this section
11Sxx	**Algebraic number theory: local and p-adic fields**
11S05	Polynomials
11S10	Units
11S15	Ramification and extension theory
11S20	Galois theory
11S23	Integral representations
11S25	Galois cohomology [See also 12Gxx, 16A16.]
11S31	Class field theory; p-adic formal groups
11S37	Langlands-Weil conjectures, nonabelian class field theory [See also 11Fxx, 22E50.]
11S40	Zeta functions and L-functions [See also 11M41, 19F27.]
11S45	Algebras and orders, and their zeta functions [See also 11R52, 11R54, 16A18, 16A39.]
11S50	Equations
11S70	K-theory of local fields
11S75	Valuation theory
11S80	Other analytic theory (analogues of beta and gamma functions, p-adic integration, etc.)
11S85	Other nonanalytic theory
11S99	None of the above, but in this section
11Txx	**Finite fields and commutative rings (number-theoretic aspects)**
11T06	Polynomials: irreducibility, factorization, distribution of values
11T15	Difference sets; finite geometries
11T21	Cyclotomy, exponential sums; Gaussian and character sums
11T30	Structure theory
11T35	Matrices and determinants
11T41	Equations
11T55	Polynomial domains over finite fields
11T71	Algebraic coding theory; cryptography
11T99	None of the above, but in this section
11Uxx	**Connections with logic**
11U05	Decidability [See also 03B25.]
11U07	Ultraproducts [See also 03C20.]
11U09	Model theory
11U10	Nonstandard arithmetic [See also 03H15.]
11U99	None of the above, but in this section
11Yxx	**Computational number theory [See also 11–04.]**
11Y05	Factorization
11Y11	Primality
11Y16	Algorithms; complexity
11Y35	Analytic computations
11Y40	Algebraic number theory computations
11Y50	Computer solution of Diophantine equations
11Y55	Calculation of integer sequences
11Y60	Evaluation of constants
11Y65	Continued fraction calculations
11Y70	Values of arithmetic functions; tables
11Y99	None of the above, but in this section
11Z50	**Miscellaneous applications of number theory**
12–XX	FIELD THEORY AND POLYNOMIALS
12–00	Handbooks, dictionaries, and other reference works
12–01	Elementary exposition; textbooks
12–02	Advanced exposition (research surveys, monographs, etc.)
12–03	Historical (must also be assigned at least one classification number from Section 01)
12–04	Explicit machine computation and programs (not the theory of computation or programming)
12–06	Proceedings, conferences, etc.
12Dxx	**Real and complex fields**
12D05	Polynomials: factorization
12D10	Polynomials: location of zeros (algebraic theorems) {For the analytic theory, see 26C10, 30C15.}
12D15	Formally real fields [See also 12J10, 12J15.]
12D99	None of the above, but in this section
12Exx	**General field theory**
12E05	Polynomials (irreducibility, etc.)
12E10	Special polynomials
12E12	Equations
12E15	Skew fields, division rings [See also 11R52, 11R54, 11S45 16A39.]
12E20	Finite fields {For number-theoretic questions, see 11Txx.}
12E99	None of the above, but in this section
12Fxx	**Field extensions**
12F05	Algebraic extensions
12F10	Separable extensions, Galois theory
12F15	Inseparable extensions, derivations
12F20	Transcendental extensions
12F99	None of the above, but in this section
12Gxx	**Homological methods**
12G05	Galois cohomology [See also 11R34, 11S25, 13A20, 16A16.]
12G10	Cohomological dimension
12G99	None of the above, but in this section

12Hxx	**Differential and difference algebra**
12H05	Differential algebra [See also 13N05.]
12H10	Difference algebra [See also 39Axx.]
12H20	Abstract differential equations [See also 34Gxx.]
12H25	*p*-adic differential equations [See also 11S80, 14G20, 34Gxx.]
12H99	None of the above, but in this section
12Jxx	**Topological fields**
12J05	Normed fields
12J10	Valued fields
12J15	Ordered fields
12J17	Topological semifields
12J20	General valuation theory
12J25	Non-Archimedean valued fields [See also 26E30, 30G05, 32D25, 46P05.]
12J27	Krasner-Tate algebras [See mainly 32E27, also 46P05.]
12J99	None of the above, but in this section
12Kxx	**Generalizations**
12K05	Near-fields [See also 16A76.]
12K10	Semifields [See also 16A78.]
12K99	None of the above, but in this section
12Lxx	**Connections with logic**
12L05	Decidability
12L10	Ultraproducts
12L12	Model theory
12L15	Nonstandard arithmetic [See also 03H15.]
12L99	None of the above, but in this section
13–XX	**COMMUTATIVE RINGS AND ALGEBRAS** {**For the noncommutative case, see 16–XX.**}
13–00	Handbooks, dictionaries, and other reference works
13–01	Elementary exposition; textbooks
13–02	Advanced exposition (research surveys, monographs, etc.)
13–03	Historical (must also be assigned at least one classification number from Section 01)
13–04	Explicit machine computation and programs (not the theory of computation or programming)
13–06	Proceedings, conferences, etc.
13Axx	**General commutative ring theory**
13A05	Divisibility
13A10	Radical theory
13A15	Ideals
13A17	Prime and primary ideals and their generalizations
13A18	Valuations and their generalizations
13A20	Brauer groups [See also 12Gxx, 16A16.]
13A99	None of the above, but in this section
13Bxx	**Ring extensions and related topics**
13B02	Extension theory
13B05	Galois theory
13B10	Automorphisms and derivations
13B15	Ramification theory
13B20	Integral dependence; integral closure; integrally closed rings, related rings (Japanese, etc.)
13B25	Polynomials over commutative rings
13B30	Quotients and localization
13B35	Completions
13B99	None of the above, but in this section
13Cxx	**Theory of modules and ideals**
13C05	Structure, classification theorems
13C10	Projective and free modules and ideals [See also 18G05.]
13C11	Injective and flat modules and ideals [See also 18G05.]
13C12	Torsion modules and ideals
13C13	Other special types
13C15	Dimension theory, depth, related rings (catenary, etc.)
13C99	None of the above, but in this section
13Dxx	**Homological methods**
13D03	Cohomology of commutative rings and algebras
13D05	Homological dimension
13D10	Deformations and infinitesimal methods [See also 14D15, 16A58, 32Gxx.]
13D15	Grothendieck group, *K*-theory [See also 14F15, 18F25, 18F30, 19Axx.]
13D25	Complexes [See also 14Mxx.]
13D30	Torsion theory [See also 13C12, 16A63, 18E40.]
13D99	None of the above, but in this section
13Exx	**Chain conditions, finiteness conditions**
13E05	Noetherian rings and modules
13E10	Artinian rings and modules, finite-dimensional algebras
13E15	Rings and modules of finite generation or representation
13E99	None of the above, but in this section
13Fxx	**Arithmetic rings [See also 12–XX.]**
13F05	Dedekind and Prüfer rings and their generalizations
13F07	Euclidean rings and generalizations
13F10	Principal ideal rings
13F15	Factorial rings, unique factorization domains
13F20	Polynomial rings [See also 11C08.]
13F25	Formal power series rings
13F30	Discrete valuation rings
13F99	None of the above, but in this section
13G05	**Integral domains**
13Hxx	**Local rings and semilocal rings**
13H05	Regular local rings
13H10	Special types (Macaulay, Gorenstein, etc.)
13H15	Multiplicity theory and related topics
13H99	None of the above, but in this section
13Jxx	**Topological rings [See also 16A80.]**
13J05	Power series rings
13J10	Complete rings
13J15	Henselian rings
13J20	Global topological rings
13J25	Ordered rings [See also 06F25, 16A86.]
13J99	None of the above, but in this section
13K05	**Witt vectors and related rings**
13L05	**Applications of logic to commutative algebra [See also 03Cxx, 03Hxx.]**
13Mxx	**Finite commutative rings** {**For number-theoretic aspects, see 11Txx.**}
13M05	Structure
13M10	Polynomials
13M99	None of the above, but in this section
13N05	**Differential algebra [See also 12H05.]**
14–XX	**ALGEBRAIC GEOMETRY**
14–00	Handbooks, dictionaries, and other reference works
14–01	Elementary exposition; textbooks
14–02	Advanced exposition (research surveys, monographs, etc.)
14–03	Historical (must also be assigned at least one classification number from Section 01)
14–04	Explicit machine computation and programs (not the theory of computation or programming)
14–06	Proceedings, conferences, etc.
14Axx	**Foundations**
14A05	Relevant commutative algebra [See also 13–XX.]
14A10	Varieties
14A15	Schemes
14A20	Generalizations (algebraic spaces, motifs)
14A25	Elementary questions
14A99	None of the above, but in this section
14Bxx	**Local theory [See also 32Bxx.]**
14B05	Singularities [See also 14E15, 32B30, 32C40, 58C27.]
14B07	Deformations of singularities [See also 14D15, 32C40, 32G05, 32G11, 32G13.]
14B10	Infinitesimal methods
14B12	Local deformation theory, Artin approximation, etc.
14B15	Local cohomology [See also 32C36.]
14B20	Formal neighborhoods
14B25	Local structure of maps: étale, flat, etc. [See also 13–XX, 14E40.]
14B99	None of the above, but in this section
14Cxx	**Cycles and subschemes**
14C05	Parametrization (Chow and Hilbert schemes)
14C10	Equivalence relations
14C15	Rational equivalence rings
14C17	Intersection theory
14C20	Divisors, linear systems
14C21	Webs, nets [See also 53A60.]
14C22	Picard groups
14C25	Zero-cycles
14C30	Transcendental methods, Hodge theory [See also 32J25.]
14C35	Applications of methods of algebraic *K*-theory [See also 14F05, 18F25, 19E15.]
14C40	Riemann-Roch theorems [See also 14F12, 19E20, 19L10.]
14C99	None of the above, but in this section
14Dxx	**Families, fibrations**
14D05	Structure of families (Picard-Lefschetz, Picard-Fuchs theory, etc.)
14D10	Arithmetic ground fields (finite, local, global)
14D15	Formal methods; deformations [See also 13D10, 14B07, 16A58, 32Gxx.]
14D20	Algebraic moduli problems {For analytic moduli problems, see 32G13.}
14D22	Fine structure of moduli spaces
14D25	Geometric invariants [See also 14L30.]
14D99	None of the above, but in this section
14Exx	**Mappings and correspondences**
14E05	Rational maps, birational correspondences
14E07	Structure of Cremona group and generalizations
14E10	General correspondences
14E15	Global theory of singularities, resolution [See also 14B05, 32C45.]
14E20	Coverings, fundamental group

14E22	Ramification problems [See also 11S15.]
14E25	Imbeddings
14E30	Minimal models
14E35	Results in dimension ≤ 3
14E40	Local structure of maps: étale, flat, etc. [See also 13–XX, 14B25.]
14E99	None of the above, but in this section
14Fxx	**Cohomology theory [See also 13Dxx.]**
14F05	Vector bundles, sheaves, related constructions [See also 18F20, 46M20.]
14F07	Weierstrass points in one and several variables; gap sheaves
14F10	Differentials and other special sheaves
14F12	Riemann-Roch problems [See mainly 14C40, also 32L10, 57R20.]
14F15	Serre cohomology, *K*-theory [See also 13D15, 18F25, 19E20.]
14F20	Grothendieck cohomology and topology [See also 18F10.]
14F25	Classical real and complex cohomology
14F30	*p*-adic cohomology, crystalline cohomology
14F35	Homotopy theory
14F40	de Rham cohomology [See also 14C30, 32C35, 32L10.]
14F45	Topological properties
14F99	None of the above, but in this section
14Gxx	**Special ground fields, arithmetic problems** {**For complex multiplication, see 11G15, 14K22. For automorphic and modular functions and forms, see also 11Fxx, 14K15.**}
14G05	Rationality questions
14G10	Zeta functions and related questions [See also 11R42, 11S40, 19F27.]
14G13	Weil-Tate conjectures [See also 14Cxx.]
14G15	Finite ground fields
14G20	*p*-adic ground fields (local fields)
14G25	Global ground fields
14G30	Real ground fields [See also 32C05. Must also be assigned at least one other number referring to the specific type of problem considered.]
14G99	None of the above, but in this section
14Hxx	**Curves**
14H05	Algebraic functions [See also 14K20, 32G20.]
14H10	Families, moduli (algebraic)
14H15	Families, moduli (analytic) [See also 30F10, 32G15, 32G20.]
14H20	Singularities, local rings [See also 13Hxx.]
14H25	Arithmetic ground fields [See also 11Dxx, 14Gxx.]
14H30	Coverings, fundamental group
14H35	Correspondences [See also 14Exx.]
14H40	Jacobians [See also 32G20.]
14H45	Special curves
14H50	Space curves (use only for secondary classification) [See also 14H45.]
14H99	None of the above, but in this section
14Jxx	**Surfaces and higher-dimensional varieties**
14J05	Picard group
14J10	Families, moduli, classification: algebraic theory
14J15	Moduli, classification: analytic theory [See also 32J15.]
14J17	Singularities of surfaces
14J20	Arithmetic ground fields [See also 11Dxx, 14Gxx.]
14J25	Special surfaces, general
14J26	Rational and ruled surfaces
14J27	Elliptic surfaces
14J28	*K*3-surfaces and Enriques surfaces
14J29	Surfaces of general type
14J30	Special 3-folds [See also 14E05.]
14J35	Special 4-folds [See also 14E05.]
14J40	Special *n*-folds
14J50	Automorphisms of surfaces and higher-dimensional special varieties
14J99	None of the above, but in this section
14Kxx	**Abelian varieties and schemes**
14K05	Algebraic theory
14K07	Elliptic curves, one-dimensional theory
14K10	Algebraic moduli, classification
14K15	Arithmetic ground fields [See also 11Dxx, 11Fxx, 14Gxx.]
14K20	Analytic theory; abelian integrals and differentials
14K22	Complex multiplication [See also 11G15.]
14K25	Theta functions
14K30	Picard schemes, higher Jacobians
14K99	None of the above, but in this section
14Lxx	**Group schemes** {**For linear algebraic groups, see 20Gxx. For Lie algebras, see 17B45.**}
14L05	Formal groups, *p*-divisible groups [See also 17B50.]
14L10	Group varieties
14L15	Group schemes
14L17	Affine algebraic groups, hyperalgebra constructions [See also 17B45, 18D35.]
14L20	Finite group schemes
14L25	Pro-algebraic group schemes
14L30	Group actions on varieties or schemes [See also 14D25.]
14L32	Toric varieties, Newton polyhedra
14L35	Classical groups (geometric aspects)
14L40	Other algebraic groups (geometric aspects)
14L99	None of the above, but in this section
14Mxx	**Special varieties**
14M05	Varieties defined by ring conditions (factorial, Macaulay)
14M07	Low-codimension problems [See also 14Cxx.]
14M10	Complete intersections
14M12	Determinantal varieties
14M15	Grassmannians, Schubert varieties [See also 51M35.]
14M17	Homogeneous spaces [See also 32M10, 53C30, 57T15.]
14M20	Rational varieties
14M99	None of the above, but in this section
14Nxx	**Classical methods and problems [See also 51–XX.]**
14N05	Projective techniques
14N10	Enumerative problems
14N99	None of the above, but in this section
15–XX	**LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY (finite and infinite)**
15–00	Handbooks, dictionaries, and other reference works
15–01	Elementary exposition; textbooks
15–02	Advanced exposition (research surveys, monographs, etc.)
15–03	Historical (must also be assigned at least one classification number from Section 01)
15–04	Explicit machine computation and programs (not the theory of computation or programming)
15–06	Proceedings, conferences, etc.
15A03	Vector spaces, linear dependence, rank
15A04	Linear transformations, semilinear transformations
15A06	Linear equations
15A09	Matrix inversion, generalized inverses
15A12	Conditioning of matrices [See also 65F35.]
15A15	Determinants, permanents, other special matrix functions [See also 19B10, 19B14.]
15A18	Eigenvalues, singular values, and eigenvectors
15A21	Canonical forms, reductions, classification
15A22	Matrix pencils
15A23	Factorization of matrices
15A24	Matrix equations and identities
15A27	Commutativity
15A30	Algebraic systems of matrices [See also 16A42, 20Gxx, 20Hxx.]
15A33	Matrices over special rings (quaternions, finite fields, etc.)
15A36	Matrices of integers [See also 11C20.]
15A39	Linear inequalities
15A42	Inequalities involving eigenvalues and eigenvectors
15A45	Miscellaneous inequalities involving matrices
15A48	Positive matrices and their generalizations; cones of matrices
15A51	Stochastic matrices
15A52	Random matrices
15A54	Matrices over function rings in one or more variables
15A57	Other types of matrices (Hermitian, skew-Hermitian, etc.)
15A60	Norms of matrices, numerical range, applications of functional analysis to matrix theory [See also 65F35, 65J05.]
15A63	Quadratic and bilinear forms, inner products [See mainly 11Exx.]
15A66	Clifford algebras, spinors
15A69	Multilinear algebra, tensor products
15A72	Vector and tensor algebra, theory of invariants
15A75	Exterior algebra, Grassmann algebras
15A78	Other algebras built from modules
15A90	Applications to physics
15A99	Miscellaneous topics
16–XX	**ASSOCIATIVE RINGS AND ALGEBRAS** {**For the commutative case, see 13–XX.**}
16–00	Handbooks, dictionaries, and other reference works
16–01	Elementary exposition; textbooks
16–02	Advanced exposition (research surveys, monographs, etc.)
16–03	Historical (must also be assigned at least one classification number from Section 01)
16–04	Explicit machine computation and programs (not the theory of computation or programming)
16–06	Proceedings, conferences, etc.
16A02	Integral domains, unique factorization domains (noncommutative)
16A03	Graded algebras, rings and modules
16A04	Noncommutative principal ideal rings, rings with a division algorithm
16A05	Skew polynomial rings, power series rings
16A06	Free algebras, free ideal rings (firs) and their generalizations [See also tensor algebra in 15A72.]
16A08	Rings of quotients, noncommutative localization
16A10	Noncommutative local rings
16A12	Prime and semiprime rings
16A14	Noncommutative analogues of Dedekind and Prüfer domains
16A15	Other generalizations of commutative rings {For commutativity theorems, see 16A70.}

16A16 Separable algebras, Azumaya algebras and their generalizations [See also 12Gxx, 13A20.]
16A18 Orders, arithmetic in algebras [See also 11R52, 11R54, 11S45.]
16A19 Simple non-Artinian rings
16A20 Primitive and semiprimitive rings
16A21 Radical theory
16A22 Nil, nilpotent and radical rings
16A24 Hopf algebras, algebraic theory [See also 57T05.]
16A25 Structure of groups of units of rings
16A26 Group rings of finite groups [See also 20C05; for semigroup rings, see 20M25.]
16A27 Group rings of infinite groups [See also 20C07; for semigroup rings, see 20M25.]
16A28 Rings with involution [See also 46Kxx.]
16A30 von Neumann regular rings and their generalizations [See also 06Cxx, 06Exx.]
16A32 Idempotents in rings [See also 06Exx.]
16A33 Noetherian rings
16A34 Rings with annihilator conditions, chain conditions (Goldie rings)
16A35 Artinian rings
16A36 Frobenius algebras, quasi-Frobenius rings and their generalizations
16A38 Rings with polynomial identity
16A39 Skew fields [See also 12E15.], division rings
16A40 Simple and semisimple Artinian rings
16A42 Rings of linear transformations, matrix rings, infinite matrix rings [See also 15A30.]
16A44 Finite rings [See also 11Txx, 13Mxx.]
16A45 Other types of rings and algebras
16A46 Finite-dimensional algebras
16A48 Structure, classification
16A49 Duality theory
16A50 Projective and flat modules and generalizations
16A51 Perfect, semiperfect rings and modules and their generalizations
16A52 Injective modules, self-injective rings and generalizations
16A53 Special types of modules
16A54 Grothendieck groups of rings, K-theory of noncommutative rings [See also 18F25, 18F30, 19–XX.]
16A55 Dimension theory (Krull, Gabriel)
16A56 Extension theory
16A58 Deformation theory of rings and algebras [See also 13D10, 14D15, 32Gxx.]
16A60 Homological dimension
16A61 Cohomology of algebras and rings
16A62 Homological methods
16A63 Torsion theories [See also 13D30, 18E40.]
16A64 Modules and representations
16A65 Endomorphism rings
16A66 Ideal theory, prime ideals and their generalizations
16A68 Lie, Jordan and other nonassociative structures on associative rings
16A70 Commutativity theorems
16A72 Automorphisms, derivations, other morphisms
16A74 Galois theory
16A76 Near-rings [See also 12K05.]
16A78 Semirings and other generalizations of rings
16A80 Topological rings and modules [See also 13Jxx.]
16A86 Ordered rings [See also 06F25.]
16A89 Equivalence of module categories
16A90 Categorical methods and categorical ring theory
16A99 Miscellaneous topics

17–XX NONASSOCIATIVE RINGS AND ALGEBRAS

17–00 Handbooks, dictionaries, and other reference works
17–01 Elementary exposition; textbooks
17–02 Advanced exposition (research surveys, monographs, etc.)
17–03 Historical (must also be assigned at least one classification number from Section 01)
17–04 Explicit machine computation and programs (not the theory of computation or programming)
17–06 Proceedings, conferences, etc.
17Axx General nonassociative rings
17A01 General theory
17A05 Power-associative
17A10 Commutative power-associative
17A15 Noncommutative Jordan algebras
17A20 Flexible algebras
17A25 Nodal algebras
17A30 Algebras satisfying other identities
17A35 Division algebras
17A36 Automorphisms, derivatives, other operators
17A40 Ternary compositions
17A42 Other n-ary compositions
17A45 Quadratic algebras (not quadratic Jordan algebras)
17A50 Free algebras
17A60 Structure theory in general nonassociative rings
17A65 Radical theory in general nonassociative rings
17A70 Super algebras
17A75 Composition algebras
17A99 None of the above, but in this section
17Bxx Lie algebras {For Lie groups, see 22Exx.}
17B05 Structure theory
17B10 Representations, algebraic theory (weights)
17B15 Representations, analytic theory
17B20 Simple, semisimple, reductive algebras (roots)
17B25 Exceptional algebras
17B30 Solvable, nilpotent algebras
17B35 Universal enveloping algebras, imbeddings
17B40 Automorphisms, derivations, other operators
17B45 Lie algebras of linear algebraic groups [See also 14Lxx and 20Gxx.]
17B50 Modular Lie algebras
17B55 Homological methods in Lie algebras
17B56 Cohomology of Lie algebras
17B60 Lie rings associated with other structures (associative, Jordan, etc.) [See also 15A30, 16A68, 17C40, 17C50.]
17B65 Infinite-dimensional Lie algebras [See also 22E65.]
17B67 Kac-Moody algebras (structure and representation theory)
17B70 Graded Lie algebras
17B99 None of the above, but in this section
17Cxx Jordan algebras (commutative)
17C05 Identities
17C10 Structure theory
17C15 Representations
17C20 Simple, semisimple algebras
17C25 Universal enveloping algebras
17C30 Automorphisms, derivations, other operators
17C35 Formally real domains of positivity [See also 32Nxx.]
17C40 Exceptional Jordan algebras and associated Lie groups
17C45 Homological methods in Jordan algebras
17C46 Cohomology of Jordan algebras
17C50 Jordan rings associated with other structures [See also 16A68, 17B60.]
17C65 Infinite-dimensional Jordan algebras
17C99 None of the above, but in this section
17Dxx Other nonassociative rings and algebras
17D05 Alternative rings
17D10 Mal′cev (Mal′tsev) rings
17D15 Right alternative rings
17D20 (γ, δ)-rings
17D25 Lie admissible algebras
17D92 Genetic algebras
17D99 None of the above, but in this section

18–XX CATEGORY THEORY, HOMOLOGICAL ALGEBRA

18–00 Handbooks, dictionaries, and other reference works
18–01 Elementary exposition; textbooks
18–02 Advanced exposition (research surveys, monographs, etc.)
18–03 Historical (must also be assigned at least one classification number from Section 01)
18–04 Explicit machine computation and programs (not the theory of computation or programming)
18–06 Proceedings, conferences, etc.
18Axx General theory of categories and functors
18A05 Definitions, generalizations
18A10 Graphs, diagram schemes, precategories, neocategories [See also 20Lxx.]
18A15 Foundations, relations to logic and deductive systems [See also 03–XX.]
18A20 Epimorphisms, monomorphisms, special classes of morphisms, null morphisms, factorization (bicategories)
18A22 Special properties of functors (faithful, full, etc.)
18A23 Natural morphisms, dinatural morphisms
18A25 Functor categories, comma categories
18A30 Limits and colimits (products, sums, directed limits, pushouts, fiber products, equalizers, kernels, ends and coends, etc.)
18A32 Factorization of morphisms (via images, coimages, dominions, codominions), substructures, quotient structures, congruences, amalgams
18A35 Categories admitting limits (complete categories), functors commuting with limits, continuous functors, completions
18A40 Adjoint functors (representable functors, universal constructions, reflective subcategories, reflections, etc.), constructions of adjoints (Kan extensions, etc.)
18A99 None of the above, but in this section

18Bxx	**Special categories**
18B05	Category of sets, characterizations [See also 03–XX.]
18B10	Category of relations, additive relations
18B15	Imbedding theorems, universal categories [See also 18E20.]
18B20	Categories of machines, automata, operative categories [See also 03D05, 68Qxx.]
18B25	Topoi [See also 03G30.]
18B30	Categories of topological spaces and continuous mappings [See also 54–XX.]
18B35	Preorders, orders and lattices (viewed as categories) [See also 06–XX.]
18B40	Groupoids, semigroupoids, semigroups, groups (viewed as categories) [See also 20Axx, 20Lxx, 20Mxx.]
18B99	None of the above, but in this section
18Cxx	**Categories and algebraic theories**
18C05	Equational categories [See also 03–XX, 08C05.]
18C10	Theories (e.g. algebraic theories), structure, and semantics [See also 03–XX.]
18C15	Triples (= standard construction, monad or triad), algebras for a triple, homology and derived functors for triples [See also 18Gxx.]
18C20	Algebras and Kleisli categories associated with monads
18C99	None of the above, but in this section
18Dxx	**Categories with structure**
18D05	Double categories, 2-categories, bicategories, hypercategories
18D10	Monoidal categories (= multiplicative categories) [See also 19D23.]
18D15	Closed categories (closed monoidal and Cartesian closed categories, etc.)
18D20	Enriched categories (over closed or monoidal categories)
18D25	Strong functors, strong adjunctions
18D30	Fibered categories
18D35	Structured objects in a category (group objects, etc.)
18D99	None of the above, but in this section
18Exx	**Abelian categories**
18E05	Preadditive, additive categories
18E10	Exact categories, abelian categories
18E15	Grothendieck categories
18E20	Imbedding theorems [See also 18B15.]
18E25	Derived functors and satellites
18E30	Derived categories, triangulated categories
18E35	Localization of categories
18E40	Torsion theories, radicals [See also 13D30, 16A63.]
18E99	None of the above, but in this section
18Fxx	**Categories and geometry**
18F05	Local categories and functors
18F10	Grothendieck topologies [See also 14F20.]
18F15	Abstract manifolds and fiber bundles [See also 55Rxx, 57Pxx.]
18F20	Presheaves and sheaves [See also 14F05, 32C35, 32L10, 54B40, 55N30.]
18F25	Algebraic K-theory and L-theory [See also 11Exx, 11R70, 11S70, 12–XX, 13D15, 14Cxx, 16A54, 19–XX, 57R65, 57R67.]
18F30	Grothendieck groups [See also 13D15, 16A54, 19Axx.]
18F99	None of the above, but in this section
18Gxx	**Homological algebra [See also 55Uxx.]**
18G05	Projectives and injectives [See also 13C10, 13C11, 16A50, 16A52.]
18G10	Resolutions; derived functors [See also 18E25.]
18G15	Ext and Tor, generalizations, Künneth formula [See also 55U25.]
18G20	Homological dimension [See also 13Dxx, 16A60, 16A62.]
18G25	Relative homological algebra, projective classes
18G30	Simplicial sets, simplicial objects (in a category) [See also 55U10.]
18G35	Chain complexes [See also 18E30, 55U15.]
18G40	Spectral sequences, hypercohomology [See also 55Txx.]
18G50	Nonabelian homological algebra [See also 19D99.]
18G55	Nonabelian homotopical algebra
18G99	None of the above, but in this section
19–XX	**K-THEORY (TO BE USED ONLY FOR SECONDARY CLASSIFICATIONS, UNTIL FURTHER NOTICE) [See also 16A54, 18F25.]**
19–00	Handbooks, dictionaries, and other reference works
19–01	Elementary exposition; textbooks
19–02	Advanced exposition (research surveys, monographs, etc.)
19–03	Historical (must also be assigned at least one classification number from Section 01)
19–04	Explicit machine computation and programs (not the theory of computation or programming)
19–06	Proceedings, conferences, etc.
19Axx	**Grothendieck groups and K_0 [See also 13D15, 18F30.]**
19A13	Stability for projective modules [See also 13C10.]
19A15	Efficient generation
19A22	Frobenius modules, induction theory
19A31	K_0 of group rings and orders
19A49	K_0 of other rings
19A99	None of the above, but in this section
19Bxx	**Whitehead groups and K_1**
19B10	Stable range conditions
19B14	Stability for linear groups
19B20	SK_1 of simple algebras
19B28	K_1 of group rings and orders
19B37	Congruence subgroup problems [See also 20H05.]
19B99	None of the above, but in this section
19Cxx	**Steinberg groups and K_2**
19C09	Central extensions and Schur multipliers
19C20	Symbols, presentations of K_2
19C25	Stability for K_2
19C30	K_2 and the Brauer group
19C40	Excision for K_2
19C99	None of the above, but in this section
19Dxx	**Higher algebraic K-theory**
19D06	Q- and plus-constructions
19D10	Algebraic K-theory of spaces
19D23	Symmetric monoidal categories [See also 18D10.]
19D25	Karoubi-Villamayor-Gersten K-theory
19D35	Negative K-theory, NK and Nil
19D45	Higher symbols, Milnor K-theory
19D55	K-theory and homology
19D99	None of the above, but in this section
19Exx	**K-theory in geometry**
19E08	K-theory of schemes
19E15	Algebraic cycles [See also 14C35.]
19E20	Relations with cohomology theories [See also 14F15.]
19E99	None of the above, but in this section
19Fxx	**K-theory in number theory [See also 11R70, 11S70.]**
19F05	Generalized class field theory
19F15	Symbols and arithmetic
19F27	Étale cohomology, higher regulators, zeta and L-functions [See also 11R42, 11S40, 14G10.]
19F99	None of the above, but in this section
19Gxx	**K-theory of forms [See also 11Exx.]**
19G05	Stability for quadratic modules
19G12	Witt groups of rings [See also 11E81.]
19G24	L-theory of group rings [See also 11E81.]
19G38	Relations with K-theory of rings
19G99	None of the above, but in this section
19Kxx	**K-theory and operator algebras [See mainly 46L80, and also 46M20.]**
19K14	K_0 as an ordered group, traces
19K33	EXT and K-homology
19K56	Index theory
19K99	None of the above, but in this section
19Lxx	**Topological K-theory [See also 55N15, 55R50, 55S25.]**
19L10	Riemann-Roch theorems, Chern characters
19L20	J-homomorphism, Adams operations [See also 55Q50.]
19L41	Connective K-theory, cobordism [See also 55N22.]
19L47	Equivariant K-theory [See also 55N91, 55P91, 55Q91, 55R91, 55S91.]
19L64	Computations, geometric applications
19L99	None of the above, but in this section
19M05	**Miscellaneous applications of K-theory**
20–XX	**GROUP THEORY AND GENERALIZATIONS**
20–00	Handbooks, dictionaries, and other reference works
20–01	Elementary exposition; textbooks
20–02	Advanced exposition (research surveys, monographs, etc.)
20–03	Historical (must also be assigned at least one classification number from Section 01)
20–04	Explicit machine computation and programs (not the theory of computation or programming)
20–06	Proceedings, conferences, etc.
20Axx	**Foundations**
20A05	Axiomatics and elementary properties
20A10	Metamathematical considerations {For word problems, see 20F10.}
20A15	Applications of logic to group theory
20A99	None of the above, but in this section
20Bxx	**Permutation groups**
20B05	General theory for finite groups
20B07	General theory for infinite groups
20B10	Characterization theorems
20B15	Uniprimitive groups
20B20	Multiply transitive finite groups
20B22	Multiply transitive infinite groups
20B25	Finite automorphism groups of algebraic, geometric, or combinatorial structures [See also 05Bxx, 12F10, 20G40, 20H30, 51–XX.]
20B27	Infinite automorphism groups [See also 12F10.]
20B30	Symmetric groups, general
20B35	Subgroups of symmetric groups
20B99	None of the above, but in this section

20Cxx	**Representation theory of groups [See also 19A22 (for representation rings and Burnside rings).]**
20C05	Group rings of finite groups and their modules [See also 16A26.]
20C07	Group rings of infinite groups and their modules [See also 16A27.]
20C10	Integral representations of finite groups
20C11	*p*-adic representations of finite groups
20C12	Integral representations of infinite groups
20C15	Ordinary representations and characters
20C20	Modular representations and characters
20C25	Projective representations and multipliers
20C30	Representations of finite symmetric groups and other special finite groups
20C32	Representations of infinite symmetric groups and other special infinite groups
20C35	Applications to physics
20C99	None of the above, but in this section
20Dxx	**Abstract finite groups**
20D05	Classification of simple and nonsolvable groups
20D06	Simple groups: alternating and classical groups [See also 20Gxx, 22Exx.]
20D08	Simple groups: sporadic groups
20D10	Solvable groups, theory of formations, π-length, ranks, factorable groups, *p*-groups [See also 20F17.]
20D15	Nilpotent groups, *p*-groups
20D20	Sylow subgroups, Sylow properties, π-groups, π-structure
20D25	Special subgroups (Frattini, Fitting, etc.)
20D30	Series and lattices of subgroups
20D35	Subnormal subgroups
20D40	Products of subgroups
20D45	Automorphisms
20D50	Covering of subgroups
20D60	Arithmetic and combinatorial problems
20D99	None of the above, but in this section
20Exx	**Structure and classification of infinite or finite groups**
20E05	Free nonabelian groups
20E06	Free products, free products with amalgamation, Higman-Neumann-Neumann extensions, and generalizations
20E07	Subgroup theorems
20E10	Quasivarieties and varieties of groups
20E15	Chains and lattices of subgroups, subnormal subgroups [See also 20F22.]
20E18	Limits, profinite groups
20E22	Extensions, wreath products, and other compositions
20E25	Local properties
20E26	Residual properties and generalizations
20E28	Maximal subgroups, minimal subgroups
20E32	Simple groups [See also 20D05.]
20E34	General structure theorems
20E36	General theorems concerning automorphisms of groups
20E99	None of the above, but in this section
20Fxx	**Special aspects of infinite or finite groups**
20F05	Generators, relations, and presentations
20F06	Cancellation theory
20F10	Word problems, other decision problems, connections with logic and automata [See also 03D05, 03D40, 06B25, 08A50, 68Qxx.]
20F12	Commutator calculus
20F14	Derived series, central series, and generalizations
20F16	Solvable groups, supersolvable groups
20F17	Formations of groups [See also 20D10.]
20F18	Nilpotent groups
20F19	Generalizations of solvable and nilpotent groups
20F22	Other classes of groups defined by subgroup chains
20F24	FC-groups and their generalizations
20F26	Special subgroups
20F28	Automorphism groups of groups [See also 20E36.]
20F29	Representations of groups as automorphism groups of algebraic systems
20F32	Geometric group theory [See also 05C25, 20Exx, 20Gxx.]
20F34	Fundamental groups and their automorphisms [See also 57M05, 57Sxx.]
20F36	Braid groups
20F38	Other groups related to topology or analysis
20F40	Associated Lie structures
20F45	Engel conditions
20F50	Periodic groups
20F60	Ordered groups [See mainly 06F15.]
20F99	None of the above, but in this section
20Gxx	**Linear algebraic groups (classical groups) {For arithmetic theory, see 11E57, 11H06; for geometric theory, see 14Lxx, 22Exx; for other methods in representation theory, see 22E45, 22E46, 22E47, 22E50, 22E55.}**
20G05	Representation theory

20G10	Cohomology theory
20G15	Linear algebraic groups over arbitrary fields
20G20	Linear algebraic groups over the reals, the complexes, the quaternions
20G25	Linear algebraic groups over local fields and their integers
20G30	Linear algebraic groups over global fields and their integers
20G35	Linear algebraic groups over adèles and other rings and schemes
20G40	Linear algebraic groups over finite fields
20G45	Applications to physics; explicit representations
20G99	None of the above, but in this section
20Hxx	**Other groups of matrices**
20H05	Unimodular groups, congruence subgroups [See also 11F06, 19B37, 22E40, 51F20.]
20H10	Fuchsian groups and their generalizations [See also 11F06, 22E40, 30F35, 32Nxx.]
20H15	Other geometric groups, including crystallographic groups [See also 51-XX, especially 51F15, and 82A60.]
20H20	Other matrix groups over fields
20H25	Other matrix groups over rings
20H30	Other matrix groups over finite fields
20H99	None of the above, but in this section
20Jxx	**Connections with homological algebra and category theory**
20J05	Homological methods in group theory
20J06	Cohomology of finite groups
20J10	Groups arising as cohomology groups
20J15	Category of groups
20J99	None of the above, but in this section
20Kxx	**Abelian groups**
20K01	Finite abelian groups
20K05	Finitely generated groups
20K10	Torsion groups, primary groups and generalized primary groups
20K12	Ulm sequences
20K15	Torsion free groups, finite rank
20K20	Torsion free groups, infinite rank
20K21	Mixed groups
20K25	Direct sums, direct products, etc.
20K26	Indecomposable groups
20K27	Subgroups
20K30	Automorphisms, homomorphisms, endomorphisms, etc.
20K35	Extensions
20K40	Homological and categorical methods
20K45	Topological methods
20K99	None of the above, but in this section
20Lxx	**Groupoids (small categories in which all morphisms are isomorphisms)**
20L05	General theory
20L10	Connections with group theory
20L13	Mappings of groupoids
20L15	Connections with topology
20L17	Connections with category theory
20L99	None of the above, but in this section
20Mxx	**Semigroups**
20M05	Free semigroups, generators and relations, word problem
20M07	Varieties of semigroups
20M10	General structure theory
20M11	Radical theory
20M12	Ideal theory
20M14	Commutative semigroups
20M15	Mappings of semigroups
20M17	Regular semigroups (use only for secondary classification)
20M18	Inverse semigroups (use only for secondary classification)
20M20	Semigroups of transformations, etc. [See also 47D05, 47H20, 54H15.]
20M25	Semigroup rings, multiplicative semigroups of rings
20M30	Representation of semigroups
20M35	Semigroups in automata theory, linguistics, etc. [See also 03D05, 68Qxx, 68Sxx.]
20M50	Connections with homological algebra and category theory
20M99	None of the above, but in this section
20Nxx	**Other generalizations of groups**
20N05	Loops, quasigroups [See also 05Bxx.]
20N07	Mappings of loops
20N10	Ternary systems (heaps, semiheaps, heapoids, etc.)
20N15	*n*-ary systems
20N99	None of the above, but in this section
20P05	**Probability methods in group theory**
22-XX	TOPOLOGICAL GROUPS, LIE GROUPS **{For transformation groups, see 54H15, 57Sxx, 58-XX. For abstract harmonic analysis, see 43-XX.}**
22-00	Handbooks, dictionaries, and other reference works
22-01	Elementary exposition; textbooks
22-02	Advanced exposition (research surveys, monographs, etc.)
22-03	Historical (must also be assigned at least one classification number from Section 01)

22–04	Explicit machine computation and programs (not the theory of computation or programming)
22–06	Proceedings, conferences, etc.
22Axx	**Topological algebraic systems {For topological rings and fields, see 12Jxx, 13Jxx, 16A80; for dual spaces of operator algebras and topological groups, see 47D35.}**
22A05	Structure of general topological groups
22A10	Analysis on general topological groups
22A15	Structure of topological semigroups
22A20	Analysis on topological semigroups
22A25	Representations of general topological groups and semigroups
22A26	Topological semilattices, lattices and applications [See also 06B30, 06F30.]
22A30	Other topological algebraic systems and their representations
22A99	None of the above, but in this section
22Bxx	**Locally compact abelian (LCA) groups**
22B05	General properties and structure of LCA groups
22B10	Structure of group algebras of LCA groups
22B99	None of the above, but in this section
22C05	**Compact groups**
22Dxx	**Locally compact groups and their algebras**
22D05	General properties and structure of locally compact groups
22D10	Unitary representations of locally compact groups
22D12	Other representations of locally compact groups
22D15	Group algebras of locally compact groups
22D20	Representations of group algebras
22D25	C^*-algebras and W^*-algebras arising from group representations [See also 46Lxx.]
22D30	Induced representations
22D35	Duality theorems
22D40	Ergodic theory on groups [See also 28Dxx and 43A60.]
22D45	Automorphism groups of locally compact groups
22D99	None of the above, but in this section
22Exx	**Lie groups {For the topology of Lie groups and homogeneous spaces, see 57Sxx, 57Txx; for analysis thereon, see 43A80, 43A85, 43A90.}**
22E05	Local Lie groups [See also 34–XX, 35–XX, 58H05.]
22E10	General properties and structure of complex Lie groups [See also 32M05.]
22E15	General properties and structure of real Lie groups
22E20	General properties and structure of other Lie groups
22E25	Nilpotent and solvable Lie groups
22E27	Representations of nilpotent and solvable Lie groups (special orbital integrals, non-Type I representations, etc.)
22E30	Analysis on real and complex Lie groups [See also 33A75, 43–XX.]
22E35	Analysis on p-adic Lie groups [See also 11R56.]
22E40	Discrete subgroups of Lie groups [See also 20Hxx and 32Nxx.]
22E41	Continuous cohomology [See also 57R32, 57Txx, 58H10.]
22E43	Structure and representation of the Lorentz group
22E45	Representations of Lie and linear algebraic groups over real fields: analytic methods {For the purely algebraic theory, see 20G05.}
22E46	Semisimple Lie groups and their representations
22E47	Representations of Lie and real algebraic groups: algebraic methods (Verma modules, etc.) [See also 17B35.]
22E50	Representations of Lie and linear algebraic groups over local fields
22E55	Representations of Lie and linear algebraic groups over global fields and adèle rings [See also 20G05.]
22E60	Lie algebras of Lie groups {For the algebraic theory of Lie algebras, see 17Bxx.}
22E65	Infinite-dimensional Lie groups and their Lie algebras [See also 17B65, 58B25, 58H05.]
22E70	Applications of Lie groups to physics; explicit representations [See also 81C40, 81Gxx.]
22E99	None of the above, but in this section
6–XX	**REAL FUNCTIONS [See also 54C30.]**
26–00	Handbooks, dictionaries, and other reference works
26–01	Elementary exposition; textbooks
26–02	Advanced exposition (research surveys, monographs, etc.)
26–03	Historical (must also be assigned at least one classification number from Section 01)
26–04	Explicit machine computation and programs (not the theory of computation or programming)
26–06	Proceedings, conferences, etc.
26Axx	**Functions of one variable**
26A03	Foundations: limits and generalizations, elementary topology of the line
26A06	One-variable calculus
26A09	Elementary functions
26A12	Rate of growth of functions, orders of infinity, slowly increasing functions [See also 26A48.]

26A15	Continuity and related questions (modulus of continuity, semicontinuity, discontinuities, etc.) {For properties determined by Fourier coefficients, see 42A16; for those determined by approximation properties, see 41A25.}
26A16	Lipschitz (Hölder) classes
26A18	Iteration [See also 39B10, 47H10, 54H25, 58F08.]
26A21	Classification of real functions; Baire classification of sets and functions [See also 04A15, 28A05, 54C50.]
26A24	Differentiation (functions of one variable): general theory, generalized derivatives, mean-value theorems [See also 28A15.]
26A27	Nondifferentiability (nondifferentiable functions, points of nondifferentiability), discontinuous derivatives
26A30	Singular functions, Cantor functions, functions with other special properties
26A33	Fractional derivatives and integrals
26A36	Antidifferentiation
26A39	Denjoy and Perron integrals, other special integrals
26A42	Integrals of Riemann, Stieltjes and Lebesgue type [See also 28–XX.]
26A45	Functions of bounded variation, generalizations
26A46	Absolutely continuous functions
26A48	Monotonic functions, generalizations
26A51	Convexity, generalizations
26A99	None of the above, but in this section
26Bxx	**Functions of several variables**
26B05	Continuity and differentiation questions
26B10	Implicit function theorems, Jacobians, transformations with several variables
26B12	Calculus of vector functions
26B15	Integration: length, area, volume [See also 28A75, 51M25.]
26B20	Integral formulas (Stokes, Gauss, Green, etc.)
26B25	Convexity, generalizations
26B30	Absolutely continuous functions, functions of bounded variation
26B35	Special properties of functions of several variables, Hölder conditions, etc.
26B40	Representation and superposition of functions
26B99	None of the above, but in this section
26Cxx	**Polynomials, rational functions**
26C05	Polynomials: analytic properties, inequalities, etc.
26C10	Polynomials: location of zeros [See also 12D10, 30C15, 65H05.]
26C15	Rational functions [See also 14G30.]
26C99	None of the above, but in this section
26Dxx	**Inequalities {For maximal function inequalities, see 42B25; for functional inequalities, see 39C05.}**
26D05	Inequalities for trigonometric functions and polynomials
26D10	Inequalities involving derivatives and differential and integral operators
26D15	Inequalities for sums, series and integrals
26D20	Other analytical inequalities
26D99	None of the above, but in this section
26Exx	**Miscellaneous topics [See also 58Cxx.]**
26E05	Real-analytic functions
26E10	C^∞-functions, quasi-analytic functions
26E15	Calculus of functions on infinite-dimensional spaces
26E20	Calculus of functions taking values in infinite-dimensional spaces
26E25	Set-valued functions [See also 54C60.]
26E30	Non-Archimedean analysis [See also 12J25.]
26E35	Nonstandard analysis [See also 03H05.]
26E99	None of the above, but in this section
28–XX	**MEASURE AND INTEGRATION {For analysis on manifolds, see 58–XX.}**
28–00	Handbooks, dictionaries, and other reference works
28–01	Elementary exposition; textbooks
28–02	Advanced exposition (research surveys, monographs, etc.)
28–03	Historical (must also be assigned at least one classification number from Section 01)
28–04	Explicit machine computation and programs (not the theory of computation or programming)
28–06	Proceedings, conferences, etc.
28Axx	**Classical measure theory**
28A05	Classes of sets (Borel fields, σ-rings, etc.), measurable sets, Suslin sets, analytic sets [See also 04A15, 26A21, 54H05.]
28A10	Real- or complex-valued set functions
28A12	Contents, measures, outer measures, capacities
28A15	Abstract differentiation theory, differentiation of set functions [See also 26A24.]
28A20	Measurable and nonmeasurable functions, sequences of measurable functions, modes of convergence
28A25	Integration with respect to measures and other set functions
28A33	Spaces of measures, convergence of measures [See also 46E27, 60Bxx.]
28A35	Measures and integrals in product spaces
28A50	Integration and disintegration of measures
28A51	Lifting theory [See also 46G15.]

28A60	Measures on Boolean rings, measure algebras [See also 54H10.]
28A75	Length, area, volume, other geometric measure theory [See also 26B15, 49F20.]
28A99	None of the above, but in this section
28Bxx	**Measures and integrals with values in abstract spaces**
28B05	Vector-valued measures and integrals [See also 46G10.]
28B10	Group- or semigroup-valued measures and integrals
28B15	Measures and integrals with values in general ordered systems
28B20	Set-valued measures; integration of set-valued functions; measurable selections [See also 54C60, 54C65.]
28B99	None of the above, but in this section
28Cxx	**Measures on spaces with additional structure [See also 46G12, 58C35, 58D20.]**
28C05	Integration theory via linear functionals (Radon measures, Daniell integrals, etc.), representing measures
28C10	Measures on topological groups, Haar measures, invariant measures [See also 43A05.]
28C15	Measures on topological spaces (regularity of measures, etc.)
28C20	Measures and integrals in function spaces (Wiener measure, Gauss measure, etc.) [See also 58D20, 60B11.]
28C99	None of the above, but in this section
28Dxx	**Measure-theoretic ergodic theory [See also 22D40, 47A35, 54H20, 58Fxx, 60Fxx, 60G10.]**
28D05	Measure-preserving transformations
28D10	One-parameter continuous families of measure-preserving transformations
28D15	General groups of measure-preserving transformations
28D20	Entropy and other invariants
28D99	None of the above, but in this section
28Exx	**Miscellaneous topics**
28E05	Nonstandard measure theory [See also 03H05.]
28E10	Fuzzy measures [See also 03E72.]
28E99	None of the above, but in this section
30–XX	**FUNCTIONS OF A COMPLEX VARIABLE {For analysis on manifolds, see 58–XX.}**
30–00	Handbooks, dictionaries, and other reference works
30–01	Elementary exposition; textbooks
30–02	Advanced exposition (research surveys, monographs, etc.)
30–03	Historical (must also be assigned at least one classification number from Section 01)
30–04	Explicit machine computation and programs (not the theory of computation or programming)
30–06	Proceedings, conferences, etc.
30Axx	**General properties**
30A05	Monogenic properties of complex functions (including polygenic and areolar monogenic functions)
30A10	Inequalities in the complex domain
30A99	None of the above, but in this section
30Bxx	**Series expansions**
30B10	Power series (including lacunary series)
30B20	Random power series
30B30	Boundary behavior of power series, over-convergence
30B40	Analytic continuation
30B50	Dirichlet series and other series expansions, exponential series [See also 40–XX, 41–XX, 42–XX.]
30B60	Completeness problems, closure of a system of functions
30B70	Continued fractions [See also 11A55, 40A15.]
30B99	None of the above, but in this section
30Cxx	**Geometric function theory**
30C10	Polynomials
30C15	Zeros of polynomials, rational functions, and other analytic functions (e.g. zeros of functions with bounded Dirichlet integral) {For algebraic theory, see 12D10; for real methods, see 26C10.}
30C20	Conformal mappings of special domains
30C25	Covering theorems in conformal mapping theory
30C30	Numerical methods in conformal mapping theory [See also 65E05.]
30C35	General theory of conformal mappings
30C40	Kernel functions and applications
30C45	Special classes of univalent and multivalent functions (starlike, convex, bounded rotation, etc.)
30C50	Coefficient problems for univalent and multivalent functions
30C55	General theory of univalent and multivalent functions
30C60	Quasiconformal mappings
30C70	Extremal problems for conformal and quasiconformal mappings, variational methods
30C75	Extremal problems for conformal and quasiconformal mappings, other methods
30C80	Maximum principle; Schwarz's lemma, Lindelöf principle, analogues and generalizations; subordination
30C85	Capacity and harmonic measure in the complex plane [See also 31A15.]
30C99	None of the above, but in this section
30Dxx	**Entire and meromorphic functions, and related topics**
30D05	Functional equations in the complex domain, iteration and composition of analytic functions [See also 34A20, 39–XX.]
30D10	Representations of entire functions by series and integrals
30D15	Special classes of entire functions and growth estimates
30D20	Entire functions, general theory
30D30	Meromorphic functions, general theory
30D35	Distribution of values, Nevanlinna theory
30D40	Cluster sets, prime ends, boundary behavior
30D45	Normal functions, normal families
30D50	Blaschke products, bounded characteristic, bounded functions, functions with positive real part
30D55	H^p-classes
30D60	Quasianalytic and other classes of functions
30D99	None of the above, but in this section
30Exx	**Miscellaneous topics of analysis in the complex domain**
30E05	Moment problems, interpolation problems
30E10	Approximation in the complex domain
30E15	Asymptotic representations in the complex domain
30E20	Integration, integrals of Cauchy type, integral representations of analytic functions [See also 45Exx.]
30E25	Boundary value problems [See also 45Exx.]
30E99	None of the above, but in this section
30Fxx	**Riemann surfaces**
30F10	Compact Riemann surfaces and uniformization [See also 14H15, 32G15.]
30F15	Harmonic functions on Riemann surfaces
30F20	Classification theory of Riemann surfaces
30F25	Ideal boundary theory
30F30	Differentials on Riemann surfaces
30F35	Fuchsian groups and automorphic functions [See also 11Fxx, 20H10, 32Gxx, 32Nxx.]
30F40	Kleinian groups [See also 20H10.]
30F99	None of the above, but in this section
30Gxx	**Generalized function theory**
30G05	Non-Archimedean function theory [See also 12J25.]
30G10	Nonstandard function theory [See also 03H05.]
30G15	Topological function theory
30G20	Generalizations of Bers or Vekua type (pseudoanalytic, *p*-analytic, etc.)
30G25	Discrete analytic functions
30G30	Other generalizations of analytic functions (including abstract-valued functions)
30G35	Functions of hypercomplex variables and generalized variables
30G99	None of the above, but in this section
30H05	**Spaces and algebras of analytic functions [See also 32E25, 46Exx, 46J15.]**
31–XX	**POTENTIAL THEORY {For probabilistic potential theory, see 60J45.}**
31–00	Handbooks, dictionaries, and other reference works
31–01	Elementary exposition; textbooks
31–02	Advanced exposition (research surveys, monographs, etc.)
31–03	Historical (must also be assigned at least one classification number from Section 01)
31–04	Explicit machine computation and programs (not the theory of computation or programming)
31–06	Proceedings, conferences, etc.
31Axx	**Two-dimensional theory**
31A05	Harmonic, subharmonic, superharmonic functions
31A10	Integral representations
31A15	Potentials and capacity, harmonic measure, extremal length [See also 30C85.]
31A20	Boundary behavior (theorems of Fatou type, etc.)
31A25	Boundary value and inverse problems
31A30	Biharmonic, polyharmonic functions and equations, Poisson's equation
31A35	Connections with differential equations
31A99	None of the above, but in this section
31Bxx	**Higher-dimensional theory**
31B05	Harmonic, subharmonic, superharmonic functions
31B10	Integral representations
31B15	Potentials and capacities, extremal length
31B20	Boundary value and inverse problems
31B25	Boundary behavior
31B30	Biharmonic and polyharmonic equations and functions
31B35	Connections with differential equations
31B99	None of the above, but in this section
31Cxx	**Other generalizations**
31C05	Harmonic, subharmonic, superharmonic functions
31C10	Pluriharmonic and plurisubharmonic functions [See also 32F05.]
31C12	Potential theory on Riemannian manifolds [See also 53C20; for Hodge theory, see 58A14.]
31C15	Potentials and capacities

31C20	Discrete potential theory and numerical methods
31C25	Dirichlet spaces
31C35	Martin boundary theory [See also 60J50.]
31C99	None of the above, but in this section
31D05	**Axiomatic potential theory**
2–XX	**SEVERAL COMPLEX VARIABLES AND ANALYTIC SPACES {For infinite-dimensional holomorphy, see also 46G20, 58B12.}**
32–00	Handbooks, dictionaries, and other reference works
32–01	Elementary exposition; textbooks
32–02	Advanced exposition (research surveys, monographs, etc.)
32–03	Historical (must also be assigned at least one classification number from Section 01)
32–04	Explicit machine computation and programs (not the theory of computation or programming)
32–06	Proceedings, conferences, etc.
32Axx	**Holomorphic functions of several complex variables**
32A05	Power series, series of functions
32A07	Special domains (Reinhardt, Hartogs, tube domains, etc.)
32A10	Holomorphic functions
32A15	Entire functions
32A17	Normal families
32A20	Meromorphic functions
32A22	Nevanlinna theory: growth estimates {For geometric theory, see 32H25, 32H30.}
32A25	Integral representation
32A27	Local theory of residues [See also 32C30.]
32A30	Other generalizations of function theory of one complex variable (should also be assigned at least one classification number from Section 30) {For functions of several hypercomplex variables, see 30G35.}
32A35	H^p-spaces [See also 32M15, 42B30, 43A85, 46J15.]
32A40	Boundary behavior
32A45	Hyperfunctions [See also 46F15.]
32A99	None of the above, but in this section
32Bxx	**Local analytic geometry [See also 13–XX and 14–XX.]**
32B05	Analytic algebra and generalizations, preparation theorems
32B10	Germs of analytic sets
32B15	Analytic subsets of affine space
32B20	Semi-analytic sets and subanalytic sets
32B25	Triangulation and related questions
32B30	Local singularities [See also 14B05, 32C40, 32C42.]
32B99	None of the above, but in this section
32Cxx	**General theory of analytic spaces**
32C05	Real-analytic manifolds, real-analytic spaces [See also 14G30, 58A07.]
32C10	Complex manifolds {For almost complex manifolds, see 53C15.}
32C15	Complex spaces
32C20	Normal analytic spaces
32C25	Analytic subsets and submanifolds
32C30	Integration on analytic sets and spaces, currents {For local theory, see 32A25 or 32A27.}
32C35	Analytic sheaves and cohomology groups [See also 14Fxx, 18F20, 55N30.]
32C36	Local cohomology of analytic spaces
32C37	Duality theorems
32C38	Sheaves of differential operators and their modules [See also 35A27, 58G07.]
32C40	Singularities
32C42	Stratified sets, etc. [See also 32Bxx.]
32C45	Modifications, resolution of singularities [See also 14E15.]
32C99	None of the above, but in this section
32Dxx	**Analytic continuation**
32D05	Domains of holomorphy
32D10	Envelopes of holomorphy
32D15	Continuation of analytic objects
32D20	Removable singularities
32D25	Non-Archimedean function theory
32D99	None of the above, but in this section
32Exx	**Holomorphic convexity**
32E05	Holomorphically convex complex spaces, reduction theory
32E10	Stein spaces, Stein manifolds
32E15	Runge pairs
32E20	Polynomial convexity
32E25	Algebras of holomorphic functions [See also 30H05, 46J10, 46J15.]
32E27	Krasner-Tate algebras, etc. (algebras of holomorphic functions over non-Archimedean fields)
32E30	Holomorphic and polynomial approximation
32E35	Global boundary behavior of holomorphic functions
32E99	None of the above, but in this section
32Fxx	**Geometric convexity**
32F05	Plurisubharmonic functions and generalizations [See also 31C10.]
32F10	q-convexity, q-concavity
32F15	Pseudoconvex domains
32F20	Geometric results on $\bar{\partial}$-Neumann problems [See also 35N15.]
32F25	Real submanifolds in complex manifolds
32F30	Pseudoconvex manifolds
32F99	None of the above, but in this section
32Gxx	**Deformations of analytic structures**
32G05	Deformations of complex structures [See also 13D10, 16A58, 58H10, 58H15.]
32G07	Deformations of special (e.g. CR) structures
32G10	Deformations of submanifolds and subspaces
32G11	Deformations of singularities
32G13	Analytic moduli problems {For algebraic moduli problems, see 14D20.}
32G15	Moduli of Riemann surfaces, Teichmüller theory [See also 14H15, 30Fxx.]
32G20	Period matrices [See also 14H05.]
32G99	None of the above, but in this section
32Hxx	**Holomorphic mappings**
32H05	Representative domains
32H10	Bergman kernel function
32H15	Invariant metrics and pseudodistances
32H20	Hyperbolic complex manifolds
32H25	Picard-type theorems and generalizations {For function-theoretic properties, see 32A22.}
32H30	Value distribution theory in higher dimensions {For function-theoretic properties, see 32A22.}
32H35	Proper mappings, finiteness theorems
32H99	None of the above, but in this section
32Jxx	**Compact analytic spaces {For Riemann surfaces, see 14Hxx, 30Fxx.}**
32J05	Compactification
32J10	Algebraic dependence theorems
32J15	Compact surfaces
32J20	Algebraicity criteria
32J25	Transcendental methods of algebraic geometry [See also 14C30.]
32J99	None of the above, but in this section
32Kxx	**Generalizations of analytic spaces (should also be assigned at least one other classification number in this section)**
32K05	Banach analytic spaces [See also 58Bxx.]
32K10	Non-Archimedean analytic spaces
32K15	Differentiable functions on analytic spaces, differentiable spaces [See also 58C25.]
32K99	None of the above, but in this section
32Lxx	**Holomorphic fiber spaces [See also 55Rxx.]**
32L05	Holomorphic fiber bundles and generalizations
32L10	Sheaves and cohomology of sections of holomorphic vector bundles, general results [See also 18F20, 55N30.]
32L15	Bundle convexity [See also 32F10.]
32L20	Vanishing theorems
32L25	Twistor theory, double fibrations
32L99	None of the above, but in this section
32Mxx	**Complex spaces with a group of automorphisms**
32M05	Complex Lie groups, automorphism groups of complex spaces [See also 22E10.]
32M10	Homogeneous complex manifolds [See also 14M17, 57T15.]
32M15	Hermitian symmetric spaces, bounded symmetric domains [See also 22E10, 22E40, 53C35, 57T15.]
32M99	None of the above, but in this section
32Nxx	**Automorphic functions [See also 11Fxx, 20H10, 22E40, 30F35.]**
32N05	General theory of automorphic functions of several complex variables
32N10	Automorphic forms
32N15	Automorphic functions in symmetric domains
32N99	None of the above, but in this section
33–XX	SPECIAL FUNCTIONS **{33–XX deals with the properties of functions as functions. General systems of orthogonal functions are treated in 42C05. Expansions in orthogonal functions are treated in 42C10, 42C15.}**
33–00	Handbooks, dictionaries, and other reference works
33–01	Elementary exposition; textbooks
33–02	Advanced exposition (research surveys, monographs, etc.)
33–03	Historical (must also be assigned at least one classification number from Section 01)
33–04	Explicit machine computation and programs (not the theory of computation or programming)
33–06	Proceedings, conferences, etc.
33A10	Exponential and trigonometric functions
33A15	Gamma and beta functions
33A20	Error function, probability integral
33A25	Elliptic functions and integrals
33A30	Simple hypergeometric functions of one and several variables
33A35	Generalized hypergeometric functions of one and several variables (E-functions, G-functions, H-functions, etc.)
33A40	Cylindrical functions, Bessel functions

33A45	Spherical functions (Legendre polynomials and functions, spherical harmonics), ultraspherical polynomials
33A50	Gegenbauer functions
33A55	Lamé, Mathieu, spheroidal wave functions
33A60	Other wave functions
33A65	Orthogonal special functions and polynomials (Chebyshev, Hermite, Jacobi, Laguerre, etc.)
33A70	Other special functions
33A75	Special functions and Lie groups [See also 22Exx, 43A80.]
33A99	Miscellaneous topics
34-XX	ORDINARY DIFFERENTIAL EQUATIONS
34-00	Handbooks, dictionaries, and other reference works
34-01	Elementary exposition; textbooks
34-02	Advanced exposition (research surveys, monographs, etc.)
34-03	Historical (must also be assigned at least one classification number from Section 01)
34-04	Explicit machine computation and programs (not the theory of computation or programming)
34-06	Proceedings, conferences, etc.
34Axx	**General theory**
34A05	Solutions in closed form, integration by quadratures, reduction of differential equations
34A08	Equations not solved with respect to the highest-order derivative, singular solutions
34A10	Initial value problems: general existence and uniqueness theorems; continuous dependence of solutions on parameters, initial conditions and boundary conditions [See also 45D05.]
34A15	Initial value problems: continuation of solutions
34A20	Differential equations in the complex domain [See also 30D05.]
34A25	Analytical theory: series, transformations, transforms, operational calculus, etc. [See also 44-XX, 47E05.]
34A30	Linear equations and systems
34A34	Nonlinear equations and systems, general
34A35	Differential equations of infinite order
34A40	Differential inequalities
34A45	Theoretical approximation of solutions
34A50	Numerical approximation of solutions {For numerical analysis, see 65Lxx.}
34A55	Inverse problems
34A60	Equations with multivalued right-hand sides [See also 49A50, 49E10.]
34A99	None of the above, but in this section
34Bxx	**Boundary value problems**
34B05	Linear equations
34B10	Multipoint boundary value problems
34B15	Nonlinear boundary value problems
34B20	Weyl theory and its generalizations
34B25	Spectral theory, Sturm-Liouville, and scattering theory; eigenfunctions, eigenvalues, and expansions [See also 42-XX, 43-XX, 45C05, 47Axx, 47Bxx, 47E05.]
34B27	Green functions
34B30	Special equations (Mathieu, Hill, Bessel, etc.) [See also 33-XX.]
34B99	None of the above, but in this section
34Cxx	**Qualitative theory**
34C05	Location of integral curves, singular points, limit cycles
34C10	Zeros, disconjugacy, oscillation and comparison of solutions
34C11	Growth, boundedness of solutions
34C15	Nonlinear oscillations
34C20	Transformation and reduction of equations and systems
34C25	Periodic solutions
34C27	Almost-periodic solutions
34C28	Other types of "recurrent" solutions
34C29	Averaging method [See also 47H10.]
34C30	Manifolds of solutions
34C35	Dynamical systems [See also 54H20, 58Fxx, 70-XX.]
34C40	Equations and systems on manifolds [See mainly 58Fxx, 58Gxx.]
34C45	Method of integral manifolds
34C50	Method of accelerated convergence
34C99	None of the above, but in this section
34Dxx	**Stability theory [See also 58F10, 93Dxx.]**
34D05	Asymptotic properties; characteristic exponents
34D10	Perturbations
34D15	Singular perturbations
34D20	Lyapunov stability
34D25	Popov-type stability
34D30	Structural stability and analogous concepts [See also 58Fxx.]
34D40	Ultimate boundedness
34D99	None of the above, but in this section
34Exx	**Asymptotic theory**
34E05	Asymptotic expansions
34E10	Perturbations
34E15	Singular perturbations, general theory
34E20	Singular perturbations, turning point theory, WKB-methods
34E99	None of the above, but in this section
34F05	**Equations and systems with randomness [See also 60H10, 93Exx.]**
34Gxx	**Differential equations in abstract spaces [See also 58D25.]**
34G10	Linear equations [See also 47Axx, 47Bxx, 47D05.]
34G20	Nonlinear equations [See also 47Hxx.]
34G99	None of the above, but in this section
34H05	**Control problems [See also 49-XX, 93-XX.]**
34Kxx	**Functional-differential and differential-difference equations , with or without deviating (or retarded) arguments**
34K05	General theory
34K10	Boundary value problems
34K15	Qualitative theory
34K20	Stability theory
34K25	Asymptotic theory
34K30	Equations in abstract spaces
34K35	Control problems
34K99	None of the above, but in this section
35-XX	PARTIAL DIFFERENTIAL EQUATIONS
35-00	Handbooks, dictionaries, and other reference works
35-01	Elementary exposition; textbooks
35-02	Advanced exposition (research surveys, monographs, etc.)
35-03	Historical (must also be assigned at least one classification number from Section 01)
35-04	Explicit machine computation and programs (not the theory of computation or programming)
35-06	Proceedings, conferences, etc.
35Axx	**General theory**
35A05	General existence and uniqueness theorems
35A07	Local existence and uniqueness theorems [See also 35H05, 35Sxx.]
35A08	Fundamental solutions
35A10	Cauchy-Kowalewski theorems
35A15	Variational methods
35A20	Analytic methods, singularities
35A22	Transform methods
35A25	Other special methods
35A27	Sheaf-theoretic and microlocal methods; methods of homological algebra [See also 32C38, 58G07.]
35A30	Geometric theory, characteristics, transformations
35A35	Theoretical approximation to solutions
35A40	Numerical approximation to solutions {For numerical analysis, see 65Mxx, 65Nxx, 65P05.}
35A99	None of the above, but in this section
35Bxx	**Qualitative properties of solutions**
35B05	Comparison theorems; oscillation, zeros and growth of solutions
35B10	Periodic solutions
35B15	Almost periodic solutions
35B20	Perturbations
35B25	Singular perturbations
35B30	Dependence of solutions on initial and boundary data, parameters
35B32	Bifurcation
35B35	Stability, boundedness
35B37	Control [See also 49-XX, 93-XX.]
35B40	Asymptotic behavior of solutions
35B45	A priori estimates
35B50	Maximum principles
35B60	Continuation and prolongation [See also 58A15, 58A17, 58Hxx.]
35B65	Smoothness of solutions
35B99	None of the above, but in this section
35Cxx	**Representations of solutions**
35C05	Solutions in closed form
35C10	Series solutions, expansion theorems
35C15	Integral representations
35C20	Asymptotic expansions
35C99	None of the above, but in this section
35Dxx	**Generalized solutions**
35D05	Existence of generalized solutions
35D10	Regularity of generalized solutions
35D99	None of the above, but in this section
35Exx	**Equations and systems with constant coefficients [See also 35N05.]**
35E05	Fundamental solutions
35E10	Convexity properties
35E15	Initial value problems
35E20	General theory
35E99	None of the above, but in this section
35Fxx	**General first-order equations and systems**
35F05	Linear equations and systems, general
35F10	Initial value problems for linear equations and systems
35F15	Boundary value problems for linear equations and systems
35F20	Nonlinear equations and systems, general
35F25	Initial value problems for nonlinear equations and systems

35F30	Boundary value problems for nonlinear equations and systems
35F99	None of the above, but in this section
35Gxx	**General higher-order equations and systems**
35G05	Linear equations and systems, general
35G10	Initial value problems for linear equations and systems
35G15	Boundary value problems for linear equations and systems
35G20	Nonlinear equations and systems, general
35G25	Initial value problems for nonlinear equations and systems
35G30	Boundary value problems for nonlinear equations and systems
35G99	None of the above, but in this section
35H05	**Hypoelliptic equations and systems [See also 58Gxx.]**
35Jxx	**Elliptic equations and systems [See also 58G05, 58G10.]**
35J05	Laplace equation, reduced wave equation (Helmholtz), Poisson equation
35J10	Schrödinger operator [See also 47A40.]
35J15	Second-order equations, general
35J20	Second-order equations, variational methods
35J25	Second-order equations, boundary value problems
35J30	Higher-order equations, general
35J35	Higher-order equations, variational methods
35J40	Higher-order equations, boundary value problems
35J45	Systems, general
35J50	Systems, variational methods
35J55	Systems, boundary value problems
35J60	Nonlinear equations and systems
35J65	Nonlinear boundary value problems for linear equations and systems; boundary value problems for nonlinear equations and systems
35J67	Boundary values of solutions
35J70	Equations and systems of degenerate type
35J85	Unilateral problems; variational inequalities [See also 35R35, 49A29.]
35J99	None of the above, but in this section
35Kxx	**Parabolic equations and systems [See also 58G11.]**
35K05	Heat equation
35K10	Second-order equations, general
35K15	Second-order equations, initial value problems
35K20	Second-order equations, boundary value problems
35K22	Evolution equations (any order in the spatial derivatives) [See also 58D25.]
35K25	Higher-order equations, general
35K30	Higher-order equations, initial value problems
35K35	Higher-order equations, boundary value problems
35K40	Systems, general
35K45	Systems, initial value problems
35K50	Systems, boundary value problems
35K55	Nonlinear equations and systems
35K57	Reaction-diffusion equations
35K60	Nonlinear boundary value problems for linear equations and systems; boundary value problems for nonlinear equations and systems
35K65	Equations and systems of degenerate type
35K70	Ultraparabolic, pseudoparabolic problems
35K85	Unilateral problems; variational inequalities [See also 35R35, 49A29.]
35K99	None of the above, but in this section
35Lxx	**Hyperbolic equations and systems [See also 58G16.]**
35L05	Wave equation
35L10	Second-order equations, general
35L15	Second-order equations, initial value problems
35L20	Second-order equations, boundary value problems
35L25	Higher-order equations, general
35L30	Higher-order equations, initial value problems
35L35	Higher-order equations, boundary value problems
35L40	First-order systems, general
35L45	First-order systems, initial value problems
35L50	First-order systems, boundary value problems
35L55	Higher-order hyperbolic systems
35L60	First-order nonlinear equations and systems
35L65	Conservation laws [See also 76–XX.]
35L67	Shocks and singularities
35L70	Second-order nonlinear equations and systems
35L75	Higher (> 2) order nonlinear equations and systems
35L80	Equations and systems of degenerate type
35L85	Unilateral problems; variational inequalities [See also 35R35, 49A29.]
35L99	None of the above, but in this section
35M05	**Equations and systems of mixed (Tricomi, etc.) or composite type {For degenerate types, elliptic, see 35Jxx, parabolic, see 35Kxx, hyperbolic, see 35Lxx, etc.}**
35Nxx	**Overdetermined systems [See also 58G05, 58G07, 58Hxx.]**
35N05	Constant coefficients
35N10	Variable coefficients, general
35N15	$\bar{\partial}$-Neumann problem and generalizations; formal complexes [See also 32Fxx and 58G05.]
35N99	None of the above, but in this section
35Pxx	**Spectral theory and eigenvalue problems [See also 47Axx, 47Bxx, 47F05.]**
35P05	General spectral theory
35P10	Completeness of eigenfunctions, eigenfunction expansions
35P15	Estimation of eigenvalues, upper and lower bounds
35P20	Asymptotic distribution of eigenvalues and eigenfunctions
35P25	Scattering theory [See also 47A40.]
35P30	Nonlinear eigenvalue problems
35P99	None of the above, but in this section
35Qxx	**Special equations and problems [See also 35J05, 35K05, 35L05.]**
35Q05	Euler-Poisson-Darboux equation and generalizations
35Q10	Navier-Stokes equations [See also 76D05.]
35Q15	Riemann-Hilbert problems [See also 30E25, 31A25, 31B20.]
35Q20	Particular equations of mathematical physics (Korteweg-de Vries, Burgers, etc.)
35Q99	None of the above, but in this section
35Rxx	**Miscellaneous topics {For equations on manifolds, see 58Gxx; for manifolds of solutions, see 58Bxx; for stochastic PDEs, see also 60H15.}**
35R05	Equations with discontinuous coefficients or data
35R10	Difference-partial differential equations, equations with time lag
35R15	Equations on function spaces [See also 58D25.]
35R20	Operator equations, general [See also 34Gxx, 47A50, 47H15.]
35R25	Improperly posed problems
35R30	Inverse problems (undetermined coefficients, etc.)
35R35	Free boundary problems
35R45	Differential inequalities
35R50	Differential equations of infinite order
35R60	Equations and systems with randomness
35R99	None of the above, but in this section
35Sxx	**Pseudodifferential operators [See also 47G05, 58G15.]**
35S05	General theory
35S10	Initial value problems
35S15	Boundary value problems
35S99	None of the above, but in this section
39–XX	**FINITE DIFFERENCES AND FUNCTIONAL EQUATIONS**
39–00	Handbooks, dictionaries, and other reference works
39–01	Elementary exposition; textbooks
39–02	Advanced exposition (research surveys, monographs, etc.)
39–03	Historical (must also be assigned at least one classification number from Section 01)
39–04	Explicit machine computation and programs (not the theory of computation or programming)
39–06	Proceedings, conferences, etc.
39Axx	**Finite differences [See also 65–XX.]**
39A05	General
39A10	Difference equations
39A11	Stability of difference equations
39A12	Discrete version of topics in analysis
39A70	Difference operators [See also 47B39.]
39A99	None of the above, but in this section
39Bxx	**Functional equations [See also 30D05.]**
39B05	General
39B10	Equations containing iterates, equations of rank one
39B20	Equations for one unknown function of one variable, rank greater than one
39B30	Equations for several unknown functions of one variable, systems
39B40	Equations for functions of several variables
39B50	Functional equations on algebraic structures
39B60	Matrix functional equations
39B70	Functional equations on abstract spaces or structures
39B99	None of the above, but in this section
39C05	**Functional inequalities [See also 26Dxx.]**
40–XX	**SEQUENCES, SERIES, SUMMABILITY**
40–00	Handbooks, dictionaries, and other reference works
40–01	Elementary exposition; textbooks
40–02	Advanced exposition (research surveys, monographs, etc.)
40–03	Historical (must also be assigned at least one classification number from Section 01)
40–04	Explicit machine computation and programs (not the theory of computation or programming)
40–06	Proceedings, conferences, etc.
40Axx	**Convergence and divergence of infinite limiting processes**
40A05	Convergence and divergence of series and sequences
40A10	Convergence and divergence of integrals
40A15	Convergence and divergence of continued fractions [See also 30B70.]
40A20	Convergence and divergence of infinite products
40A25	Approximation to limiting values (summation of series, etc.) {For the Euler-Maclaurin summation formula, see 65B15.}
40A30	Convergence and divergence of series and sequences of functions
40A99	None of the above, but in this section

40B05	**Multiple sequences and series (should also be assigned at least one other classification number in this section)**
40Cxx	**General summability methods**
40C05	Matrix methods
40C10	Integral methods
40C15	Function-theoretic methods (including power series methods and semicontinuous methods)
40C99	None of the above, but in this section
40Dxx	**Direct theorems on summability**
40D05	General theorems
40D09	Structure of summability fields
40D10	Tauberian constants and oscillation limits
40D15	Convergence factors and summability factors
40D20	Summability and bounded fields of methods
40D25	Inclusion and equivalence theorems
40D99	None of the above, but in this section
40Exx	**Inversion theorems**
40E05	Tauberian theorems, general
40E10	Growth estimates
40E15	Lacunary inversion theorems
40E20	Tauberian constants
40E99	None of the above, but in this section
40F05	**Absolute and strong summability**
40Gxx	**Special methods of summability**
40G05	Cesàro, Euler, Nörlund and Hausdorff methods
40G10	Abel, Borel and power series methods
40G99	None of the above, but in this section
40H05	**Functional analytic methods in summability**
40J05	**Summability in abstract structures [See also 43A55, 46A35, 46B15.]**
41-XX	APPROXIMATIONS AND EXPANSIONS {**For all approximation theory in the complex domain, see 30E05 and 30E10; for all trigonometric approximation and interpolation, see 42A10 and 42A15; for numerical approximation, see 65Dxx.**}
41-00	Handbooks, dictionaries, and other reference works
41-01	Elementary exposition; textbooks
41-02	Advanced exposition (research surveys, monographs, etc.)
41-03	Historical (must also be assigned at least one classification number from Section 01)
41-04	Explicit machine computation and programs (not the theory of computation or programming)
41-06	Proceedings, conferences, etc.
41A05	Interpolation [See also 42A15 and 65D05.]
41A10	Approximation by polynomials {For approximation by trigonometric polynomials, see 42A10.}
41A15	Spline approximation
41A17	Inequalities in approximation (Bernstein, Jackson, Nikol′skiĭ type inequalities)
41A20	Approximation by rational functions
41A21	Padé approximation
41A25	Rate of convergence, degree of approximation
41A27	Inverse theorems
41A28	Simultaneous approximation
41A29	Approximation with constraints
41A30	Approximation by other special function classes
41A35	Approximation by operators (in particular, by integral operators)
41A36	Approximation by positive operators
41A40	Saturation
41A44	Best constants
41A45	Approximation by arbitrary linear expressions
41A46	Approximation by arbitrary nonlinear expressions; widths and entropy
41A50	Best approximation, including Chebyshev systems
41A52	Uniqueness of best approximation
41A55	Approximate quadratures
41A58	Series expansions (e.g. Taylor, Lidstone series, but not Fourier series)
41A60	Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30E15.]
41A63	Multidimensional problems (should also be assigned at least one other classification number in this section)
41A65	Abstract approximation theory (approximation in normed linear spaces and other abstract spaces)
41A80	Remainders in approximation formulas
41A99	Miscellaneous topics
42-XX	FOURIER ANALYSIS
42-00	Handbooks, dictionaries, and other reference works
42-01	Elementary exposition; textbooks
42-02	Advanced exposition (research surveys, monographs, etc.)
42-03	Historical (must also be assigned at least one classification number from Section 01)
42-04	Explicit machine computation and programs (not the theory of computation or programming)
42-06	Proceedings, conferences, etc.
42Axx	**Fourier analysis in one variable**
42A05	Trigonometric polynomials, inequalities, extremal problems
42A10	Trigonometric approximation
42A15	Trigonometric interpolation
42A16	Fourier coefficients, Fourier series of functions with special properties, special Fourier series
42A20	Convergence of Fourier and trigonometric series
42A24	Summability of Fourier and trigonometric series
42A28	Absolute convergence, absolute summability
42A32	Trigonometric series of special types (positive coefficients, monotonic coefficients, etc.)
42A38	Fourier and Fourier-Stieltjes transforms and other transforms of Fourier type
42A45	Multipliers
42A50	Conjugate functions, conjugate series, singular integrals
42A55	Lacunary series of trigonometric and other functions; Riesz products
42A61	Probabilistic methods
42A63	Uniqueness of trigonometric expansions, uniqueness of Fourier expansions, Riemann theory, localization
42A65	Completeness of sets of functions
42A70	Trigonometric moment problems
42A75	Classical almost periodic functions, mean periodic functions [See also 43A60.]
42A82	Positive definite functions
42A85	Convolution, factorization
42A99	None of the above, but in this section
42Bxx	**Fourier analysis in several variables**
42B05	Fourier series and coefficients
42B10	Fourier and Fourier-Stieltjes transforms and other transforms of Fourier type
42B15	Multipliers
42B20	Singular integrals (Calderón-Zygmund, etc.)
42B25	Maximal functions, Littlewood-Paley theory
42B30	H^p-spaces
42B99	None of the above, but in this section
42Cxx	**Nontrigonometric Fourier analysis**
42C05	Orthogonal functions and polynomials, general theory [See also 33A65.]
42C10	Fourier series in special orthogonal functions (Legendre polynomials, Walsh functions, etc.)
42C15	Series of general orthogonal functions, generalized Fourier expansions, nonorthogonal expansions
42C20	Rearrangements and other transformations of Fourier and other orthogonal series
42C25	Uniqueness and localization for orthogonal series
42C30	Completeness of sets of functions
42C99	None of the above, but in this section
43-XX	ABSTRACT HARMONIC ANALYSIS {**For other analysis on topological and Lie groups, see 22Exx.**}
43-00	Handbooks, dictionaries, and other reference works
43-01	Elementary exposition; textbooks
43-02	Advanced exposition (research surveys, monographs, etc.)
43-03	Historical (must also be assigned at least one classification number from Section 01)
43-04	Explicit machine computation and programs (not the theory of computation or programming)
43-06	Proceedings, conferences, etc.
43A05	Measures on groups, semigroups, etc.
43A07	Means on groups, semigroups, etc.
43A10	Measure algebras on groups, semigroups, etc.
43A15	L^p-spaces and other function spaces on groups, semigroups, etc.
43A17	Analysis on ordered groups, H^p-theory
43A20	L^1-algebras on groups, semigroups, etc.
43A22	Homomorphisms and multipliers of function spaces on groups, semigroups, etc.
43A25	Fourier and Fourier-Stieltjes transforms on locally compact abelian groups
43A30	Fourier and Fourier-Stieltjes transforms on nonabelian groups and on semigroups, etc.
43A32	Other transforms and operators of Fourier type
43A35	Positive definite functions on groups, semigroups, etc.
43A40	Character groups and dual objects
43A45	Spectral synthesis on groups, semigroups, etc.
43A46	Special sets (thin sets, Kronecker sets, Helson sets, Ditkin sets, Sidon sets, etc.)
43A50	Convergence of Fourier series and of inverse transforms
43A55	Summability methods on groups, semigroups, etc. [See also 40J05.]
43A60	Almost periodic functions on groups and semigroups and their generalizations (recurrent functions, distal functions, etc.); almost automorphic functions
43A65	Representations of groups, semigroups, etc. [See also 22Dxx.]

43A70	Analysis on specific locally compact abelian groups [See also 11R56.]
43A75	Analysis on specific compact groups
43A77	Analysis on general compact groups
43A80	Analysis on other specific Lie groups [See also 22E30.]
43A85	Analysis on homogeneous spaces
43A90	Spherical functions [See also 22E45, 22E46.]
43A95	Categorical methods [See also 18–XX, 46Mxx.]
43A99	Miscellaneous topics
4–XX	**INTEGRAL TRANSFORMS, OPERATIONAL CALCULUS {For fractional derivatives and integrals, see 26A33. For numerical methods, see 65R10.}**
44–00	Handbooks, dictionaries, and other reference works
44–01	Elementary exposition; textbooks
44–02	Advanced exposition (research surveys, monographs, etc.)
44–03	Historical (must also be assigned at least one classification number from Section 01)
44–04	Explicit machine computation and programs (not the theory of computation or programming)
44–06	Proceedings, conferences, etc.
44A05	General transforms [See also 42A38.]
44A10	Laplace transform
44A15	Special transforms (Legendre, Hilbert, etc.)
44A20	Transforms of special functions
44A30	Multiple transforms
44A35	Convolution
44A40	Calculus of Mikusiński and other similar operational calculi
44A45	Classical operational calculus
44A55	Discrete operational calculus
44A60	Moment problems
44A99	Miscellaneous topics
5–XX	**INTEGRAL EQUATIONS**
45–00	Handbooks, dictionaries, and other reference works
45–01	Elementary exposition; textbooks
45–02	Advanced exposition (research surveys, monographs, etc.)
45–03	Historical (must also be assigned at least one classification number from Section 01)
45–04	Explicit machine computation and programs (not the theory of computation or programming)
45–06	Proceedings, conferences, etc.
45A05	**Linear integral equations**
45B05	**Fredholm integral equations**
45C05	**Eigenvalue problems [See also 34B25, 35Pxx, 45P05.]**
45D05	**Volterra integral equations [See also 34A10.]**
45Exx	**Singular integral equations [See also 30E20, 30E25, 44A15, 44A35.]**
45E05	Integral equations with kernels of Cauchy type [See also 35J15.]
45E10	Integral equations of the convolution type (Abel, Picard, Toeplitz and Wiener-Hopf type) [See also 47B35.]
45E99	None of the above, but in this section
45Fxx	**Systems of linear integral equations**
45F05	Systems of nonsingular linear integral equations
45F10	Dual, triple, etc., integral and series equations
45F15	Systems of singular linear integral equations
45F99	None of the above, but in this section
45Gxx	**Nonlinear integral equations [See also 47Hxx.]**
45G05	Singular nonlinear integral equations
45G10	Other nonlinear integral equations
45H05	**Miscellaneous special kernels [See also 44A15.]**
45J05	**Integro-ordinary differential equations**
45K05	**Integro-partial differential equations**
45Lxx	**Approximation of solutions**
45L05	Theoretical approximation of solutions
45L10	Numerical approximation of solutions {For numerical analysis, see 65R20.}
45L99	None of the above, but in this section
45Mxx	**Qualitative behavior**
45M05	Asymptotics
45M10	Stability theory
45M99	None of the above, but in this section
45N05	**Abstract integral equations, integral equations in abstract spaces**
45P05	**Integral operators [See also 47Axx, 47Bxx, 47G05.]**
6–XX	**FUNCTIONAL ANALYSIS {For manifolds modeled on topological linear spaces, see 57N20, 58Bxx.}**
46–00	Handbooks, dictionaries, and other reference works
46–01	Elementary exposition; textbooks
46–02	Advanced exposition (research surveys, monographs, etc.)
46–03	Historical (must also be assigned at least one classification number from Section 01)
46–04	Explicit machine computation and programs (not the theory of computation or programming)
46–06	Proceedings, conferences, etc.

46Axx	**Topological linear spaces**
46A05	Locally convex spaces
46A06	Metrizable topological linear spaces and their duals (F-, DF-spaces, etc.)
46A07	Barrelled spaces
46A09	Bornological spaces
46A10	Locally bounded topological linear spaces
46A12	Spaces defined by special inductive or projective limits (LF-, nuclear, Schwartz, Silva spaces, etc.) [See also 46M10, 46M40.]
46A14	Spaces defined by compactness properties (Montel spaces, etc.)
46A15	Other topological linear spaces
46A20	Duality theory
46A22	Extension and lifting of functionals and operators [See also 46M10.]
46A25	Reflexivity and semi-reflexivity
46A30	Open mappings and closed graph theorems and completeness (including B-, B_r-completeness)
46A32	Spaces of linear operators
46A35	Summability and bases
46A40	Ordered topological linear spaces, vector lattices [See also 06F20, 46B30.]
46A45	Sequence spaces (including Köthe sequence spaces)
46A50	Compactness in topological linear spaces
46A55	Convexity, Choquet theory [See also 52A07.]
46A99	None of the above, but in this section
46Bxx	**Normed linear spaces and Banach spaces {For function spaces, see 46Exx.}**
46B05	Topology in terms of the norms
46B10	Duality and reflexivity
46B15	Summability and bases
46B20	Geometry and structure
46B22	Spaces with Radon-Nikodým property [See also 46G10.]
46B25	Classical Banach spaces in the general theory
46B30	Banach lattices [See also 46A40.]
46B99	None of the above, but in this section
46Cxx	**Inner product spaces, Hilbert spaces {For function spaces, see 46Exx.}**
46C05	Geometry and topology of the spaces
46C10	Other properties of such spaces
46C99	None of the above, but in this section
46D05	**Spaces with indefinite inner product**
46Exx	**Linear function spaces and their duals [See also 30H05; for function algebras, see 46J10.]**
46E05	Lattices of continuous, differentiable or analytic functions
46E10	Topological linear spaces of continuous, differentiable or analytic functions
46E15	Banach spaces of continuous, differentiable or analytic functions
46E20	Hilbert spaces of continuous, differentiable or analytic functions
46E25	Rings and algebras of continuous, differentiable or analytic functions {For Banach function algebras, see 46J10, 46J15.}
46E27	Spaces of measures [See also 28A33.]
46E30	Spaces of measurable functions (L^p-spaces, Orlicz spaces, Köthe function spaces, Lorentz spaces, rearrangement invariant spaces, etc.)
46E35	Sobolev spaces and other spaces of "smooth" functions, imbedding theorems, trace theorems
46E39	Sobolev (and similar kinds of) spaces of functions of discrete variables
46E40	Spaces of vector- and operator-valued functions
46E99	None of the above, but in this section
46Fxx	**Distributions, generalized functions, distribution spaces {For distribution theory on nonlinear spaces, see 58Cxx.}**
46F05	Topological linear spaces of test functions and distributions
46F10	Operations with distributions
46F12	Integral transforms in distribution spaces [See also 42–XX, 44–XX.]
46F15	Hyperfunctions, analytic functionals [See also 32A25, 32A45, 32C35, 58G07.]
46F20	Distributions as boundary values of analytic functions [See also 30Exx, 32A40.]
46F25	Distributions on infinite-dimensional spaces [See also 58C35.]
46F99	None of the above, but in this section
46Gxx	**Measures, integration, derivative, holomorphy {For integration on infinite-dimensional spaces, see 28C20; for nonlinear functional analysis, see 58–XX, especially 58Cxx.}**
46G05	Derivatives
46G10	Vector-valued measures and integration [See also 28Bxx, 46B22.]
46G12	Measures and integration on abstract linear spaces [See also 28Cxx.]
46G15	Lifting theory [See also 28A51.]
46G20	Infinite-dimensional holomorphy [See also 32–XX, 58B12, 58C10.]
46G99	None of the above, but in this section
46Hxx	**Topological algebras, normed rings and algebras, Banach algebras {For group algebras, convolution algebras and measure algebras, see 43–XX.}**
46H05	General theory
46H10	Ideals and subalgebras
46H15	Representations
46H20	Structure, classification

46H25	Normed modules and Banach modules, topological modules (if not placed in 13–XX or 16–XX)
46H30	Functional calculus [See also 47A60.]
46H70	Jordan-Banach algebras, Banach-Lie algebras
46H99	None of the above, but in this section
46Jxx	**Commutative Banach algebras and commutative topological algebras**
46J05	General theory
46J10	Banach algebras of continuous functions, function algebras
46J15	Banach algebras of differentiable or analytic functions, H^p-spaces [See also 30D55, 30H05, 32A35, 32E25, 42B30.]
46J20	Ideals, maximal ideals, boundaries
46J25	Representations
46J30	Subalgebras
46J35	Structure, classification
46J99	None of the above, but in this section
46Kxx	**Rings and algebras with an involution**
46K05	General theory
46K10	Representations
46K15	Hilbert algebras
46K99	None of the above, but in this section
46Lxx	**C^*-algebras and von Neumann (W^*-) algebras [See also 22D25.]**
46L05	C^*-algebras, general theory
46L10	von Neumann algebras, general theory
46L30	States
46L35	Classifications, factors
46L40	Automorphisms, derivations
46L45	Decomposition theory
46L50	Noncommutative integration, noncommutative probability
46L55	Noncommutative dynamical systems [See also 28Dxx.]
46L60	Applications to physics
46L70	Jordan algebras, Lie algebras [See also 46H70.]
46L80	K-theory and operator algebras [See also 18Fxx, 19Kxx, 46M20, 55Rxx.]
46L99	None of the above, but in this section
46Mxx	**Categorical methods [See also 18–XX.]**
46M05	Tensor products
46M10	Projective and injective objects
46M15	Functors {For K-theory and EXT, see 19K33, 46L80, 46M20.}
46M20	Methods of algebraic topology (cohomology, sheaf and bundle theory, etc.) [See also 14F05, 18Fxx, 19–XX, 46L80, 55Rxx.]
46M35	Abstract interpolation of topological vector spaces
46M40	Inductive and projective limits [See also 46A12.]
46M99	None of the above, but in this section
46N05	**Miscellaneous applications of functional analysis**
46P05	**Functional analysis over fields other than R or C; non-Archimedean functional analysis [See also 12J25, 32E27.]**
46Q05	**Nonstandard functional analysis [See also 03Hxx.]**
46R05	**Constructive functional analysis [See also 03Fxx.]**
47–XX	**OPERATOR THEORY**
47–00	Handbooks, dictionaries, and other reference works
47–01	Elementary exposition; textbooks
47–02	Advanced exposition (research surveys, monographs, etc.)
47–03	Historical (must also be assigned at least one classification number from Section 01)
47–04	Explicit machine computation and programs (not the theory of computation or programming)
47–06	Proceedings, conferences, etc.
47Axx	**Single linear operators: general theory**
47A05	General (adjoints, conjugates, products, inverses, domains, ranges, etc.)
47A10	Spectrum, resolvent
47A12	Numerical range
47A15	Invariant subspaces
47A20	Dilations, extensions, compressions
47A25	Spectral sets
47A30	Norms (inequalities, more than one norm, etc.)
47A35	Ergodic theory [See also 28Dxx.]
47A40	Scattering theory [See also 34B25, 35P25, 47Dxx.]
47A45	Canonical models for contractions and nonselfadjoint operators
47A50	Equations involving linear operators, with vector unknowns
47A53	Fredholm operators
47A55	Perturbation theory
47A56	Functions whose values are linear operators (operator and matrix pencils, etc.)
47A60	Functional calculus
47A62	Equations involving linear operators, with operator unknowns
47A65	Structure theory
47A66	(Non)quasitriangular, (non)quasidiagonal operators
47A67	Representation theory
47A68	Factorization theory
47A70	Eigenfunction expansions, rigged Hilbert spaces; eigenvalue problems in general [See also 49Gxx.]
47A99	None of the above, but in this section
47Bxx	**Single linear operators: special classes of operators**
47B05	Compact operators, Riesz operators
47B10	Hilbert-Schmidt operators, trace class operators, nuclear operators, p-summing operators, etc.
47B15	Hermitian and normal operators (spectral measures, functional calculus, etc.)
47B20	Subnormal operators, hyponormal operators, etc.
47B25	Symmetric and selfadjoint operators (unbounded)
47B35	Toeplitz operators, Wiener-Hopf operators [See also 45P05, 47G05 for other integral operators.]
47B37	Operators on special spaces (weighted shifts, operators on sequence spaces, etc.)
47B38	Operators on function spaces
47B39	Difference operators [See also 39A70.]
47B40	Spectral operators, decomposable operators, etc.
47B44	Accretive operators, dissipative operators, etc.
47B47	Commutators, derivations
47B50	Operators on a space with an indefinite metric
47B55	Operators on ordered spaces
47B99	None of the above, but in this section
47Cxx	**Single linear operators as elements of algebraic systems**
47C05	Operators in algebras
47C10	Operators in $*$-algebras
47C15	Operators in C^*- or von Neumann algebras
47C99	None of the above, but in this section
47Dxx	**Algebraic systems of linear operators [See also 46Lxx.]**
47D05	Semigroups of operators {For nonlinear operators, see 47H20; see also 20M20.}
47D07	Markov semigroups {For Markov processes, see 60Jxx.}
47D10	Groups of operators
47D15	Linear spaces of operators
47D20	Convex sets and cones of operators
47D25	Operator algebras and ideals, on Hilbert space
47D30	Operator algebras and ideals, on Banach spaces and other linear topological spaces
47D35	Dual spaces of operator algebras and topological groups
47D40	Algebras of unbounded operators
47D45	Applications to physics
47D99	None of the above, but in this section
47E05	**Ordinary differential operators [See also 34B25, 58Fxx.]**
47F05	**Partial differential operators [See also 35Pxx, 58Gxx.]**
47G05	**Integral, integro-differential, and pseudodifferential operators [See also 35Sxx, 45P05, 58Gxx.]**
47Hxx	**Nonlinear operators {For global and geometric aspects, see 58–XX, especially 58Cxx.}**
47H05	Monotone operators
47H06	Accretive operators, dissipative operators, etc.
47H07	Monotone and positive operators on ordered Banach spaces or other ordered topological vector spaces
47H09	Nonexpansive mappings, ultimately compact mappings, A-proper mappings, K-set contractions, etc.
47H10	Fixed-point theorems [See also 34C29, 54H25, 55M20, 58C30.]
47H12	Spectral theory of nonlinear operators
47H15	Equations involving nonlinear operators [See also 58E07 for abstract bifurcation theory.]
47H17	Methods for solving equations involving nonlinear operators {For numerical analysis, see 65J15.}
47H20	Semigroups of nonlinear operators [See also 58D07.]
47H99	None of the above, but in this section
49–XX	**CALCULUS OF VARIATIONS AND OPTIMAL CONTROL; OPTIMIZATION [See also 34H05, 65Kxx, 90Cxx, 93–XX.]**
49–00	Handbooks, dictionaries, and other reference works
49–01	Elementary exposition; textbooks
49–02	Advanced exposition (research surveys, monographs, etc.)
49–03	Historical (must also be assigned at least one classification number from Section 01)
49–04	Explicit machine computation and programs (not the theory of computation or programming)
49–06	Proceedings, conferences, etc.
49Axx	**Existence theory for optimal solutions**
49A05	Free problems in one independent variable
49A10	Problems involving ordinary differential equations, optimal control
49A21	Free problems in two or more independent variables
49A22	Problems involving partial differential equations, optimal control
49A27	Problems in abstract spaces
49A29	Variational inequalities
49A34	Problems involving functional relations other than differential equations
49A36	Optimal solutions belonging to restricted classes (bang-bang controls, etc.)
49A40	Minimax problems

49A45	Game theory; pursuit and evasion [See also 90Dxx.]
49A50	Topology of solutions, weak and strong minima, semicontinuity, convexity, orientor fields
49A51	Fréchet and Gâteaux differentiability
49A52	Nonsmooth analysis [See also 58Cxx.]
49A55	Duality theory
49A60	Optimal stochastic control [See also 93Exx.]
49A99	None of the above, but in this section
49Bxx	**Necessary conditions and sufficient conditions for optimality**
49B05	Free problems in one independent variable
49B10	Problems involving ordinary differential equations, optimal control
49B21	Free problems in two or more independent variables
49B22	Problems involving partial differential equations, optimal control
49B27	Problems in abstract spaces
49B34	Problems involving functional relations other than differential equations
49B36	Optimal solutions belonging to restricted classes
49B40	Minimax problems
49B50	Sensitivity of optimal solutions in the presence of perturbations
49B60	Optimal stochastic control [See also 93Exx.]
49B99	None of the above, but in this section
49Cxx	**Carathéodory, Hamilton-Jacobi theories, including dynamic programming [See also 90C39.]**
49C05	Free problems and problems involving ordinary differential equations
49C10	Free problems and problems involving partial differential equations
49C15	Problems in abstract spaces or involving functional relations other than differential equations
49C20	Dynamic programming method
49C99	None of the above, but in this section
49Dxx	**Methods of successive approximations {For discrete problems, see 90Cxx; see also 65Kxx.}**
49D05	Methods based on necessary conditions
49D07	Gradient methods
49D10	Methods of steepest descent type
49D15	Methods of Newton-Raphson, Galerkin and Ritz types
49D20	Methods of relaxation type
49D25	Finite difference methods
49D27	Decomposition methods
49D29	Multiplier methods
49D30	Other methods, not based on necessary conditions (penalty function, etc.)
49D35	Methods of linear programming type
49D37	Nonlinear programming
49D39	Semi-infinite programming
49D40	Methods of quadratic programming type
49D45	Methods of convex programming type
49D49	Geometric programming
49D50	Periodic optimization
49D99	None of the above, but in this section
49Exx	**Controllability and geometry of control problems**
49E05	General dependence on controls
49E10	Orientor fields (contingency equations)
49E15	Attainable sets, controllability
49E20	Interrelations between stability problems and optimization problems
49E25	Effect of perturbations on controllability
49E30	Relations between controllability and optimal solutions
49E99	None of the above, but in this section
49Fxx	**Manifolds [See also 58Exx.]**
49F05	Exterior differential forms, invariant integrals (Cartan theory) [See mainly 58A15.]
49F10	Minimal surfaces [See mainly 53A10, also 58E12.]
49F15	Morse theory in Hilbert and other spaces [See also 57R27, 58Exx.]
49F20	Geometric measure and integration theory, integral and normal currents, flat chains and cochains, varifolds [See also 28A75, 32C30, 58A25, 58C35.]
49F22	Existence and structure of solutions to variational problems in geometric measure-theoretic setting
49F25	Surface area; Weierstrass and Burkill integrals, subadditive set functions
49F99	None of the above, but in this section
49Gxx	**Variational methods for eigenvalues [See also 47A70.]**
49G05	Variational approach to eigenvalues
49G10	Rayleigh-Ritz methods
49G15	Weinstein and Aronszajn methods, intermediate problems
49G20	Linear operators in Hilbert spaces
49G99	None of the above, but in this section
49H05	**Variational principles of physics [See also 70-XX, 81-XX.]**

51-XX	**GEOMETRY {For algebraic geometry, see 14-XX.}**
51-00	Handbooks, dictionaries, and other reference works
51-01	Elementary exposition; textbooks
51-02	Advanced exposition (research surveys, monographs, etc.)
51-03	Historical (must also be assigned at least one classification number from Section 01)
51-04	Explicit machine computation and programs (not the theory of computation or programming)
51-06	Proceedings, conferences, etc.
51Axx	**Linear incidence geometry**
51A05	General theory and projective geometries
51A10	Homomorphism, automorphism and dualities
51A15	Structures with parallelism
51A20	Configuration theorems
51A25	Algebraization [See also 12Kxx, 20N10.]
51A30	Desarguesian and Pappian geometries
51A35	Non-Desarguesian affine and projective planes
51A40	Translation planes and spreads
51A45	Incidence structures imbeddable into projective geometries
51A99	None of the above, but in this section
51Bxx	**Nonlinear incidence geometry**
51B05	General theory
51B10	Möbius geometries
51B15	Laguerre geometries
51B20	Minkowski geometries
51B25	Lie geometries
51B99	None of the above, but in this section
51C05	**Ring geometry (Hjelmslev, Barbilian, etc.)**
51Dxx	**Geometric closure systems**
51D05	Abstract (Maeda) geometries
51D10	Abstract geometries with exchange axiom
51D15	Abstract geometries with parallelism
51D20	Combinatorial geometries [See also 05B25.]
51D25	Lattices of subspaces [See also 05B35.]
51D30	Continuous geometries and related topics [See also 06Cxx.]
51D99	None of the above, but in this section
51Exx	**Finite geometry**
51E05	General block designs [See also 05B05.]
51E10	Steiner systems
51E15	Affine and projective planes
51E20	Combinatorial structures in finite projective spaces [See also 05Bxx.]
51E25	Finite nonlinear geometries
51E30	Other finite incidence structures [See also 05B30.]
51E99	None of the above, but in this section
51Fxx	**Metric geometry**
51F05	Absolute planes
51F10	Absolute spaces
51F15	Reflection groups, reflection geometries [See also 20H10, 20H15.]
51F20	Congruence and orthogonality [See also 20H05.]
51F25	Orthogonal and unitary groups [See also 20H05.]
51F99	None of the above, but in this section
51G05	**Ordered geometries (ordered incidence structures, etc.)**
51Hxx	**Topological geometry**
51H05	General theory
51H10	Topological linear incidence structures
51H15	Topological nonlinear incidence structures
51H20	Topological geometries on manifolds [See also 57-XX.]
51H25	Geometries with differentiable structure [See also 53Cxx, 53C70.]
51H30	Geometries with algebraic manifold structure [See also 14-XX.]
51H99	None of the above, but in this section
51Jxx	**Incidence groups**
51J05	General theory
51J10	Projective incidence groups
51J15	Kinematic spaces
51J20	Representation by near-fields and near-algebras [See also 12K05, 16A76.]
51J99	None of the above, but in this section
51Kxx	**Distance geometry**
51K05	General theory
51K10	Synthetic differential geometry
51K99	None of the above, but in this section
51Lxx	**Geometric order structures [See also 53C75.]**
51L05	Geometry of orders of nondifferentiable curves
51L10	Directly differentiable curves
51L15	*n*-vertex theorems via direct methods
51L20	Geometry of orders of surfaces
51L99	None of the above, but in this section
51Mxx	**Real and complex geometry**
51M05	Euclidean geometries
51M10	Hyperbolic and elliptic geometries
51M15	Geometric constructions

51M20	Polyhedra and polytopes; regular figures, division of spaces [See also 51F15.]
51M25	Length, area and volume [See also 26B15.]
51M30	Line geometries and their generalizations
51M35	Synthetic treatment of fundamental manifolds in projective geometries (Grassmannians, Veronesians and their generalizations) [See also 14M15.]
51M99	None of the above, but in this section
51Nxx	**Analytic and descriptive geometry**
51N05	Descriptive geometry
51N10	Affine analytic geometry
51N15	Projective analytic geometry
51N20	Euclidean analytic geometry
51N25	Analytic geometry with other transformation groups
51N30	Geometry of classical groups [See also 20Gxx, 14Lxx.]
51N35	Questions of classical algebraic geometry [See also 14Nxx.]
51N99	None of the above, but in this section
52–XX	**CONVEX SETS AND RELATED GEOMETRIC TOPICS**
52–00	Handbooks, dictionaries, and other reference works
52–01	Elementary exposition; textbooks
52–02	Advanced exposition (research surveys, monographs, etc.)
52–03	Historical (must also be assigned at least one classification number from Section 01)
52–04	Explicit machine computation and programs (not the theory of computation or programming)
52–06	Proceedings, conferences, etc.
52A01	Axiomatic and generalized convexity
52A05	Convex sets without dimension restrictions
52A07	Convex sets in topological vector spaces [See also 46A55.]
52A10	Convex sets in 2 dimensions
52A15	Convex sets in 3 dimensions
52A20	Convex sets in n dimensions
52A22	Random convex sets and integral geometry [See also 53C65, 60D05.]
52A25	Polyhedra and polytopes
52A30	Invariants of convex sets (star-shaped, (m, n)-convex, etc.)
52A35	Helly-type theorems
52A37	Other problems of combinatorial geometry
52A40	Inequalities and extremum problems
52A43	Lattices and convex bodies [See also 11H06.]
52A45	Packing, covering, tiling [See also 05B40, 05B45, 11H31, 51–XX.]
52A50	Hilbert geometry [See also 51Kxx.]
52A55	Spherical and hyperbolic convexity
52A99	Miscellaneous topics
53–XX	**DIFFERENTIAL GEOMETRY** {**For differential topology, see 57Rxx. For foundational questions of differentiable manifolds, see 58Axx.**}
53–00	Handbooks, dictionaries, and other reference works
53–01	Elementary exposition; textbooks
53–02	Advanced exposition (research surveys, monographs, etc.)
53–03	Historical (must also be assigned at least one classification number from Section 01)
53–04	Explicit machine computation and programs (not the theory of computation or programming)
53–06	Proceedings, conferences, etc.
53Axx	**Classical differential geometry**
53A04	Curves in Euclidean space
53A05	Surfaces in Euclidean space
53A07	Higher-dimension and -codimension surfaces in Euclidean n-space
53A10	Minimal surfaces, surfaces with prescribed mean curvature [See also 49F10, 53C42.]
53A15	Affine differential geometry
53A17	Kinematics
53A20	Projective differential geometry
53A25	Differential line geometry
53A30	Conformal differential geometry
53A35	Non-Euclidean differential geometry
53A40	Other special differential geometries
53A45	Vector and tensor analysis
53A50	Spinor analysis
53A55	Differential invariants (local theory), geometric objects
53A60	Geometry of webs [See also 14C21, 20N05.]
53A99	None of the above, but in this section
53Bxx	**Local differential geometry**
53B05	Linear and affine connections
53B10	Projective connections
53B15	Other connections
53B20	Local Riemannian geometry
53B21	Methods of Riemannian geometry
53B25	Local submanifolds [See also 53C40.]
53B30	Lorentz metrics, indefinite metrics
53B35	Hermitian and Kählerian structures [See also 32Cxx.]
53B40	Finsler spaces and generalizations (areal metrics)
53B50	Applications to physics
53B75	Geometric orders, order geometry [See also 51Lxx.]
53B99	None of the above, but in this section
53Cxx	**Global differential geometry [See also 51H25, 58–XX; for related bundle theory, see 55Rxx, 57Rxx.]**
53C05	Connections
53C10	G-structures
53C12	Foliations [See also 57R30, 57R32.]
53C15	Almost complex, contact, symplectic, almost product structures, etc.
53C20	Riemannian manifolds, including pinching [See also 31C12, 58B20.]
53C21	Methods of Riemannian geometry
53C22	Geodesics [See also 58E10.]
53C25	Special Riemannian manifolds (Einstein, Sasakian, etc.)
53C30	Homogeneous manifolds [See also 14M15, 14M17, 32M10, 57T15.]
53C35	Symmetric spaces [See also 32M15, 57T15.]
53C40	Submanifolds [See also 53B25.]
53C42	Immersions (minimal, prescribed curvature, tight, etc.) [See also 49F10, 53A10, 57R40, 57R42.]
53C45	Global surface theory (convex surfaces à la A. D. Aleksandrov)
53C50	Lorentz manifolds, manifolds with indefinite metrics
53C55	Hermitian and Kählerian manifolds [See also 32Cxx.]
53C57	Symplectic manifolds and structures in geometry and physics (use only for secondary classification)
53C60	Finsler spaces and generalizations (areal metrics) [See also 58B20.]
53C65	Integral geometry [See also 52A22, 60D05.]; differential forms, currents, etc. [See mainly 58Axx.]
53C70	Direct methods (G-spaces of Busemann, etc.)
53C75	Geometric orders, order geometry [See also 51Lxx.]
53C80	Applications to physics
53C99	None of the above, but in this section
54–XX	**GENERAL TOPOLOGY** {**For the topology of manifolds of all dimensions, see 57Nxx.**}
54–00	Handbooks, dictionaries, and other reference works
54–01	Elementary exposition; textbooks
54–02	Advanced exposition (research surveys, monographs, etc.)
54–03	Historical (must also be assigned at least one classification number from Section 01)
54–04	Explicit machine computation and programs (not the theory of computation or programming)
54–06	Proceedings, conferences, etc.
54Axx	**Generalities**
54A05	Topological spaces and generalizations (closure spaces, etc.)
54A10	Change of topology, comparison of topologies
54A15	Syntopogeneous structures
54A20	Convergence (general theory) and limits
54A25	Cardinality properties (discrete subsets, weight, etc.), ultrafilters, etc. [See also 03Exx, 04A30.]
54A35	Consistency and independence results [See also 03E35.]
54A40	Fuzzy topology [See also 03E72.]
54A99	None of the above, but in this section
54Bxx	**Basic constructions**
54B05	Subspaces
54B10	Product spaces
54B15	Quotient spaces, decompositions
54B17	Adjunction spaces and similar constructions
54B20	Hyperspaces
54B25	Sums, inverse limits
54B30	Categorical methods [See also 18B30.]
54B35	Spectra
54B40	Presheaves and sheaves [See also 18F20.]
54B99	None of the above, but in this section
54Cxx	**Maps and general types of spaces defined by maps**
54C05	Continuous maps
54C08	Connectivity maps, semicontinuous maps, etc.
54C10	Special maps: open, closed, perfect, almost open, light, etc.
54C15	Retraction
54C20	Extension
54C25	Imbedding
54C30	Real-valued functions [See also 26–XX.]
54C35	Function spaces [See also 58D15.]
54C40	$C(X)$; algebraic techniques (ideals, etc.) [See also 46J10.]
54C45	C- and C^*-imbedding
54C50	Zero sets, Baire sets and functions [See also 26A21.]
54C55	Absolute neighborhood extensor, absolute extensor, absolute neighborhood retract (ANR), absolute retract spaces (general properties) [See also 54F40, 55M15.]
54C56	Shape theory [See mainly 55P55, 57N25.]
54C60	Set-valued maps [See also 26E25, 28B20.]
54C65	Selections [See also 28B20.]
54C70	Entropy
54C99	None of the above, but in this section

54Dxx	**Fairly general properties**
54D05	Connected and locally connected spaces (general aspects)
54D10	Separation axioms, T_0–T_3
54D15	Higher separation axioms (completely regular, normal, perfectly or collectionwise normal, etc.)
54D18	Paracompactness, pointwise paracompactness, etc.
54D20	Covering properties: Lindelöf, (m, n)-compact, etc.
54D25	"P-minimal" and "P-closed" spaces
54D30	Compact spaces and generalizations
54D35	Compactifications, etc.
54D40	Remainders
54D45	Local compactness, σ-compactness
54D50	k-spaces
54D55	Sequential spaces
54D60	Realcompactness and realcompactification
54D99	None of the above, but in this section
54Exx	**Spaces with richer structures**
54E05	Proximity structures and generalizations
54E10	p-maps
54E15	Uniform structures and generalizations
54E17	Nearness spaces
54E18	p-spaces, M-spaces, σ-spaces, etc.
54E20	Stratifiable spaces, cosmic spaces, etc.
54E25	Semimetric spaces
54E30	Moore spaces
54E35	Metric spaces, metrizability
54E40	Isometries, contractions, expansions
54E45	Compact (locally compact) metric spaces
54E50	Complete metric spaces
54E52	Completions, Baire category
54E55	Bitopologies
54E60	CW-complexes, triangulable spaces
54E65	Countability conditions, separability
54E99	None of the above, but in this section
54Fxx	**Special properties**
54F05	Ordered topological spaces, partially ordered spaces [See also 06B30, 06F30.]
54F15	Continua and generalizations
54F20	Special types of continua
54F25	Peano spaces and generalizations
54F30	Cyclic elements
54F35	Higher dimensional local connectedness [See also 55Mxx, 55Nxx.]
54F40	Compact (locally compact) absolute neighborhood retracts
54F43	Shape theory [See mainly 55P55, 57N25.]
54F45	Dimension theory [See also 55M10.]
54F50	Spaces of dimension ≤ 1; curves, dendrites [See also 26A03.]
54F55	Unicoherence, multicoherence
54F60	Maps into S_n
54F62	Periodic maps
54F65	Topological characterizations of particular spaces
54F99	None of the above, but in this section
54Gxx	**Peculiar spaces**
54G05	Extremally disconnected spaces, F-spaces, etc.
54G10	P-spaces
54G15	Pathological spaces
54G20	Counterexamples
54G99	None of the above, but in this section
54Hxx	**Connections with other structures, applications**
54H05	Descriptive set theory (topological aspects of Borel, analytic, projective, etc. sets) [See also 03E15, 04A15, 26A21, 28A05.]
54H10	Topological representations of algebraic systems [See also 22–XX.]
54H12	Topological lattices, etc. [See also 06B30, 06F30.]
54H13	Topological fields, rings, etc. {For algebraic aspects, see 12Jxx, 13Jxx, 16A80.}
54H15	Transformation groups and semigroups [See also 20M20, 22–XX, 57Sxx.]
54H20	Topological dynamics [See also 28Dxx, 34C35, 58Fxx.]
54H25	Fixed-point and coincidence theorems [See also 47H10, 55M20.]
54H99	None of the above, but in this section
54J05	**Nonstandard topology [See also 03Hxx.]**
55–XX	ALGEBRAIC TOPOLOGY
55–00	Handbooks, dictionaries, and other reference works
55–01	Elementary exposition; textbooks
55–02	Advanced exposition (research surveys, monographs, etc.)
55–03	Historical (must also be assigned at least one classification number from Section 01)
55–04	Explicit machine computation and programs (not the theory of computation or programming)
55–06	Proceedings, conferences, etc.
55Mxx	**Classical topics {For the topology of Euclidean spaces and manifolds, see 57N05, 57N10, 57N15.}**
55M05	Duality
55M10	Dimension theory [See also 54F45.]
55M15	Absolute neighborhood retracts [See also 54C55, 54F40.]
55M20	Fixed points and coincidences [See also 54H25.]
55M25	Degree, winding number
55M30	Ljusternik-Schnirelman (Lyusternik-Shnirel′man) category of a space
55M35	Finite groups of transformations (including Smith theory) [See also 57S17.]
55M99	None of the above, but in this section
55Nxx	**Homology and cohomology theories [See also 57Txx.]**
55N05	Čech types
55N07	Steenrod-Sitnikov homologies
55N10	Singular theory
55N15	K-theory [See also 19Lxx.] {For algebraic K-theory, see 18F25, 19–XX.}
55N20	Generalized (extraordinary) homology and cohomology theories
55N22	Bordism and cobordism theories, formal group laws [See also 14L05, 19L41, 57R75, 57R77, 57R85, 57R90.]
55N25	Homology with local coefficients, equivariant cohomology
55N30	Sheaf cohomology [See also 18F20, 32C35, 32L10.]
55N35	Other homology theories
55N40	Axioms for homology theory and uniqueness theorems
55N45	Products and intersections
55N91	Equivariant homology and cohomology
55N99	None of the above, but in this section
55Pxx	**Homotopy theory {For simple homotopy type, see 57Q10.}**
55P05	Homotopy extension properties, cofibrations
55P10	Homotopy equivalences
55P15	Classification of homotopy type
55P20	Eilenberg-Mac Lane spaces
55P25	Spanier-Whitehead duality
55P30	Eckmann-Hilton duality
55P35	Loop spaces
55P40	Suspensions
55P42	Stable homotopy theory, spectra
55P45	H-spaces and duals
55P47	Infinite loop spaces
55P50	Category and cocategory, etc.
55P55	Shape theory [See also 54C56, 54F43, 55Q07.]
55P60	Localization and completion
55P62	Rational homotopy theory
55P65	Homotopy functors
55P91	Equivariant homotopy theory
55P99	None of the above, but in this section
55Qxx	**Homotopy groups**
55Q05	Homotopy groups, general; sets of homotopy classes
55Q07	Shape groups
55Q10	Stable homotopy groups
55Q15	Whitehead products and generalizations
55Q20	Homotopy groups of wedges, joins, and simple spaces
55Q25	Hopf invariants
55Q30	Homotopy groups of triads, n-ads
55Q35	Operations in homotopy groups
55Q40	Homotopy groups of spheres
55Q45	Stable homotopy
55Q50	The J-morphism [See also 19L20.]
55Q52	Homotopy groups of special spaces
55Q55	Cohomotopy groups
55Q70	Homotopy groups of special types [See also 55N05, 55N07.]
55Q91	Equivariant homotopy groups
55Q99	None of the above, but in this section
55Rxx	**Fiber spaces and bundles [See also 18F15, 32Lxx, 46M20, 57R20, 57R22, 57R25.]**
55R05	Fiber spaces
55R10	Fiber bundles
55R12	Transfer
55R15	Classification
55R20	Spectral sequences and homology of fiber spaces [See also 55Txx.]
55R25	Sphere bundles and vector space bundles
55R35	Classifying spaces of groups and H-spaces
55R40	Homology of classifying spaces, characteristic classes [See also 57Txx, 57R20.]
55R45	Homology and homotopy of BO and BU; Bott periodicity [See also 19L99.]
55R50	Stable classes of vector space bundles, K-theory [See also 19L99.] {For algebraic K-theory, see 18F25, 19–XX.}
55R55	Fiberings with singularities
55R60	Microbundles and block bundles [See also 57N55, 57Q50.]
55R65	Generalizations of fiber spaces and bundles
55R91	Equivariant fiber spaces and bundles

55R99	None of the above, but in this section
55Sxx	**Operations and obstructions**
55S05	Primary cohomology operations
55S10	Steenrod algebra
55S12	Dyer-Lashof operations
55S15	Symmetric products, cyclic products
55S20	Secondary and higher cohomology operations
55S25	K-theory operations and generalized cohomology operations [See also 19D99, 19L99.]
55S30	Massey products
55S35	Obstruction theory
55S36	Extension and compression of mappings
55S37	Classification of mappings
55S40	Sectioning fiber spaces and bundles
55S45	Postnikov systems, k-invariants
55S91	Equivariant operations and obstructions
55S99	None of the above, but in this section
55Txx	**Spectral sequences [See also 18G40, 55R20.]**
55T05	General
55T10	Serre spectral sequences
55T15	Adams spectral sequences
55T20	Eilenberg-Moore spectral sequences [See also 57T35.]
55T25	Generalized cohomology
55T99	None of the above, but in this section
55Uxx	**Applied homological algebra and category theory [See also 18Gxx.]**
55U05	Abstract complexes
55U10	Semisimplicial complexes
55U15	Chain complexes
55U20	Universal coefficient theorems, Bockstein operator
55U25	Homology of a product, Künneth formula
55U30	Duality
55U35	Abstract homotopy theory
55U40	Topological categories
55U99	None of the above, but in this section
57-XX	**MANIFOLDS AND CELL COMPLEXES {For complex manifolds, see 32C10.}**
57-00	Handbooks, dictionaries, and other reference works
57-01	Elementary exposition; textbooks
57-02	Advanced exposition (research surveys, monographs, etc.)
57-03	Historical (must also be assigned at least one classification number from Section 01)
57-04	Explicit machine computation and programs (not the theory of computation or programming)
57-06	Proceedings, conferences, etc.
57Mxx	**Low-dimensional topology (old 55Axx)**
57M05	Fundamental group, presentations, free differential calculus
57M10	Covering spaces
57M12	Special coverings, e.g. branched
57M15	Relations with graph theory [See also 05Cxx.]
57M20	Two-dimensional complexes
57M25	Knots and links in S^3 {For higher dimensions, see 57Q45.}
57M30	Wild knots and surfaces, etc., wild imbeddings
57M35	Dehn's lemma, sphere theorem, loop theorem, asphericity
57M40	Characterizations of E^3 and S^3 (Poincaré conjecture) [See also 57N12.]
57M99	None of the above, but in this section
57Nxx	**Topological manifolds**
57N05	Topology of E^2, 2-manifolds
57N10	Topology of general 3-manifolds [See also 57Mxx.]
57N12	Topology of E^3 and S^3 [See also 57M40.]
57N13	Topology of E^4, 4-manifolds [See also 14Jxx, 32Jxx.]
57N15	Topology of E^n, n-manifolds $(4 < n < \infty)$
57N17	Topology of topological vector spaces
57N20	Topology of infinite-dimensional manifolds [See also 58Bxx.]
57N25	Shapes [See also 54C56, 54F43, 55P55, 55Q07.]
57N30	Engulfing
57N35	Imbeddings and immersions
57N37	Isotopy and pseudo-isotopy
57N40	Neighborhoods of submanifolds
57N45	Flatness and tameness
57N50	$S^{n-1} \subset E^n$, Schoenflies problem
57N55	Microbundles and block bundles [See also 55R60, 57Q50.]
57N60	Cellularity
57N65	Algebraic topology of manifolds
57N70	Cobordism and concordance
57N75	General position and transversality
57N80	Stratifications
57N99	None of the above, but in this section
57Pxx	**Generalized manifolds [See also 18F15.]**
57P05	Local properties
57P10	Poincaré duality spaces
57P99	None of the above, but in this section
57Qxx	**PL-topology**
57Q05	The general topology of complexes
57Q10	Simple homotopy type, Whitehead torsion, Reidemeister-Franz torsion, etc. [See also 19B28.]
57Q12	Wall finiteness obstruction for CW-complexes
57Q15	Triangulating manifolds
57Q20	Cobordism
57Q25	Comparison of PL-structures: classification, Hauptvermutung
57Q30	Engulfing
57Q35	Imbeddings and immersions
57Q37	Isotopy
57Q40	Regular neighborhoods
57Q45	Knots and links (in high dimensions) {For the low-dimensional case, see 57M25.}
57Q50	Microbundles and block bundles [See also 55R60, 57N55.]
57Q55	Approximations
57Q60	Cobordism and concordance
57Q65	General position and transversality
57Q91	Equivariant PL-topology
57Q99	None of the above, but in this section
57Rxx	**Differential topology {For foundational questions of differentiable manifolds, see 58Axx; for infinite-dimensional manifolds, see 58Bxx.}**
57R05	Triangulating
57R10	Smoothing
57R12	Smooth approximations
57R15	Specialized structures on manifolds (spin manifolds, frame manifolds, etc.)
57R19	Algebraic topology of manifolds
57R20	Characteristic classes and numbers
57R22	Topology of vector bundles and fiber bundles [See also 55Rxx.]
57R25	Vector fields, frame fields, etc.
57R27	Controllability of vector fields on C^∞ and real-analytic manifolds [See also 49E15, 49F15.]
57R30	Foliations; geometric theory
57R32	Classifying spaces for foliations; Gel′fand-Fuks cohomology
57R35	Differentiable mappings
57R40	Imbeddings
57R42	Immersions
57R45	Singularities of differentiable mappings
57R50	Diffeomorphisms
57R52	Isotopy
57R55	Differentiable structures
57R60	Homotopy spheres, Poincaré conjecture
57R65	Surgery and handlebodies
57R67	Surgery obstructions, Wall groups [See also 18F25, 19G24.]
57R70	Critical points and critical submanifolds
57R75	O- and SO-cobordism
57R77	Complex cobordism (U- and SU-cobordism) [See also 55N22.]
57R80	h- and s-cobordism
57R85	Equivariant cobordism
57R90	Other types of cobordism [See 55N22.]
57R91	Equivariant algebraic topology of manifolds
57R95	Realizing cycles by submanifolds
57R99	None of the above, but in this section
57Sxx	**Topological transformation groups [See also 20F34, 22-XX, 54H15, 58D05.]**
57S05	Topological properties of groups of homeomorphisms
57S10	Compact groups of homeomorphisms
57S15	Compact Lie groups of differentiable transformations
57S17	Finite transformation groups
57S20	Noncompact Lie groups of transformations
57S25	Groups acting on specific manifolds
57S30	Discontinuous groups of transformations
57S99	None of the above, but in this section
57Txx	**Homology and homotopy of topological groups and related structures**
57T05	Hopf algebras [See also 16A24.]
57T10	Homology and cohomology of Lie groups
57T15	Homology and cohomology of homogeneous spaces of Lie groups
57T20	Homotopy groups of topological groups and homogeneous spaces
57T25	Homology and cohomology of H-spaces
57T30	Bar and cobar constructions [See also 18G55, 55Uxx.]
57T35	Applications of Eilenberg-Moore spectral sequences [See also 55R20, 55T20.]
57T99	None of the above, but in this section
58-XX	**GLOBAL ANALYSIS, ANALYSIS ON MANIFOLDS [See also 32Cxx, 32Fxx, 46-XX, 47Hxx, 53Cxx; for geometric integration theory, see 49F20, 49F22.]**
58-00	Handbooks, dictionaries, and other reference works
58-01	Elementary exposition; textbooks
58-02	Advanced exposition (research surveys, monographs, etc.)

58-03	Historical (must also be assigned at least one classification number from Section 01)
58-04	Explicit machine computation and programs (not the theory of computation or programming)
58-06	Proceedings, conferences, etc.
58Axx	**General theory of differentiable manifolds**
58A05	Differentiable manifolds, foundations
58A07	Real-analytic and Nash manifolds [See also 32C05.]
58A10	Differential forms
58A12	de Rham theory [See also 14Fxx.]
58A14	Hodge theory [See also 14C30, 14Fxx, 32Cxx.]
58A15	Exterior differential systems (Cartan theory)
58A17	Pfaffian systems
58A20	Jets
58A25	Currents
58A30	Vector distributions (subbundles of the tangent bundles)
58A35	Stratified sets [See also 32Bxx, 58Cxx.]
58A40	Differential spaces
58A50	Supermanifolds and graded manifolds
58A99	None of the above, but in this section
58Bxx	**Infinite-dimensional manifolds**
58B05	Homotopy and topological questions
58B10	Differentiability questions
58B12	Questions of holomorphy [See also 32–XX, 46G20.]
58B15	Fredholm structures [See also 47A53.]
58B20	Riemannian, Finsler and other geometric structures [See also 53C20, 53C60.]
58B25	Group structures and generalizations on infinite-dimensional manifolds [See also 22E65, 58D05.]
58B99	None of the above, but in this section
58Cxx	**Calculus on manifolds; nonlinear operators [See also 47Hxx.]**
58C05	Real-valued functions
58C06	Set valued and function-space valued mappings
58C07	Continuity properties of mappings
58C10	Holomorphic maps [See also 32–XX.]
58C15	Implicit function theorems; global Newton methods
58C20	Differentiation theory (Gâteaux, Fréchet, etc.) [See also 26Exx, 46Gxx.]
58C25	Differentiable maps
58C27	Singularities of differentiable maps [See also 14B05, 14E15, 32Bxx, 32C40, 32C45.]
58C28	Catastrophes [See also 57R70, 58Exx.]
58C30	Fixed point theorems [See also 47H10.]
58C35	Integration on manifolds; measures on manifolds [See also 28Cxx.]
58C40	Spectral theory; eigenvalue problems [See also 58E07.]
58C50	Analysis on supermanifolds or graded manifolds
58C99	None of the above, but in this section
58Dxx	**Spaces and manifolds of mappings (including nonlinear versions of 46Exx)**
58D05	Groups of diffeomorphisms and homeomorphisms as manifolds [See also 22E65, 57Q05.]
58D07	Groups and semigroups of nonlinear operators [See also 17B65, 47Dxx, 47H20.]
58D10	Spaces of imbeddings and immersions
58D15	Manifolds of mappings [See also 54C35.]
58D17	Manifolds of metrics (esp. Riemannian)
58D20	Measures (Gaussian, cylindrical, etc.) on manifolds of maps [See 28Cxx.]
58D25	Equations in function spaces; evolution equations [See also 34Gxx, 35K22, 35R15.]
58D30	Applications (in quantum mechanics (Feynman path integrals), relativity, fluid dynamics, etc.)
58D99	None of the above, but in this section
58Exx	**Variational problems in infinite-dimensional spaces**
58E05	Abstract critical point theory (Morse theory, Ljusternik-Schnirelman (Lyusternik-Shnirel′man) theory, etc.)
58E07	Abstract bifurcation theory
58E10	Applications to the theory of geodesics (problems in one independent variable)
58E11	Critical metrics
58E12	Applications to minimal surfaces (problems in two independent variables)
58E15	Application to extremal problems in several variables
58E17	Pareto optimality, etc., applications to economics
58E20	Harmonic maps
58E25	Applications to control theory (optimal and nonoptimal)
58E30	Variational principles
58E35	Variational inequalities (global problems)
58E99	None of the above, but in this section
58Fxx	**Ordinary differential equations on manifolds; dynamical systems {For abstract and topological dynamics, see also 28D10, 34C35, 34C40, 54H20.}**
58F05	Hamiltonian and Lagrangian systems; symplectic geometry [See also 70Hxx.]
58F06	Geometric quantization (applications of representation theory)
58F07	Completely integrable systems (including systems with an infinite number of degrees of freedom)
58F08	Point-mapping properties, iterations, completeness [See also 26A18.]
58F09	Morse-Smale systems
58F10	Stability theory
58F11	Ergodic theory; invariant measures [See also 28Dxx.]
58F12	Structure of attractors (and repellors)
58F13	Strange attractors; chaos and other pathologies
58F14	Bifurcation theory and singularities
58F15	Hyperbolic structures (expanding maps, Anosov systems, etc.)
58F17	Geodesic and horocycle flows
58F18	Relations with foliations
58F19	Eigenvalue and spectral problems
58F20	Periodic points and zeta functions
58F21	Limit cycles, etc.
58F22	Periodic solutions
58F25	Flows
58F27	Quasiperiodic flows
58F30	Perturbations
58F32	Functional-differential equations on manifolds
58F35	Invariance properties
58F37	Correspondences and other transformation methods (e.g. Lie-Bäcklund)
58F40	Applications
58F99	None of the above, but in this section
58Gxx	**Partial differential equations on manifolds; differential operators [See also 35–XX.]**
58G05	Differential complexes [See also 35Nxx.]; elliptic complexes
58G07	Relations with hyperfunctions
58G10	Index theory and fixed point theorems [See also 19K56, 46L80, 47Hxx.]
58G11	Heat and other parabolic equation methods
58G12	Exotic index theories [See also 19K56, 46L05, 46L10, 46L80, 46M20.]
58G15	Pseudodifferential and Fourier integral operators on manifolds
58G16	Hyperbolic equations
58G17	Propagation of singularities; initial value problems
58G20	Boundary value problems
58G25	Spectral problems; spectral geometry; scattering theory
58G30	Relations with special manifold structures (Riemannian, Finsler, etc.)
58G32	Diffusion processes and stochastic analysis on manifolds
58G35	Invariance properties
58G37	Correspondences and other transformation methods (e.g. Lie-Bäcklund)
58G40	Applications
58G99	None of the above, but in this section
58Hxx	**Pseudogroups and general structures on manifolds**
58H05	Pseudogroups [See also 22E65.]
58H10	Cohomology of classifying spaces for pseudogroup structures (Spencer, Gel′fand-Fuks, etc.)
58H15	Deformations of structures [See also 32Gxx, 58G05.]
58H99	None of the above, but in this section
60–XX	**PROBABILITY THEORY AND STOCHASTIC PROCESSES {For additional applications, see 11Kxx, 62–XX, 90–XX, 92–XX, 93–XX, 94–XX. For numerical results, see 65U05.}**
60–00	Handbooks, dictionaries, and other reference works
60–01	Elementary exposition; textbooks
60–02	Advanced exposition (research surveys, monographs, etc.)
60–03	Historical (must also be assigned at least one classification number from Section 01)
60–04	Explicit machine computation and programs (not the theory of computation or programming)
60–06	Proceedings, conferences, etc.
60Axx	**Foundations of probability theory**
60A05	Axioms; other general questions
60A10	Probabilistic measure theory {For ergodic theory, see 28Dxx and 60Fxx.}
60A99	None of the above, but in this section
60Bxx	**Probability theory on algebraic and topological structures**
60B05	Probability measures on topological spaces
60B10	Convergence of probability measures
60B11	Probability theory on linear topological spaces [See also 28C20.]
60B12	Limit theorems for vector-valued random variables (infinite-dimensional case)
60B15	Probability measures on groups, Fourier transforms, factorization
60B99	None of the above, but in this section

60C05	**Combinatorial probability**
60D05	**Geometric probability, stochastic geometry, random sets [See also 52A22, 53C65.]**
60Exx	**Distribution theory [See also 62Exx, 62Hxx.]**
60E05	Distributions: general theory
60E07	Infinitely divisible distributions; stable distributions
60E10	Characteristic functions; other transforms
60E15	Inequalities (Chebyshev, Kolmogorov, etc.)
60E99	None of the above, but in this section
60Fxx	**Limit theorems [See also 28Dxx, 60B12.]**
60F05	Central limit and other weak theorems
60F10	Large deviations
60F15	Strong theorems
60F17	Functional limit theorems; invariance theorems
60F20	Zero-one laws
60F25	L^p-limit theorems
60F99	None of the above, but in this section
60Gxx	**Stochastic processes**
60G05	Foundations of stochastic processes
60G07	General theory of processes
60G09	Exchangeability
60G10	Stationary processes
60G12	General second-order processes
60G15	Gaussian processes
60G17	Sample path properties
60G20	Generalized stochastic processes
60G25	Prediction theory [See also 62M20.]
60G30	Continuity and singularity of induced measures
60G35	Applications (signal detection, filtering, etc.) [See also 62M20, 94Axx.]
60G40	Stopping times; optimal stopping problems; gambling theory [See also 62L15.]
60G42	Martingales with discrete parameter
60G44	Martingales with continuous parameter
60G46	Martingales and classical analysis
60G48	Generalizations of martingales
60G50	Sums of independent random variables
60G55	Point processes
60G57	Random measures
60G60	Random fields
60G99	None of the above, but in this section
60Hxx	**Stochastic analysis [See also 58G32.]**
60H05	Stochastic integrals
60H07	Stochastic calculus of variations
60H10	Stochastic ordinary differential equations [See also 34F05.]
60H15	Stochastic partial differential equations [See also 35R60.]
60H20	Stochastic integral equations
60H25	Random operators and equations
60H99	None of the above, but in this section
60Jxx	**Markov processes**
60J05	Markov processes with discrete parameter
60J10	Markov chains with discrete parameter
60J15	Random walk
60J20	Applications of discrete Markov processes (social mobility, learning theory, industrial processes, etc.)
60J25	Markov processes with continuous parameter
60J27	Markov chains with continuous parameter
60J30	Processes with independent increments
60J35	Transition functions, generators and resolvents [See also 47D05, 47D07.]
60J40	Hunt processes
60J45	Probabilistic potential theory [See also 31–XX.]
60J50	Boundary theory
60J55	Local time and additive functionals
60J57	Multiplicative functionals
60J60	Diffusion processes [See also 58G32.]
60J65	Brownian motion [See also 58G32.]
60J70	Applications of diffusion theory (population genetics, absorption problems, etc.)
60J75	Jump processes
60J80	Branching processes (Galton-Watson, birth-and-death, etc.)
60J85	Applications of branching processes [See also 60K30, 92A10, 92A15.]
60J99	None of the above, but in this section
60Kxx	**Special processes**
60K05	Renewal theory
60K10	Applications (reliability, demand theory, etc.)
60K15	Markov renewal processes, semi-Markov processes
60K20	Applications of Markov renewal processes (reliability, queueing networks, etc.) [See also 90B22, 90B25.]
60K25	Queueing theory [See also 68M20, 90B22.]
60K30	Applications (congestion, allocation, storage, traffic, etc.) [See also 60J80.]
60K35	Interacting random processes; statistical mechanics type models; percolation theory
60K99	None of the above, but in this section
62–XX	**STATISTICS {For numerical methods, see 65U05.}**
62–00	Handbooks, dictionaries, and other reference works
62–01	Elementary exposition; textbooks
62–02	Advanced exposition (research surveys, monographs, etc.)
62–03	Historical (must also be assigned at least one classification number from Section 01)
62–04	Explicit machine computation and programs (not the theory of computation or programming)
62–06	Proceedings, conferences, etc.
62–07	Data analysis
62Axx	**Foundations**
62A05	Invariance and group considerations
62A10	The likelihood approach
62A15	The Bayesian approach
62A20	The classical approach
62A25	The structural approach
62A30	The fiducial approach
62A99	None of the above, but in this section
62Bxx	**Sufficiency**
62B05	Sufficient statistics and fields
62B10	Statistical information theory
62B15	Comparison of experiments
62B20	Measure-theoretic results, etc.
62B99	None of the above, but in this section
62Cxx	**Decision theory [See also 90A05; for game theory, see 90Dxx.]**
62C05	General considerations
62C07	Complete class results
62C10	Bayesian problems; characterization of Bayes procedures
62C12	Empirical decision procedures
62C15	Admissibility
62C20	Minimax procedures
62C25	Compound decision problems
62C99	None of the above, but in this section
62D05	**Sampling theory, sample surveys**
62Exx	**Distribution theory [See also 60Exx.]**
62E10	Characterization and structure theory
62E15	Exact distribution theory
62E20	Asymptotic distribution theory
62E25	Monte Carlo studies
62E30	Formal computational methods (polykays, etc.)
62E99	None of the above, but in this section
62Fxx	**Parametric inference**
62F03	Hypothesis testing
62F04	Small sample properties of tests
62F05	Asymptotic properties of tests
62F07	Ranking and selection
62F10	Point estimation
62F11	Small sample properties of estimators
62F12	Asymptotic properties of estimators
62F15	Bayesian inference
62F25	Tolerance and confidence regions
62F35	Robustness and adaptive procedures
62F99	None of the above, but in this section
62Gxx	**Nonparametric inference**
62G05	Estimation
62G10	Hypothesis testing
62G15	Tolerance and confidence regions
62G20	Asymptotic efficiency
62G25	Quick and easy methods
62G30	Order statistics; empirical distribution functions
62G99	None of the above, but in this section
62Hxx	**Multivariate analysis [See also 60Exx.]**
62H05	Characterization and structure theory
62H10	Distribution of statistics
62H12	Estimation
62H15	Hypothesis testing
62H17	Contingency
62H20	Measures of association (correlation, canonical correlation, etc.)
62H25	Factor analysis and principal components
62H30	Classification and discrimination; cluster analysis [See also 68T10.]
62H99	None of the above, but in this section
62Jxx	**Regression and correlation**
62J02	General nonlinear regression
62J05	Linear regression
62J07	Ridge regression; James-Stein estimators
62J10	Analysis of variance and covariance
62J15	Paired and multiple comparisons
62J99	None of the above, but in this section

62Kxx	**Experimental design [See also 05Bxx.]**
62K05	Optimal designs
62K10	Block designs
62K15	Factorial designs
62K99	None of the above, but in this section
62Lxx	**Sequential methods**
62L05	Sequential design
62L10	Sequential analysis
62L12	Sequential estimation
62L15	Optimal stopping [See also 60G40.]
62L20	Stochastic approximation
62L99	None of the above, but in this section
62Mxx	**Inference from stochastic processes**
62M02	Markov processes: hypothesis testing
62M05	Markov processes: estimation
62M07	Non-Markovian processes: hypothesis testing
62M09	Non-Markovian processes: estimation
62M10	Time series, auto-correlation, regression, etc. [See also 90A20.]
62M15	Spectral analysis of time series
62M20	Prediction [See also 60G25.]; filtering [See also 60G35, 93E10, 93E11.]
62M30	Spatial models (use only for secondary classification)
62M99	None of the above, but in this section
62Nxx	**Engineering statistics**
62N05	Reliability and life testing [See also 90B25.]
62N10	Quality control [See also 90Bxx.]
62N99	None of the above, but in this section
62Pxx	**Applications [See also 82–XX, 90–XX, 92–XX.]**
62P05	Actuarial mathematics
62P10	Biometrics
62P15	Psychometrics
62P20	Econometrics [See also 90Axx.]
62P25	Sociometrics
62P99	None of the above, but in this section
62Q05	**Statistical tables**
5–XX	NUMERICAL ANALYSIS
65–00	Handbooks, dictionaries, and other reference works
65–01	Elementary exposition; textbooks
65–02	Advanced exposition (research surveys, monographs, etc.)
65–03	Historical (must also be assigned at least one classification number from Section 01)
65–04	Explicit machine computation and programs (not the theory of computation or programming)
65–06	Proceedings, conferences, etc.
65A05	**Tables**
65Bxx	**Acceleration of convergence**
65B05	Extrapolation to the limit, deferred corrections
65B10	Summation of series
65B15	Euler-Maclaurin formula
65B20	Poisson formula, etc.
65B99	None of the above, but in this section
65Cxx	**Numerical simulation {For theoretical aspects, see 68U20.}**
65C05	Monte Carlo methods
65C10	Random number generation
65C20	Models, numerical methods
65C99	None of the above, but in this section
65Dxx	**Numerical approximation {Primarily algorithms; for theory, see 41–XX.}**
65D05	Interpolation
65D07	Splines
65D10	Smoothing, curve fitting
65D15	Algorithms for functional approximation
65D20	Computation of special functions, construction of tables
65D25	Numerical differentiation
65D30	Numerical integration
65D32	Quadrature and cubature formulas
65D99	None of the above, but in this section
65E05	**Numerical methods in complex analysis (potential theory, etc.) {For numerical methods in conformal mapping, see 30C30.}**
65Fxx	**Numerical linear algebra**
65F05	Direct methods for linear systems and matrix inversion
65F10	Iterative methods for linear systems [See also 65N20.]
65F15	Eigenvalues, eigenvectors
65F20	Overdetermined systems, pseudoinverses
65F25	Orthogonalization
65F30	Other matrix algorithms
65F35	Matrix norms, conditioning, scaling [See also 15A12, 15A60.]
65F40	Determinants
65F50	Sparse matrices
65F99	None of the above, but in this section
65Gxx	**Error analysis**
65G05	Roundoff error
65G10	Interval and finite arithmetic
65G99	None of the above, but in this section
65Hxx	**Nonlinear algebraic or transcendental equations**
65H05	Single equations
65H10	Systems of equations
65H15	Eigenvalues, eigenvectors
65H99	None of the above, but in this section
65Jxx	**Numerical analysis in abstract spaces**
65J05	General
65J10	Equations with linear operators (do not use 65Fxx)
65J15	Equations with nonlinear operators (do not use 65Hxx)
65J99	None of the above, but in this section
65Kxx	**Mathematical programming, optimization and variational techniques [See also 49Dxx, 90Cxx, 93–XX.]**
65K05	Mathematical programming
65K10	Optimization and variational techniques
65K99	None of the above, but in this section
65Lxx	**Ordinary differential equations**
65L05	Initial value problems
65L07	Numerical investigation of stability of solutions
65L10	Boundary value problems
65L15	Eigenvalue problems
65L20	Stability of numerical methods
65L50	Mesh generation and refinement
65L60	Finite elements, Rayleigh-Ritz and Galerkin methods, finite methods
65L99	None of the above, but in this section
65Mxx	**Partial differential equations, initial value problems**
65M05	Derivation of finite difference approximations
65M10	Stability and convergence of difference methods
65M15	Error bounds
65M20	Method of lines
65M25	Method of characteristics
65M30	Improperly posed problems
65M50	Mesh generation and refinement
65M60	Finite elements, Rayleigh-Ritz and Galerkin methods, finite methods
65M99	None of the above, but in this section
65Nxx	**Partial differential equations, boundary value problems**
65N05	Derivation of finite difference approximations
65N10	Stability and convergence of difference methods
65N15	Error bounds
65N20	Solution of difference equations [See also 65F10.]
65N25	Eigenvalue problems
65N30	Finite elements, Rayleigh-Ritz and Galerkin methods, finite methods
65N35	Collocation and related methods
65N40	Methods of lines
65N45	Method of contraction of the boundary
65N50	Mesh generation and refinement
65N99	None of the above, but in this section
65P05	**Partial differential equations, miscellaneous problems**
65Q05	**Difference and functional equations, recurrence relations**
65Rxx	**Integral equations, integral transforms [See also 45Lxx.]**
65R10	Integral transforms
65R20	Integral equations
65R99	None of the above, but in this section
65S05	**Graphical methods**
65T05	**Harmonic analysis and synthesis**
65U05	**Numerical methods in probability and statistics**
65V05	**Automated algorithms [See also 68Q20.]**
65W05	**Parallel computation**
68–XX	COMPUTER SCIENCE **{For papers involving machine computations and programs in a specific mathematical area, see section –04 in that area.}**
68–00	Handbooks, dictionaries, and other reference works
68–01	Elementary exposition; textbooks
68–02	Advanced exposition (research surveys, monographs, etc.)
68–03	Historical (must also be assigned at least one classification number from Section 01)
68–04	Explicit machine computation and programs (not the theory of computation or programming)
68–06	Proceedings, conferences, etc.
68Mxx	**Computers and computer systems**
68M05	General
68M10	Computer networks
68M15	Reliability and testing
68M20	Performance evaluation; queueing theory models [See also 60K25.]
68M99	None of the above, but in this section

68Nxx	**Software**
68N05	General theory of programming
68N15	Programming languages
68N20	Compilers and generators
68N25	Monitors and operating systems
68N99	None of the above, but in this section
68Pxx	**Theory of data**
68P05	Data structures
68P10	Searching and sorting
68P15	Database theory
68P20	Information retrieval
68P25	Data encryption
68P99	None of the above, but in this section
68Qxx	**Theory of computing [See also 03D05, 18B20.]**
68Q05	Models of computation (abstract processors, Turing machines, etc.)
68Q10	Modes of computation (concurrent, parallel, etc.)
68Q15	Complexity classes
68Q20	Nonnumerical algorithms {For numerical algorithms, see 65–XX; for combinatorics and graph theory, see 68Rxx.}
68Q25	Analysis of algorithms
68Q30	Algorithmic information theory (Kolmogorov complexity, etc.)
68Q35	VLSI algorithms
68Q40	Symbolic computation, algebraic computation
68Q45	Formal languages
68Q50	Grammars, rewriting systems
68Q55	Semantics
68Q60	Program verification
68Q65	Abstract data types
68Q70	Algebraic theory of automata [See also 20M35.]
68Q75	Stochastic and nondeterministic automata
68Q80	Tesselation automata, iterative arrays, cellular structure
68Q90	Transition nets
68Q99	None of the above, but in this section
68Rxx	**Discrete mathematics in relation to computer science**
68R05	Combinatorics
68R10	Graph theory [See also 05Cxx.]
68R99	None of the above, but in this section
68Sxx	**Mathematical linguistics [See also 03B65.]**
68S05	General
68S10	Semantics
68S15	Translation of natural languages
68Txx	**Artificial intelligence**
68T01	General
68T05	Learning and adaptive systems
68T10	Pattern recognition, speech recognition {For cluster analysis, see 62H30.}
68T15	Theorem proving [See also 03B35.]
68T20	Problem solving
68T25	Special programming languages
68T30	Knowledge representation
68T99	None of the above, but in this section
68Uxx	**Computing methodologies**
68U05	Computer graphics; computational geometry
68U10	Image processing
68U15	Text processing; mathematical typography
68U20	Simulation [See also 65Cxx.]
68U30	Other applications
68U99	None of the above, but in this section
70–XX	**MECHANICS OF PARTICLES AND SYSTEMS {For relativistic mechanics, see 83A05 and 83C10; for statistical mechanics, see 82–XX.}**
70–00	Handbooks, dictionaries, and other reference works
70–01	Elementary exposition; textbooks
70–02	Advanced exposition (research surveys, monographs, etc.)
70–03	Historical (must also be assigned at least one classification number from Section 01)
70–04	Explicit machine computation and programs (not the theory of computation or programming)
70–05	Experimental papers
70–06	Proceedings, conferences, etc.
70–08	Computational methods
70A05	**Axiomatics, foundations**
70Bxx	**Kinematics [See also 53A17.]**
70B05	Kinematics of a particle
70B10	Kinematics of a rigid body
70B15	Mechanisms and linkages, robots
70B99	None of the above, but in this section
70Cxx	**Statics**
70C05	Forces, fields
70C10	Potential energy
70C99	None of the above, but in this section
70Dxx	**Dynamics of a particle [See also 70Hxx.]**
70D05	Newtonian dynamics
70D10	Lagrangian dynamics
70D99	None of the above, but in this section
70Exx	**Dynamics of rigid bodies**
70E05	Motion of the gyroscope
70E10	Motion of projectiles and rockets
70E15	Motion of a general rigid body
70E20	Perturbation methods for Euler's equations
70E25	Poinsot method
70E99	None of the above, but in this section
70Fxx	**Dynamics of a system of particles, including celestial mechanics**
70F05	Two-body problem
70F07	Three-body problem
70F10	*n*-body problem
70F15	Celestial mechanics
70F20	Holonomic systems
70F25	Nonholonomic systems
70F30	Impulsive motion
70F35	Collisions
70F99	None of the above, but in this section
70Gxx	**General representations of dynamical systems [See also 58F05.]**
70G05	Riemannian geometry, tensorial methods [See also 53A45, 53A50, 53B20.]
70G10	Generalized coordinates
70G15	Space of events
70G20	Impulse-energy space
70G25	Configuration space
70G30	State space
70G35	Phase space
70G50	Classical field theories (general)
70G99	None of the above, but in this section
70Hxx	**Hamiltonian and Lagrangian mechanics [See also 58F05.]**
70H05	Hamilton's equations
70H10	Liouville's theorem
70H15	Canonical transformations
70H20	Hamilton-Jacobi equations
70H25	Hamilton's principle
70H30	Other variational principles
70H35	Lagrange's equation of motion
70H40	Relativistic dynamics
70H99	None of the above, but in this section
70Jxx	**Linear vibration theory**
70J05	Finite degree of freedom systems
70J10	Normal modes of vibrations
70J15	Conservative systems
70J20	Nonconservative systems
70J25	Stability
70J30	Free motions, parametric resonance
70J99	None of the above, but in this section
70Kxx	**Nonlinear motions [See also 34Cxx, 58Fxx.]**
70K05	Phase plane analysis
70K10	Limit cycles
70K15	Lyapunov theorems
70K20	Stability
70K25	Free motions (use only for secondary classification)
70K30	Nonlinear resonances
70K40	Forced motions
70K50	Transition to stochasticity [See also 58F13.]
70K99	None of the above, but in this section
70L05	**Random vibrations [See also 93Exx.]**
70Mxx	**Orbital mechanics**
70M05	Satellite problems
70M10	Orbital stability
70M99	None of the above, but in this section
70N05	**Exterior ballistics**
70P05	**Variable mass, rockets**
70Q05	**Control of mechanical systems [See also 49Exx, 90D25, 90D26, 93Cxx, 93Dxx.]**
73–XX	MECHANICS OF SOLIDS
73–00	Handbooks, dictionaries, and other reference works
73–01	Elementary exposition; textbooks
73–02	Advanced exposition (research surveys, monographs, etc.)
73–03	Historical (must also be assigned at least one classification number from Section 01)
73–04	Explicit machine computation and programs (not the theory of computation or programming)
73–05	Experimental papers
73–06	Proceedings, conferences, etc.
73–08	Computational methods
73A05	**Axiomatics, foundations**

73Bxx	**Continuum mechanics {For fluids, see 76Axx.}**
73B05	Constitutive equations
73B10	Isotropic functionals
73B15	Rotational groups [See also 22Exx.]
73B20	Simple materials
73B25	Multipolar stress theory
73B30	Thermodynamics of solids [See also 73U05; for gases and fluids, see 80–XX.]
73B35	Random materials
73B99	None of the above, but in this section
73Cxx	**Elasticity {For the biharmonic equation, see 31A30, 31B30; for acoustics, see 76Q05.}**
73C02	Classical linear elasticity
73C03	Complex variable techniques
73C05	Stress functions
73C10	Saint-Venant's principle
73C15	Uniqueness theorems
73C20	Strain energy methods
73C25	Thermal stress problems
73C30	Anisotropic bodies
73C35	Mixed boundary value problems [See also 45F05.]
73C40	Nonhomogeneous bodies and inclusions
73C45	Stress concentrations
73C50	Nonlinear elasticity
73C60	Variational methods [See also 35J85, 35K85, 35L85, 49A29.]
73C99	None of the above, but in this section
73Dxx	**Wave propagation in and vibrations of solids**
73D05	Impact and explosion problems [See also 76L05.]
73D10	Integral transforms
73D15	Dilatational and shear waves
73D20	Surface waves
73D25	Wave diffraction and dispersion
73D30	Linear vibrations [See also 70Jxx.]
73D35	Nonlinear vibrations [See also 70Kxx.]
73D40	Singular surfaces
73D50	Inverse problems [See also 35Lxx, 35R30.]
73D70	Random waves
73D99	None of the above, but in this section
73Exx	**Plasticity**
73E05	Yield criteria and flow rules
73E10	Method of successive approximations
73E15	Slip-line theory
73E20	Limit analysis
73E25	Creep
73E50	Time-dependent problems
73E99	None of the above, but in this section
73Fxx	**Viscoelasticity**
73F05	Creep and relaxation functions
73F10	Correspondence principle
73F15	Time-dependent boundary value problems
73F20	Aging of materials
73F25	Environmental-dependent materials
73F30	Viscoplasticity
73F99	None of the above, but in this section
73Gxx	**Finite deformations**
73G05	Finite elasticity
73G10	Strain energy functions
73G15	Finite viscoelasticity
73G20	Metal forming problems
73G99	None of the above, but in this section
73Hxx	**Stability (linear and nonlinear)**
73H05	Buckling
73H10	Dynamic stability
73H99	None of the above, but in this section
73Jxx	**Aero- and hydroelasticity**
73J05	Interaction of aerodynamics and elasticity
73J06	Interaction of hydrodynamics and elasticity
73J10	Vibrations, flutter
73J15	Divergence
73J99	None of the above, but in this section
73Kxx	**Structural mechanics**
73K03	Strings
73K05	Beams, columns, rods
73K10	Plates, discs
73K12	Vibrations of beams, plates, etc.
73K15	Membranes, shells
73K20	Composite structures and materials
73K25	Finite element methods
73K30	Other numerical methods
73K35	Random excitation
73K40	Optimization
73K99	None of the above, but in this section
73Lxx	**Theory of shells**
73L05	Non-Euclidean geometry, tensorial methods [See also 53A45.]
73L10	Anisotropic shells
73L15	Shell dynamics
73L20	Vibrations of shells
73L99	None of the above, but in this section
73Mxx	**Fractural mechanics**
73M05	Brittle fracture, cracks
73M10	Fatigue
73M15	Ductile fracture
73M20	Material instability
73M99	None of the above, but in this section
73Nxx	**Geophysical solid mechanics [See also 86–XX.]**
73N05	Global dynamics
73N10	Earthquake problems
73N99	None of the above, but in this section
73Pxx	**Biomechanics of solids**
73P05	Mathematical models of biological materials
73P10	Mechanics response
73P99	None of the above, but in this section
73Q05	**Soil mechanics**
73R05	**Electromagnetic elasticity**
73Sxx	**Micromechanics of solids**
73S05	Dislocation theory
73S99	Other micromechanics
73T05	**Contact problems**
73U05	**Thermomechanics of solids [See also 73B30.]**
76–XX	**FLUID MECHANICS {For general continuum mechanics, see 73Bxx, or other parts of 73–XX.}**
76–00	Handbooks, dictionaries, and other reference works
76–01	Elementary exposition; textbooks
76–02	Advanced exposition (research surveys, monographs, etc.)
76–03	Historical (must also be assigned at least one classification number from Section 01)
76–04	Explicit machine computation and programs (not the theory of computation or programming)
76–05	Experimental papers
76–06	Proceedings, conferences, etc.
76–08	Computational methods
76Axx	**Foundations, constitutive equations, rheology [See also 35L65.]**
76A02	Foundations
76A05	Non-Newtonian fluids
76A10	Viscoelastic fluids
76A99	None of the above, but in this section
76Bxx	**Incompressible inviscid fluids, potential theory**
76B05	Airfoil theory
76B10	Jets and cavities, cavitation, free-streamline theory, water-entry problems, hydrofoil theory, sloshing
76B15	Water waves, gravity waves; dispersion and diffraction, nonlinear interaction
76B20	Ship waves
76B25	Solitary and cnoidal waves
76B35	Random waves
76B40	Added mass computations
76B45	Capillarity
76B99	None of the above, but in this section
76Cxx	**Incompressible inviscid fluids, vorticity flows**
76C05	Vorticity flows
76C10	Internal waves
76C15	Atmospheric waves
76C20	Rossby waves
76C99	None of the above, but in this section
76Dxx	**Incompressible viscous fluids**
76D05	Navier-Stokes equations [See also 35Q10.]
76D07	Stokes flows
76D08	Lubrication theory
76D10	Boundary-layer theory
76D15	Boundary-layer separation and reattachment
76D20	Higher-order effects in boundary layers
76D25	Wakes and jets
76D30	Singular perturbation problems
76D33	Waves
76D35	Random waves
76D99	None of the above, but in this section
76Exx	**Hydrodynamic stability**
76E05	Stability of parallel flows
76E10	Inertial instability
76E15	Convective instability
76E20	Instability of geophysical and astrophysical flows
76E25	Magnetohydrodynamic and electrohydrodynamic instabilities
76E30	Nonlinear effects
76E99	None of the above, but in this section

76Fxx	**Turbulence [See also 58F13, 58F27, 60Gxx, 60Jxx.]**
76F05	Homogeneous isotropic turbulence
76F10	Shear flows
76F99	None of the above, but in this section
76Gxx	**General aerodynamics and subsonic flows**
76G05	Hodograph methods
76G10	Kármán-Tsien approximation
76G15	Iterative methods
76G20	Free-streamline theory
76G99	None of the above, but in this section
76H05	**Transonic flows, limit lines**
76Jxx	**Supersonic flows**
76J05	Hodograph methods
76J10	Method of characteristics
76J99	None of the above, but in this section
76K05	**Hypersonic flows**
76L05	**Shock waves and blast waves [See also 73D05.]**
76M05	**Nonhomentropic flows of compressible fluids**
76Nxx	**Compressible fluids and gas dynamics, general**
76N05	Boundary layer theory
76N10	Compressible fluids, general
76N15	Gas dynamics, general
76N99	None of the above, but in this section
76P05	**Rarefied gas flows, Boltzmann equation [See also 82A05.]**
76Q05	**Hydrodynamic sound, acoustics**
76Rxx	**Diffusion and convection [See also 60J60.]**
76R05	Forced convection
76R10	Free convection
76R50	Diffusion
76R99	None of the above, but in this section
76S05	**Flows in porous media; filtration; seepage**
76T05	**Two-phase and multiphase flows**
76U05	**Rotating fluids**
76V05	**Stratified and reacting fluids**
76W05	**Magnetohydrodynamics and electrohydrodynamics**
76X05	**Ionized gas flow in electromagnetic fields; plasmic flow**
76Y05	**Quantum hydrodynamics and relativistic hydrodynamics [See also 83C55, 85A30.]**
76Zxx	**Biological fluid mechanics**
76Z05	Physiological flows
76Z10	Biopropulsion in water and in air
76Z99	None of the above, but in this section
78-XX	OPTICS, ELECTROMAGNETIC THEORY {**For quantum optics, see 81K05.**}
78-00	Handbooks, dictionaries, and other reference works
78-01	Elementary exposition; textbooks
78-02	Advanced exposition (research surveys, monographs, etc.)
78-03	Historical (must also be assigned at least one classification number from Section 01)
78-04	Explicit machine computation and programs (not the theory of computation or programming)
78-05	Experimental papers
78-06	Proceedings, conferences, etc.
78-08	Computational methods
78A02	Foundations
78A05	Geometric optics
78A10	Physical optics
78A15	Electron optics
78A20	Space charge waves
78A25	Electromagnetic theory, general
78A30	Electro- and magnetostatics
78A35	Motion of charged particles
78A40	Waves and radiation
78A45	Diffraction, scattering [See also 34E20 for WKB methods.]
78A50	Antennas, wave-guides
78A55	Technical applications
78A60	Lasers, masers, optical bistability [See also 81K05.]
78A70	Biological applications [See also 92A09, 92A27.]
78A97	Mathematically heuristic optics and electromagnetic theory (must also be assigned at least one other classification number in this section)
78A99	Miscellaneous topics
80-XX	CLASSICAL THERMODYNAMICS, HEAT TRANSFER {**For thermodynamics of solids, see 73B30.**}
80-00	Handbooks, dictionaries, and other reference works
80-01	Elementary exposition; textbooks
80-02	Advanced exposition (research surveys, monographs, etc.)
80-03	Historical (must also be assigned at least one classification number from Section 01)
80-04	Explicit machine computation and programs (not the theory of computation or programming)
80-05	Experimental papers
80-06	Proceedings, conferences, etc.
80-08	Computational methods
80A05	Foundations
80A10	Classical thermodynamics
80A15	Thermodynamics of mixtures
80A20	Heat and mass transfer, heat flow
80A25	Combustion, interior ballistics
80A30	Chemical kinetics [See also 92A09, 92A40.]
80A32	Chemically reacting flows [See also 92A09, 92A40.]
80A50	Chemistry (general)
80A97	Mathematically heuristic classical thermodynamics (must also be assigned at least one other classification number in this section)
80A99	Miscellaneous topics
81-XX	QUANTUM MECHANICS
81-00	Handbooks, dictionaries, and other reference works
81-01	Elementary exposition; textbooks
81-02	Advanced exposition (research surveys, monographs, etc.)
81-03	Historical (must also be assigned at least one classification number from Section 01)
81-04	Explicit machine computation and programs (not the theory of computation or programming)
81-05	Experimental papers
81-06	Proceedings, conferences, etc.
81-08	Computational methods
81Bxx	**Axiomatics, foundations, philosophy**
81B05	General
81B10	Logical foundations of quantum mechanics
81B99	None of the above, but in this section
81Cxx	**General mathematical topics and methods in quantum mechanics**
81C05	Closed and approximate solutions to the Schrödinger, Dirac, Klein-Gordon and other quantum mechanical equations
81C10	Selfadjoint operator theory in quantum mechanics; essential selfadjointness of the Hamiltonian
81C12	Perturbation theory for operators
81C15	Perturbation theory for differential equations; WKB techniques
81C20	Probabilistic methods in quantum mechanics, including stochastic electrodynamics
81C25	Canonical transformations, symplectic phase-space considerations
81C30	Feynman integrals and graphs; applications of algebraic topology and algebraic geometry to these problems [See also 14D05, 32B30.]
81C35	Path integrals [See also 28C20, 58D30.]
81C40	General group representations motivated by physics but not covered by Section 81Gxx below; representations of concrete classical groups such as SL(n, C), U(p, q), etc. [See also 20C35, 22E70.]
81C99	None of the above, but in this section
81Dxx	**General quantum mechanics**
81D05	Commutation relations
81D07	Quantization
81D10	Bethe-Salpeter equation
81D15	Current algebra
81D20	Broken symmetries
81D25	Covariant wave equations
81D27	Spinor and twistor methods (use only for secondary classification)
81D30	Coherent states
81D99	None of the above, but in this section
81Exx	**Quantum field theory**
81E05	Axiomatic quantum field theory; operator algebras
81E08	Constructive quantum field theory
81E13	Yang-Mills and other gauge theories (classical and quantum aspects)
81E15	Renormalization theory (including perturbative, nonperturbative and renormalization group methods)
81E20	Field theory on curved space backgrounds [See also 83C47.]
81E25	Lattice theories
81E30	String and superstring theories (use only for secondary classification)
81E40	Two-dimensional field theories, conformal field theories, and other model field theories (use only for secondary classification)
81E99	None of the above, but in this section
81Fxx	**Scattering theories**
81F05	2-body potential scattering theory [See also 34E20 for WKB methods.]
81F10	n-body potential scattering theory
81F15	S-matrix theory, etc.
81F20	Particle scattering theories
81F30	Dispersion theory, dispersion relations
81F99	None of the above, but in this section
81Gxx	**Particle physics (this covers all kinds of particles and interactions)**
81G05	Strong interaction
81G10	Electromagnetic interaction
81G15	Weak interaction
81G20	Application of group theory to elementary particles, including grand unification and supersymmetry {For supergravity, see 83E50.}
81G25	Other elementary particle theory

81G30	Applications of group theory to nuclear physics
81G35	Other nuclear physics
81G40	Applications of group theory to atomic physics
81G45	Other atomic physics
81G50	Applications of group theory to molecular physics
81G55	Other molecular physics
81G99	None of the above, but in this section
81Hxx	**Quantum mechanics of many-body systems**
81H10	Nuclear structure [See also 81G35.]
81H20	Solid state band theory
81H99	None of the above, but in this section
81J05	**Superconductivity and superfluidity**
81K05	**Quantum optics**
81L05	**Quantum electrodynamics**
81M05	**Relativistic theory**
81N05	**Mathematically heuristic quantum mechanics (must also be assigned at least one other classification number in this section)**
82–XX	**STATISTICAL PHYSICS, STRUCTURE OF MATTER**
82–00	Handbooks, dictionaries, and other reference works
82–01	Elementary exposition; textbooks
82–02	Advanced exposition (research surveys, monographs, etc.)
82–03	Historical (must also be assigned at least one classification number from Section 01)
82–04	Explicit machine computation and programs (not the theory of computation or programming)
82–05	Experimental papers
82–06	Proceedings, conferences, etc.
82–08	Computational methods
82A05	Mathematical general statistical mechanics
82A15	Mathematical quantum statistical mechanics
82A25	Phase transitions; critical phenomena; renormalization group
82A30	Statistical thermodynamics [See also 80–XX.]
82A31	Stochastic methods
82A35	Irreversible thermodynamics, including Onsager-Machlup theory
82A40	Kinetic theory of gases
82A41	Random walks, random surfaces, etc. (use only for secondary classification)
82A42	Random media
82A43	Percolation
82A45	Plasma
82A50	Liquids
82A51	Polymers
82A55	Solids
82A57	Disordered materials, including liquid crystals and spin glasses
82A60	Crystals {For crystallographic group theory, see 20H15.}
82A65	Metals
82A67	Lattice statistics
82A68	Lattice models
82A69	Exactly solvable models (use only for secondary classification)
82A70	Transport processes [See also 85A25.]
82A75	Nuclear reactor theory
82A97	Mathematically heuristic statistical physics (must also be assigned at least one other classification number in this section)
82A99	Miscellaneous topics
83–XX	**RELATIVITY**
83–00	Handbooks, dictionaries, and other reference works
83–01	Elementary exposition; textbooks
83–02	Advanced exposition (research surveys, monographs, etc.)
83–03	Historical (must also be assigned at least one classification number from Section 01)
83–04	Explicit machine computation and programs (not the theory of computation or programming)
83–05	Experimental papers
83–06	Proceedings, conferences, etc.
83–08	Computational methods
83A05	**Special relativity**
83B05	**Observational and experimental questions**
83Cxx	**General relativity**
83C05	Einstein's equations
83C10	Equations of motion
83C15	Closed form solutions
83C20	Classes of solutions
83C25	Approximation procedures, weak fields
83C27	Lattice gravity and other discrete methods (use only for secondary classification)
83C30	Asymptotic procedures (radiation, news functions, etc.)
83C35	Gravitational waves
83C40	Groups of motions, invariance groups, conservation laws, etc.
83C45	Quantization of the gravitational field
83C47	Quantum field theory on curved space-times [See also 81E20.]
83C50	Electromagnetic fields
83C55	Hydrodynamics [See also 76Y05.]
83C60	Spinor and twistor methods (use only for secondary classification)
83C75	Space-time singularities; cosmic censorship; etc.
83C99	None of the above, but in this section
83D05	**Relativistic gravitational theories other than Einstein's**
83Exx	**Unified, higher-dimensional and "super" field theories**
83E05	Geometrodynamics
83E10	Asymmetric field theories
83E15	Five- and higher-dimensional theories
83E30	Geometric aspects of string and superstring theories (use only for secondary classification)
83E50	Supergravity {For supersymmetry, see 81G20.}
83E99	None of the above, but in this section
83F05	**Cosmology**
85–XX	**ASTRONOMY AND ASTROPHYSICS {For celestial mechanics, see 70F15.}**
85–00	Handbooks, dictionaries, and other reference works
85–01	Elementary exposition; textbooks
85–02	Advanced exposition (research surveys, monographs, etc.)
85–03	Historical (must also be assigned at least one classification number from Section 01)
85–04	Explicit machine computation and programs (not the theory of computation or programming)
85–05	Experimental papers
85–06	Proceedings, conferences, etc.
85–08	Computational methods
85A04	General
85A05	Galactic and stellar dynamics
85A10	Astronautics
85A15	Stellar structure
85A20	Stellar atmospheres
85A25	Radiative transfer
85A30	Hydrodynamic and hydromagnetic problems [See also 76Y05.]
85A35	Statistical astronomy
85A40	Cosmology {For relativistic cosmology, see 83F05.}
85A45	Radio astronomy
85A99	Miscellaneous topics
86–XX	**GEOPHYSICS [See also 73Nxx, 76U05, 76V05.]**
86–00	Handbooks, dictionaries, and other reference works
86–01	Elementary exposition; textbooks
86–02	Advanced exposition (research surveys, monographs, etc.)
86–03	Historical (must also be assigned at least one classification number from Section 01)
86–04	Explicit machine computation and programs (not the theory of computation or programming)
86–05	Experimental papers
86–06	Proceedings, conferences, etc.
86–08	Computational methods
86A04	General
86A05	Hydrology, hydrography, oceanography [See also 76B15, 76B20, 76B25, 76C15, 76E20, 76Q05, 76Rxx, 76U05.]
86A10	Meteorology [See also 76Bxx, 76C15, 76E20, 76N15, 76Q05, 76Rxx, 76U05, 76V05.]
86A15	Seismology [See also 73Dxx, 73Fxx, 73Mxx, 73Nxx, 73Q05.]
86A20	Potentials, prospecting [See also 76S05, 76W05.]
86A25	Geo-electricity and geomagnetism [See also 78A25.]
86A30	Geodesy, mapping problems
86A35	Atmospheric physics [See also 76C15, 76C20, 76E20, 76Rxx, 76U05, 76V05.]
86A60	Geological problems
86A99	Miscellaneous topics
90–XX	**ECONOMICS, OPERATIONS RESEARCH, PROGRAMMING, GAMES**
90–00	Handbooks, dictionaries, and other reference works
90–01	Elementary exposition; textbooks
90–02	Advanced exposition (research surveys, monographs, etc.)
90–03	Historical (must also be assigned at least one classification number from Section 01)
90–04	Explicit machine computation and programs (not the theory of computation or programming)
90–06	Proceedings, conferences, etc.
90Axx	**Mathematical economics {For econometrics, see 62P20.}**
90A05	Decision theory [See also 62Cxx, 90B50, 90D35.]
90A06	Preferences
90A07	Theory of group behavior
90A08	Social choice, voting
90A09	Portfolio theory and financial economics
90A10	Utility theory
90A11	Production models
90A12	Price theory

90A14	Equilibrium theory
90A15	Static economic models
90A16	Dynamic economic models
90A17	Multisectoral models
90A19	Statistical models
90A20	Economic time series analysis [See also 62M10.]
90A30	Applications to problems of human society (air pollution, etc.)
90A99	None of the above, but in this section
90Bxx	**Operations research and management science**
90B05	Logistics, inventory, storage
90B10	Flows in networks, deterministic
90B15	Flows in networks, probabilistic
90B20	Highway traffic
90B22	Queueing theory, service models, etc. [See also 60K25.]
90B25	Reliability and maintenance [See also 60K20, 62N05.]
90B30	Production theory
90B35	Scheduling theory
90B40	Search theory
90B50	Decision theory, including multiple objectives [See also 90A05, 90C31, 90D35.]
90B99	None of the above, but in this section
90Cxx	**Mathematical programming {For papers emphasizing calculus of variations or involving abstract spaces, see 49Dxx. For numerical methods, see 65K05.}**
90C05	Linear programming
90C06	Large scale linear programming
90C08	Special problems of linear programming (transportation and multi-index problems, etc.)
90C09	Boolean programming
90C10	Integer programming
90C11	Mixed integer programming
90C15	Programming in conditions of uncertainty, stochastic programming
90C20	Quadratic programming
90C25	Convex programming
90C27	Combinatorial programming
90C30	Nonlinear programming
90C31	Sensitivity, parametric programming, multi-objective programming
90C32	Fractional programming
90C33	Linear and nonlinear complementarity problems
90C35	Network programming, programming in networks
90C39	Dynamic programming [See also 49Cxx.]
90C40	Markov decision processes; Markov programming and Markov renewal programming
90C48	Programming in abstract spaces
90C50	Applications of mathematical programming
90C99	None of the above, but in this section
90Dxx	**Game theory [See also 49A45, 93E05.]**
90D05	2-person games
90D10	*n*-person games, noncooperative
90D12	*n*-person games, cooperative, solution concepts
90D13	Infinite games
90D15	Multistage games, stochastic [See also 93E05.]
90D20	Multistage games, recursive
90D25	Differential games
90D26	Pursuit and evasion games
90D30	Utility theory [See also 90A10.]
90D35	Decision theory [See also 62Cxx, 90A05, 90B50.]
90D40	Game theory models [See also 65Cxx, 68Qxx, 68U20.]
90D42	Positional and lattice games
90D45	Applications of game theory
90D99	None of the above, but in this section
92–XX	**BIOLOGY AND BEHAVIORAL SCIENCES**
92–00	Handbooks, dictionaries, and other reference works
92–01	Elementary exposition; textbooks
92–02	Advanced exposition (research surveys, monographs, etc.)
92–03	Historical (must also be assigned at least one classification number from Section 01)
92–04	Explicit machine computation and programs (not the theory of computation or programming)
92–06	Proceedings, conferences, etc.
92–08	Computational methods
92A05	General biology [See also 73–XX, 76–XX, in particular 73Pxx, 76Zxx.]
92A06	Biomechanics (general)
92A07	Medical applications of biology
92A08	Biophysics (general)
92A09	Physiology, biochemistry [See also 76–XX, in particular 76Zxx, and 78A70, 80A30, 80A32, 92A27, 92A40.]
92A10	Genetics
92A12	Problems relating to evolution
92A15	Population dynamics, epidemiology
92A17	Ecology
92A18	Animal behavior
92A20	Sociology
92A25	Psychology
92A27	Psychophysics, psychophysiology [See also 92A09.]
92A40	Chemistry [See also 80A30, 80A32, 92A05, 92A09.]
92A90	Other applications
93–XX	**SYSTEMS THEORY; CONTROL {For optimal control, see 49–XX.}**
93–00	Handbooks, dictionaries, and other reference works
93–01	Elementary exposition; textbooks
93–02	Advanced exposition (research surveys, monographs, etc.)
93–03	Historical (must also be assigned at least one classification number from Section 01)
93–04	Explicit machine computation and programs (not the theory of computation or programming)
93–06	Proceedings, conferences, etc.
93Axx	**General**
93A05	Axiomatic system theory
93A10	General systems
93A13	Hierarchical systems
93A15	Large scale systems
93A20	Cascaded systems
93A99	None of the above, but in this section
93Bxx	**Controllability, observability, and system structure**
93B05	Controllability
93B07	Observability
93B10	Canonical structure
93B15	Realizability of systems from input-output data
93B17	Transformation
93B20	Minimal systems representations
93B25	Algebraic methods
93B27	Geometric (including algebro-geometric) methods
93B28	Operator-theoretic methods
93B30	System identification
93B35	Sensitivity
93B40	Computational methods
93B50	Synthesis and design problems
93B55	Pole and zero placement problems
93B60	Eigenvalue problems
93B99	None of the above, but in this section
93Cxx	**Control systems, guided systems**
93C05	Linear
93C10	Nonlinear
93C15	Systems governed by ordinary differential equations
93C20	Systems governed by partial differential equations
93C22	Systems governed by integral equations
93C25	Systems in abstract spaces
93C30	Systems governed by functional relations other than differential or integral equations
93C35	Multivariable systems
93C40	Adaptive
93C45	Time-invariant
93C50	Time-dependent
93C55	Discrete-time
93C57	Sampled-data
93C60	Continuous-time
93C75	Applications of control theory
93C99	None of the above, but in this section
93Dxx	**Stability**
93D05	Lyapunov stability
93D10	Popov-type stability of feedback systems
93D15	Stabilization of systems by feedback
93D20	Asymptotic stability
93D25	Input-output approaches
93D99	None of the above, but in this section
93Exx	**Stochastic systems and control**
93E03	Stochastic systems, general
93E05	Stochastic games, stochastic differential games
93E10	Estimation and detection
93E11	Filtering
93E12	System identification
93E14	Data smoothing
93E15	Stochastic stability
93E20	Optimal stochastic control
93E25	Computational methods
93E99	None of the above, but in this section

4–XX	INFORMATION AND COMMUNICATION, CIRCUITS
94–00	Handbooks, dictionaries, and other reference works
94–01	Elementary exposition; textbooks
94–02	Advanced exposition (research surveys, monographs, etc.)
94–03	Historical (must also be assigned at least one classification number from Section 01)
94–04	Explicit machine computation and programs (not the theory of computation or programming)
94–06	Proceedings, conferences, etc.
94Axx	**Communication, information**
94A05	Communication theory [See also 60G35.]
94A11	Application of orthogonal functions in communication
94A12	Characterization of signals
94A13	Detection theory
94A14	Modulation and demodulation
94A15	Information theory, general [See also 62B10.]
94A17	Measures of information, entropy
94A24	Coding theorems (Shannon theory)
94A29	Source coding
94A34	Distortion theory
94A40	Channel theory
94A50	Theory of questionnaires
94A60	Cryptography [See also 11T71.]
94A99	None of the above, but in this section
94Bxx	**Algebraic theory of error-correcting codes [See also 11T71.]**
94B05	Linear codes, general
94B10	Convolutional codes
94B15	Cyclic codes
94B20	Burst-correcting codes
94B25	Combinatorial codes
94B30	Majority codes
94B35	Decoding
94B40	Arithmetic codes
94B45	Prefix, length-variable, comma-free codes
94B50	Synchronization error-correcting codes
94B60	Other types of codes
94B70	Error probability
94B99	None of the above, but in this section
94Cxx	**Circuits, networks**
94C05	Analytic circuit theory
94C10	Switching theory, applications of Boolean algebra [See also 06E30.]
94C15	Applications of graph theory [See also 05Cxx, 68Q90, 68R10.]
94C30	Applications of design theory [See also 05Bxx.]
94C99	None of the above, but in this section
94D05	**Fuzzy sets and logic (in connection with questions of Section 94) [See also 03B52, 03E72.]**

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